

IES Indoor Report

Photometric Filename:LED-PJ140B-1-600 SPEND14-BLACK.IES

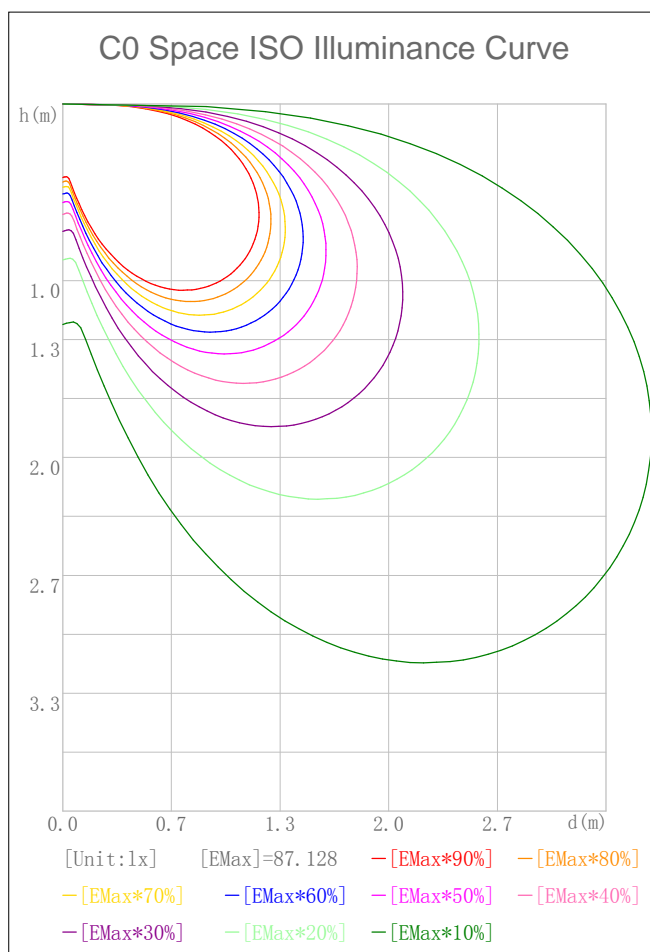
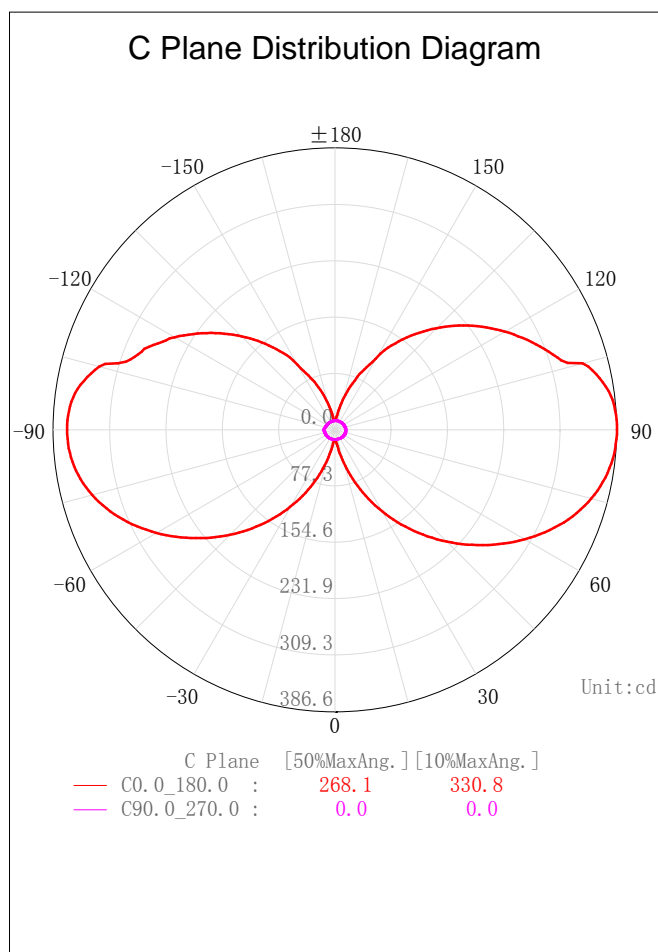
Indoor Luminaire Photometric Data

Description Information

Luminary Name:LED-PJ140B-1-600 SPEND14-BLACK		Lum. Catalog:	Test ID: 001
Lamp Name:		Lamp Catalog:	Test Date: 2019/08/01
Manufacture:		Shld. Ang(°):	Test Machine:GON-2000
Test Lab: Volnic IES	Frequency (Hz):		Lamp CCT (K): Ra:
Lum. Size (W*L*H):0.020m*0.610m*0.000m		Lum. Area (m2):0.012	Lum. W (kg): 1.000
Test System: C, γ	Test Step: C=30.0 γ=1.0	Temp. (°C): 25	Humidity (%): 50.0

Character Parameter

Lamp Speciality Parameter		Luminaire Speciality Parameter	
Rated Flux(lm): 1812.410	Luminary Flux(lm): 1812.413	Field Angle(10%Imax): 330.8(°)	
Rated Power(W):	Luminary Efficiency: 100.00%	Down Lumens&Percent: 958.147lm 52.87%	
Rated Voltage(V):	Luminary EER(lm/W): 75.897	Up Lumens&Percent: 854.266lm 47.13%	
Tested Power(W): 23.880	Max. Candela(cd): 386.578	S/MH: C0_a180=7.197 C90_270=1.568	
Lamps' Inside: 1	Max Cand@Ang.(°): C=0.0 γ=90.0	CIE Type: Semi-Indirect	
Tested Electrics(V, A, pf):240.1, 0.102, 0.969	Beam Angle(50%Imax): 268.1(°)	ErP Φuse(120°): 311.590lm	
Lamp Size (W*L*H):0.020m*0.610m*0.000m	Left=-132.5°, Right=135.6°	IRF (%): 93.953	



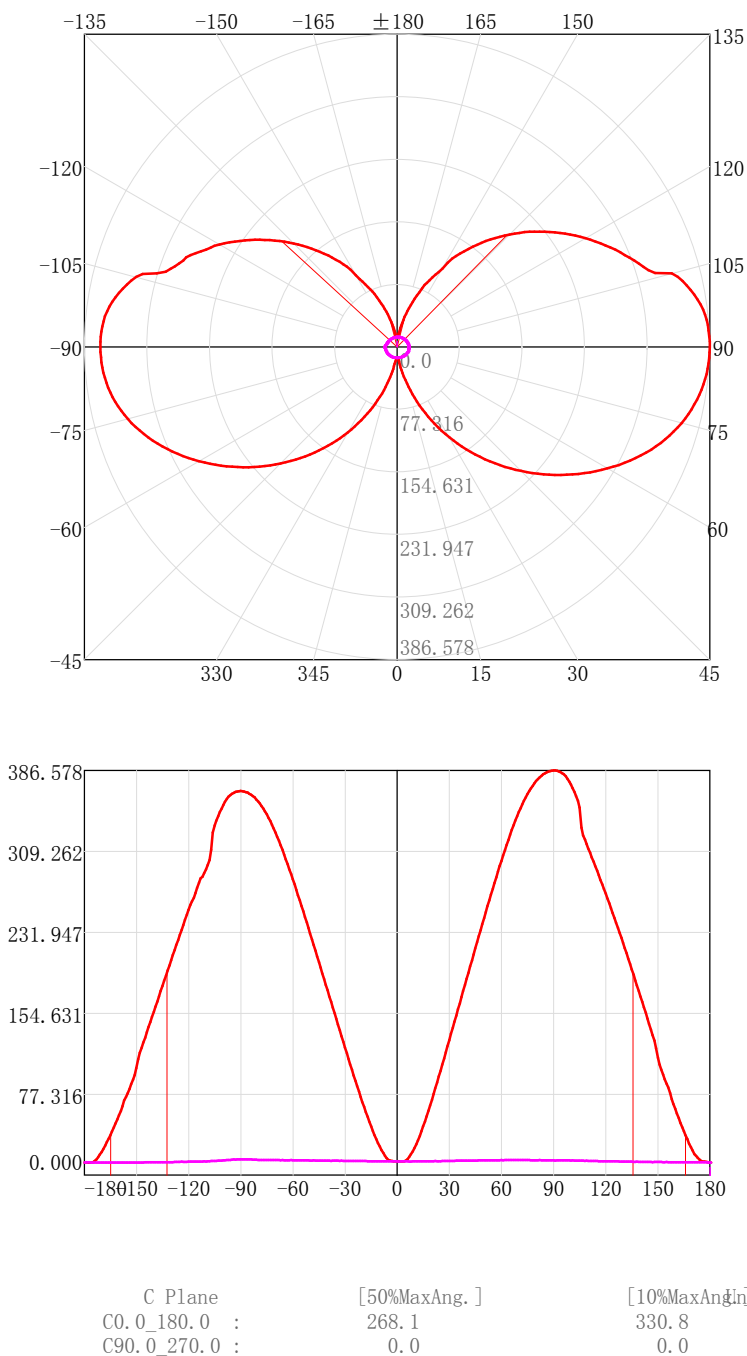
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2D Plane Light Intensity Distribution Curve

Lum. Name: LED-PJ140B-1-600 SPEND14-BLACK	Lum. Catalog:	Test ID: 001
Lamp Name:	Lamp Catalog:	Test Lab: Volnic IES
Manufacture:	Test Machine: GON-2000	Test Date: 2019/08/01

C Plane Distribution Diagram



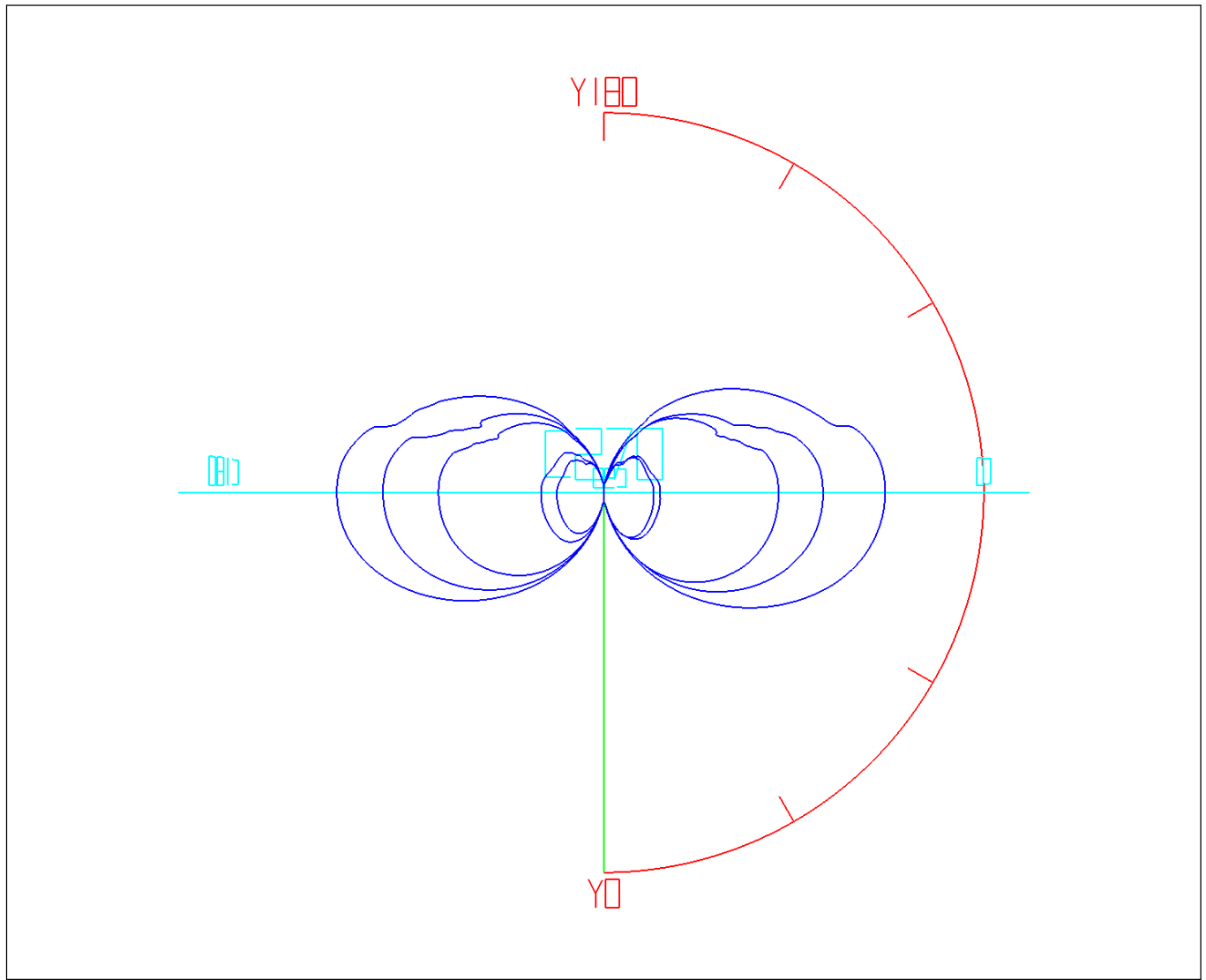
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3D Light Intensity Distribution Modal

Lum. Name: LED-PJ140B-1-600 SPEND14-BLACK	Lum. Catalog:	Test ID: 001
Lamp Name:	Lamp Catalog:	Test Lab: Volnic IES
Manufacture:	Test Machine:GON-2000	Test Date: 2019/08/01

3D Light Intensity Distribution Modal



Curves: 3D Model ——— Fixture ——— Vert. HUD ——— Hori. HUD ———
View Angles: Orient:0 Tilt:0 Roll:0 Spin:0

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Zonal Flux Tabulation

Zone (γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp	Zone (γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
0.0-1.0	0.01	0.01	0.00	0.00	47.0-48.0	10.62	167.35	0.59	9.23
1.0-2.0	0.04	0.05	0.00	0.00	48.0-49.0	11.05	178.41	0.61	9.84
2.0-3.0	0.07	0.12	0.00	0.01	49.0-50.0	11.49	189.90	0.63	10.48
3.0-4.0	0.09	0.21	0.01	0.01	50.0-51.0	11.93	201.83	0.66	11.14
4.0-5.0	0.12	0.33	0.01	0.02	51.0-52.0	12.37	214.19	0.68	11.82
5.0-6.0	0.15	0.48	0.01	0.03	52.0-53.0	12.80	227.00	0.71	12.52
6.0-7.0	0.18	0.66	0.01	0.04	53.0-54.0	13.24	240.24	0.73	13.26
7.0-8.0	0.23	0.89	0.01	0.05	54.0-55.0	13.69	253.93	0.76	14.01
8.0-9.0	0.28	1.16	0.02	0.06	55.0-56.0	14.13	268.06	0.78	14.79
9.0-10.0	0.33	1.50	0.02	0.08	56.0-57.0	14.57	282.62	0.80	15.59
10.0-11.0	0.40	1.89	0.02	0.10	57.0-58.0	15.00	297.63	0.83	16.42
11.0-12.0	0.47	2.36	0.03	0.13	58.0-59.0	15.44	313.06	0.85	17.27
12.0-13.0	0.56	2.92	0.03	0.16	59.0-60.0	15.87	328.93	0.88	18.15
13.0-14.0	0.66	3.58	0.04	0.20	60.0-61.0	16.29	345.22	0.90	19.05
14.0-15.0	0.77	4.34	0.04	0.24	61.0-62.0	16.72	361.94	0.92	19.97
15.0-16.0	0.89	5.23	0.05	0.29	62.0-63.0	17.13	379.07	0.95	20.92
16.0-17.0	1.02	6.25	0.06	0.34	63.0-64.0	17.54	396.61	0.97	21.88
17.0-18.0	1.17	7.42	0.06	0.41	64.0-65.0	17.94	414.55	0.99	22.87
18.0-19.0	1.32	8.74	0.07	0.48	65.0-66.0	18.33	432.89	1.01	23.88
19.0-20.0	1.49	10.23	0.08	0.56	66.0-67.0	18.72	451.61	1.03	24.92
20.0-21.0	1.68	11.91	0.09	0.66	67.0-68.0	19.10	470.71	1.05	25.97
21.0-22.0	1.87	13.78	0.10	0.76	68.0-69.0	19.46	490.17	1.07	27.05
22.0-23.0	2.08	15.86	0.11	0.88	69.0-70.0	19.81	509.99	1.09	28.14
23.0-24.0	2.30	18.16	0.13	1.00	70.0-71.0	20.15	530.14	1.11	29.25
24.0-25.0	2.53	20.69	0.14	1.14	71.0-72.0	20.48	550.61	1.13	30.38
25.0-26.0	2.77	23.46	0.15	1.29	72.0-73.0	20.79	571.41	1.15	31.53
26.0-27.0	3.03	26.49	0.17	1.46	73.0-74.0	21.10	592.51	1.16	32.69
27.0-28.0	3.30	29.79	0.18	1.64	74.0-75.0	21.39	613.90	1.18	33.87
28.0-29.0	3.58	33.37	0.20	1.84	75.0-76.0	21.67	635.57	1.20	35.07
29.0-30.0	3.87	37.24	0.21	2.05	76.0-77.0	21.93	657.50	1.21	36.28
30.0-31.0	4.17	41.41	0.23	2.28	77.0-78.0	22.18	679.68	1.22	37.50
31.0-32.0	4.48	45.90	0.25	2.53	78.0-79.0	22.41	702.09	1.24	38.74
32.0-33.0	4.81	50.70	0.27	2.80	79.0-80.0	22.62	724.71	1.25	39.99
33.0-34.0	5.14	55.84	0.28	3.08	80.0-81.0	22.82	747.52	1.26	41.24
34.0-35.0	5.48	61.32	0.30	3.38	81.0-82.0	22.99	770.51	1.27	42.51
35.0-36.0	5.83	67.16	0.32	3.71	82.0-83.0	23.14	793.65	1.28	43.79
36.0-37.0	6.19	73.35	0.34	4.05	83.0-84.0	23.27	816.92	1.28	45.07
37.0-38.0	6.56	79.91	0.36	4.41	84.0-85.0	23.38	840.31	1.29	46.36
38.0-39.0	6.93	86.84	0.38	4.79	85.0-86.0	23.47	863.78	1.30	47.66
39.0-40.0	7.32	94.16	0.40	5.20	86.0-87.0	23.54	887.32	1.30	48.96
40.0-41.0	7.71	101.88	0.43	5.62	87.0-88.0	23.58	910.90	1.30	50.26
41.0-42.0	8.11	109.99	0.45	6.07	88.0-89.0	23.61	934.52	1.30	51.56
42.0-43.0	8.51	118.50	0.47	6.54	89.0-90.0	23.63	958.15	1.30	52.87
43.0-44.0	8.93	127.43	0.49	7.03	90.0-91.0	23.63	981.77	1.30	54.17
44.0-45.0	9.34	136.77	0.52	7.55	91.0-92.0	23.61	1005.38	1.30	55.47
45.0-46.0	9.77	146.54	0.54	8.09	92.0-93.0	23.56	1028.94	1.30	56.77
46.0-47.0	10.19	156.73	0.56	8.65	93.0-94.0	23.48	1052.42	1.30	58.07

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Zonal Flux Tabulation - (Cont.)

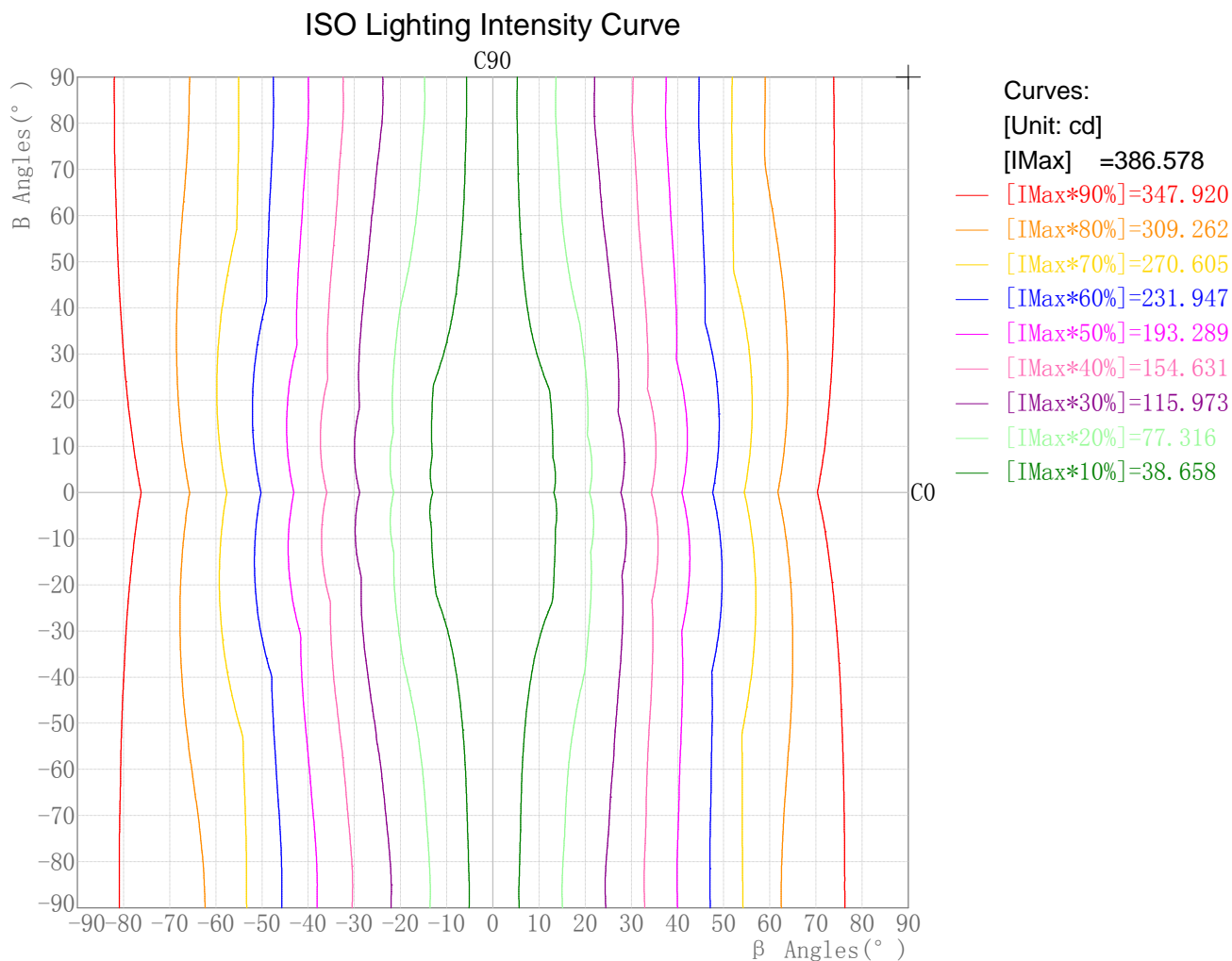
Zone (γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp	Zone (γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
94.0-95.0	23.36	1075.78	1.29	59.36	141.0-142.0	5.77	1747.14	0.32	96.40
95.0-96.0	23.20	1098.99	1.28	60.64	142.0-143.0	5.46	1752.60	0.30	96.70
96.0-97.0	23.01	1121.99	1.27	61.91	143.0-144.0	5.15	1757.74	0.28	96.98
97.0-98.0	22.77	1144.77	1.26	63.16	144.0-145.0	4.83	1762.58	0.27	97.25
98.0-99.0	22.51	1167.27	1.24	64.40	145.0-146.0	4.51	1767.08	0.25	97.50
99.0-100.0	22.21	1189.48	1.23	65.63	146.0-147.0	4.18	1771.27	0.23	97.73
100.0-101.0	21.90	1211.38	1.21	66.84	147.0-148.0	3.90	1775.17	0.22	97.95
101.0-102.0	21.57	1232.96	1.19	68.03	148.0-149.0	3.64	1778.81	0.20	98.15
102.0-103.0	21.23	1254.18	1.17	69.20	149.0-150.0	3.36	1782.17	0.19	98.33
103.0-104.0	20.81	1274.99	1.15	70.35	150.0-151.0	3.10	1785.27	0.17	98.50
104.0-105.0	20.28	1295.27	1.12	71.47	151.0-152.0	2.87	1788.14	0.16	98.66
105.0-106.0	19.66	1314.93	1.08	72.55	152.0-153.0	2.66	1790.80	0.15	98.81
106.0-107.0	19.04	1333.97	1.05	73.60	153.0-154.0	2.46	1793.26	0.14	98.94
107.0-108.0	18.54	1352.51	1.02	74.62	154.0-155.0	2.25	1795.52	0.12	99.07
108.0-109.0	18.10	1370.61	1.00	75.62	155.0-156.0	2.06	1797.57	0.11	99.18
109.0-110.0	17.61	1388.22	0.97	76.60	156.0-157.0	1.87	1799.44	0.10	99.28
110.0-111.0	17.14	1405.36	0.95	77.54	157.0-158.0	1.68	1801.12	0.09	99.38
111.0-112.0	16.72	1422.09	0.92	78.46	158.0-159.0	1.51	1802.64	0.08	99.46
112.0-113.0	16.29	1438.38	0.90	79.36	159.0-160.0	1.35	1803.99	0.07	99.54
113.0-114.0	15.83	1454.21	0.87	80.24	160.0-161.0	1.21	1805.19	0.07	99.60
114.0-115.0	15.48	1469.69	0.85	81.09	161.0-162.0	1.07	1806.27	0.06	99.66
115.0-116.0	15.21	1484.90	0.84	81.93	162.0-163.0	0.94	1807.21	0.05	99.71
116.0-117.0	14.89	1499.79	0.82	82.75	163.0-164.0	0.82	1808.03	0.05	99.76
117.0-118.0	14.52	1514.31	0.80	83.55	164.0-165.0	0.72	1808.75	0.04	99.80
118.0-119.0	14.14	1528.45	0.78	84.33	165.0-166.0	0.63	1809.38	0.03	99.83
119.0-120.0	13.76	1542.21	0.76	85.09	166.0-167.0	0.54	1809.92	0.03	99.86
120.0-121.0	13.37	1555.58	0.74	85.83	167.0-168.0	0.46	1810.38	0.03	99.89
121.0-122.0	12.97	1568.56	0.72	86.55	168.0-169.0	0.39	1810.77	0.02	99.91
122.0-123.0	12.56	1581.12	0.69	87.24	169.0-170.0	0.33	1811.10	0.02	99.93
123.0-124.0	12.14	1593.26	0.67	87.91	170.0-171.0	0.28	1811.39	0.02	99.94
124.0-125.0	11.73	1604.98	0.65	88.56	171.0-172.0	0.24	1811.62	0.01	99.96
125.0-126.0	11.30	1616.28	0.62	89.18	172.0-173.0	0.20	1811.82	0.01	99.97
126.0-127.0	10.84	1627.12	0.60	89.78	173.0-174.0	0.16	1811.98	0.01	99.98
127.0-128.0	10.41	1637.54	0.57	90.35	174.0-175.0	0.13	1812.12	0.01	99.98
128.0-129.0	10.03	1647.56	0.55	90.90	175.0-176.0	0.11	1812.22	0.01	99.99
129.0-130.0	9.63	1657.19	0.53	91.44	176.0-177.0	0.08	1812.31	0.00	99.99
130.0-131.0	9.26	1666.45	0.51	91.95	177.0-178.0	0.06	1812.37	0.00	100.00
131.0-132.0	8.93	1675.39	0.49	92.44	178.0-179.0	0.04	1812.40	0.00	100.00
132.0-133.0	8.61	1683.99	0.47	92.91	179.0-180.0	0.01	1812.41	0.00	100.00
133.0-134.0	8.28	1692.28	0.46	93.37					
134.0-135.0	7.96	1700.23	0.44	93.81					
135.0-136.0	7.64	1707.87	0.42	94.23					
136.0-137.0	7.32	1715.19	0.40	94.64					
137.0-138.0	7.01	1722.20	0.39	95.02					
138.0-139.0	6.70	1728.90	0.37	95.39					
139.0-140.0	6.39	1735.29	0.35	95.74					
140.0-141.0	6.08	1741.37	0.34	96.08					

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Rectangle ISO Lighting Intensity Diagram

Lum. Name: LED-PJ140B-1-600 SPEND14-BLACK	Lum. Catalog:	Test ID: 001
Lamp Name:	Lamp Catalog:	Test Lab: Volnic IES
Manufacture:	Test Machine: GON-2000	Test Date: 2019/08/01



Maximum Light Intensity(cd): 386.58
 Maximum Cand.@Angle: H=90.0°;V=90.0°

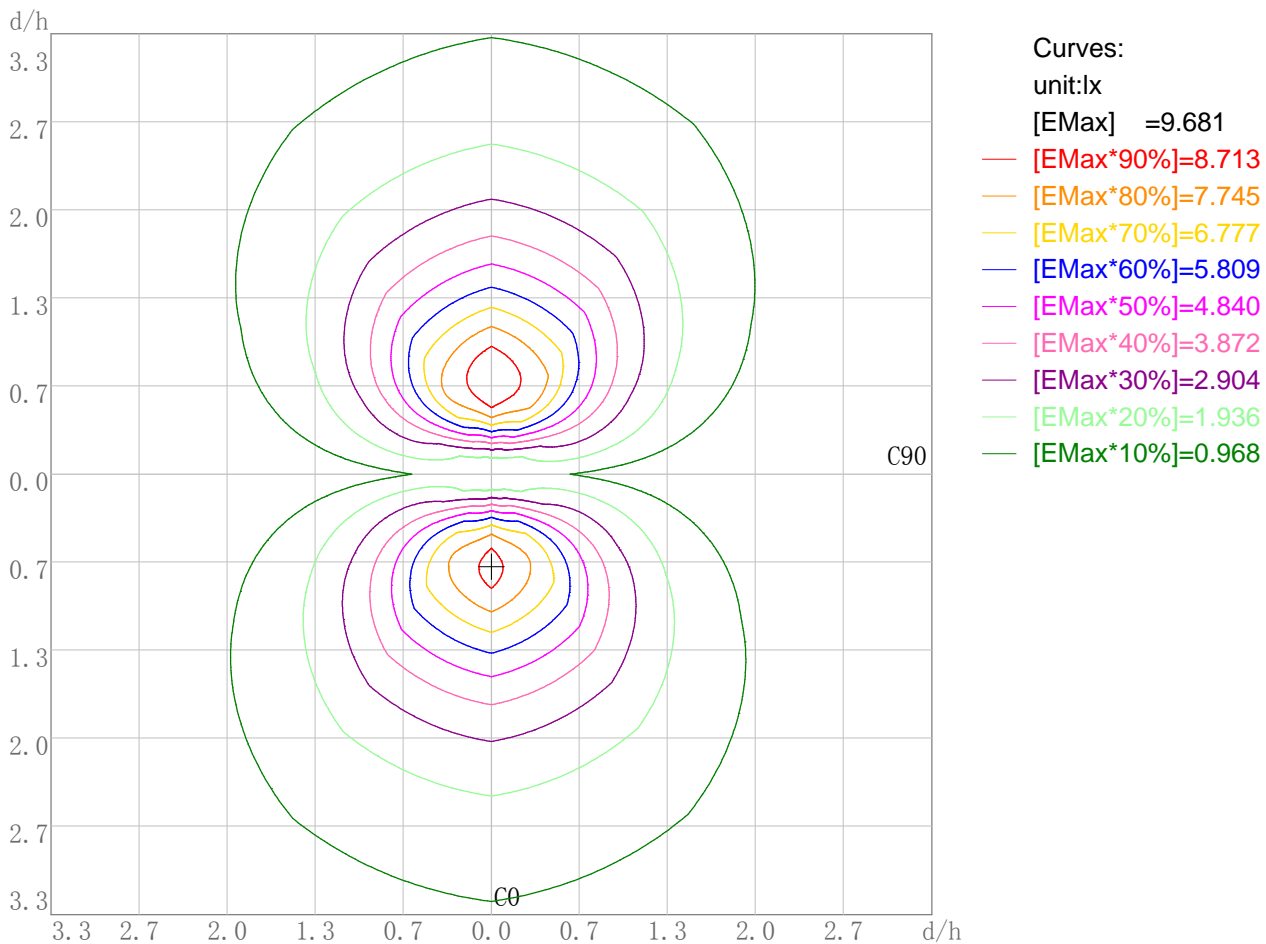
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Plane ISO-Illuminance Diagram

Lum. Name: LED-PJ140B-1-600 SPEND14-BLACK	Lum. Catalog:	Test ID: 001
Lamp Name:	Lamp Catalog:	Test Lab: Volnic IES
Manufacture:	Test Machine:GON-2000	Test Date: 2019/08/01

Plane ISO-Illuminance Curve



Working Plane Luminaire Mounting Height(m): 3.00
 Working Plane Maximum Illuminance(lx): 9.68
 Working Plane Maximum Illuminance Position(d/h):H0.0 V0.7

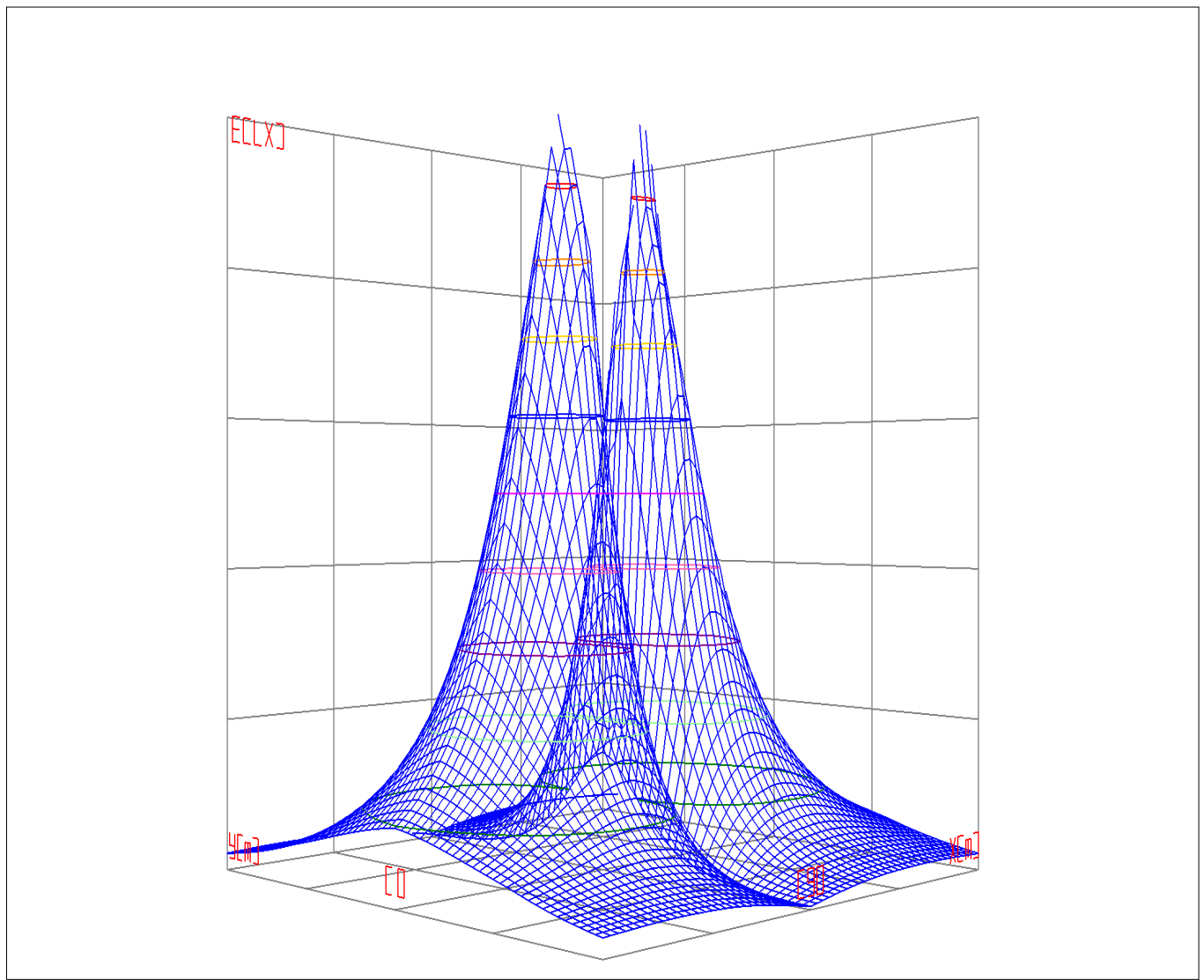
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3D Plane ISO Illuminance Diagram

Lum. Name: LED-PJ140B-1-600 SPEND14-BLACK	Lum. Catalog:	Test ID: 001
Lamp Name:	Lamp Catalog:	Test Lab: Volnic IES
Manufacture:	Test Machine:GON-2000	Test Date: 2019/08/01

3D Plane Illuminance Modal



Curves: 3D Model — 90% — 80% — 70% — 60% — 50% — 40% — 30% — 20% — 10% —
View Angles(deg): 0 Height(m): 3.0 Distance(m): 10.0

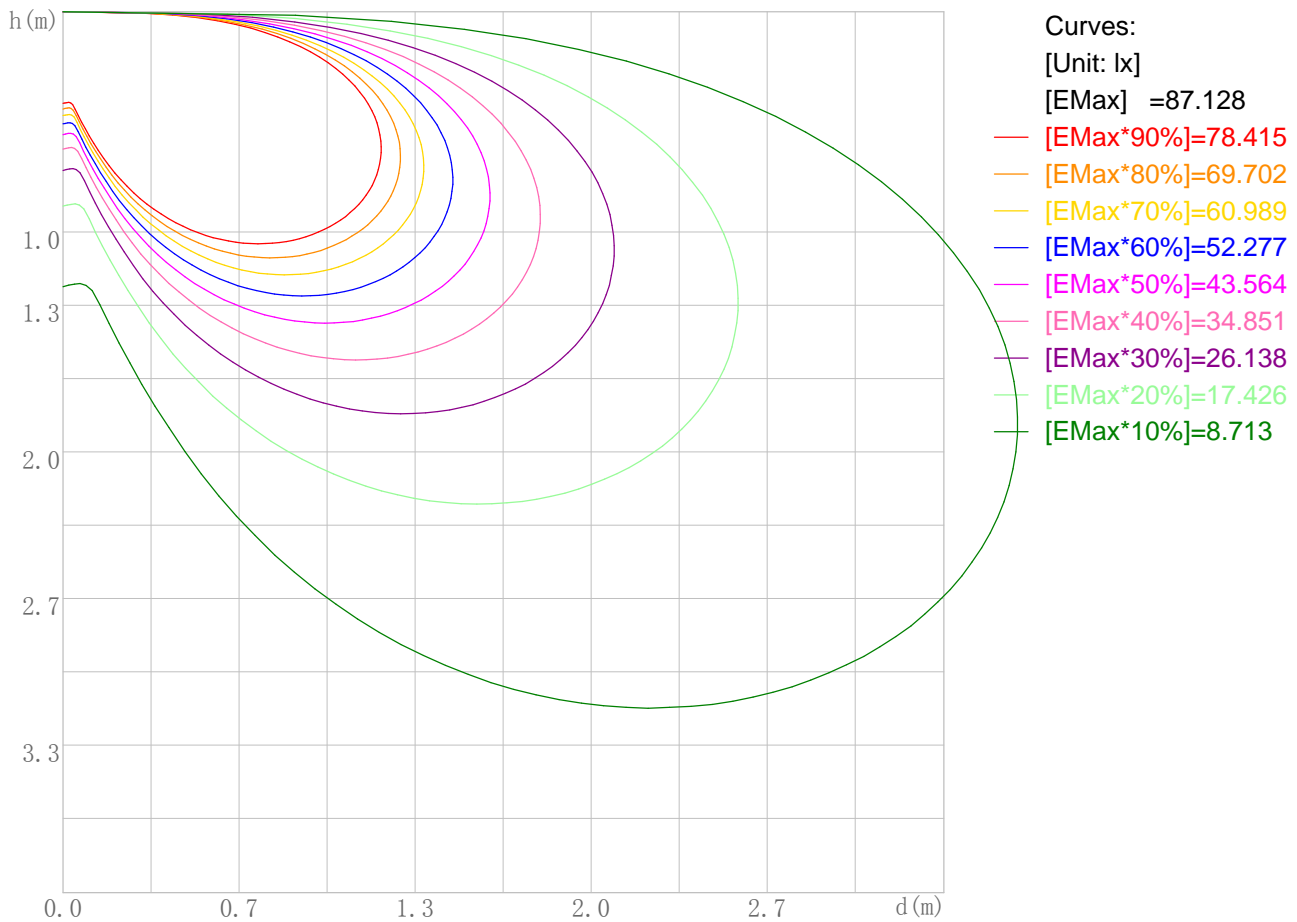
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Space ISO Illuminance Diagram

Lum. Name: LED-PJ140B-1-600 SPEND14-BLACK	Lum. Catalog:	Test ID: 001
Lamp Name:	Lamp Catalog:	Test Lab: Volnic IES
Manufacture:	Test Machine:GON-2000	Test Date: 2019/08/01

Space ISO Illuminance Curve



Space Plane Maximum Illuminance and @Angle:87.13lx,35.0deg
Plane Maximum Lighting Intensity and @Angle:386.578cd,0deg

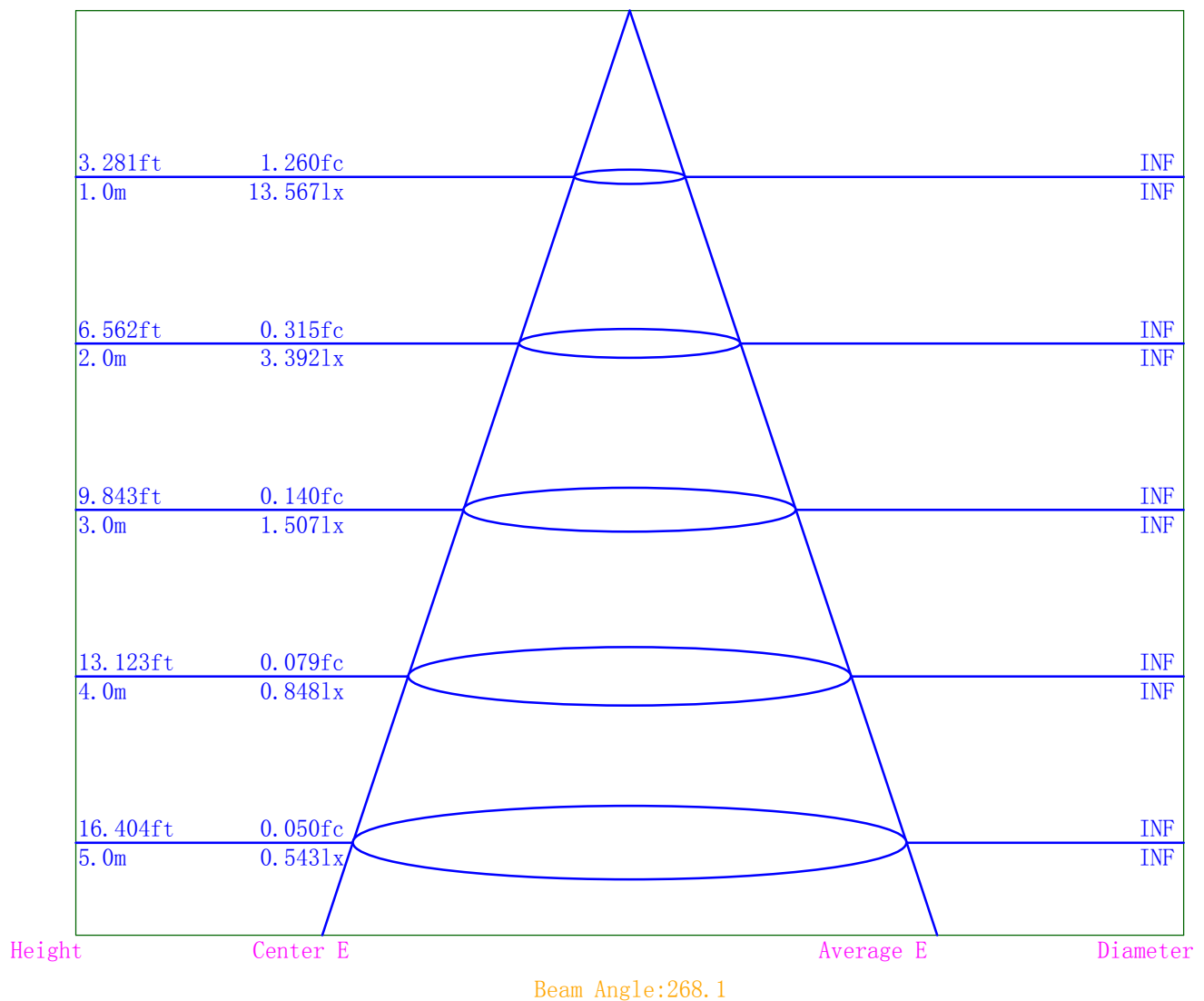
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Illuminance-Distance Diagram

Lum. Name: LED-PJ140B-1-600 SPEND14-BLACK	Lum. Catalog:	Test ID: 001
Lamp Name:	Lamp Catalog:	Test Lab: Volnic IES
Manufacture:	Test Machine:GON-2000	Test Date: 2019/08/01

Illuminance-Distance Curve



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Indoor Luminance Limiting Curves

Lum. Name: LED-PJ140B-1-600 SPEND14-BLACK	Lum. Catalog:	Test ID: 001
Lamp Name:	Lamp Catalog:	Test Lab: Volnic IES
Manufacture:	Test Machine:GON-2000	Test Date: 2019/08/01

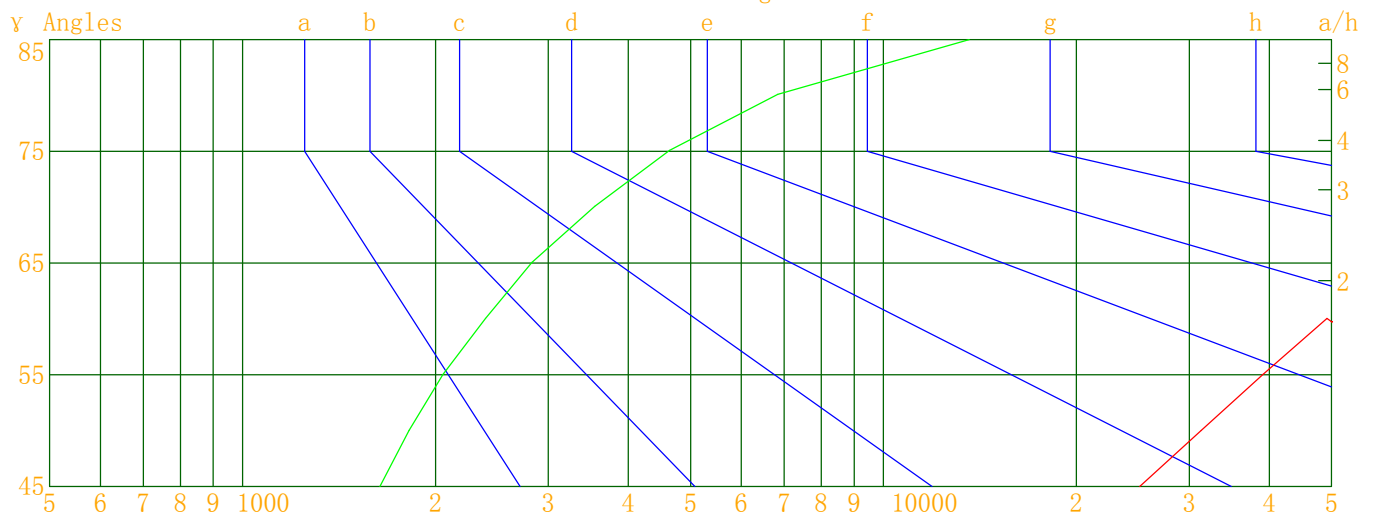
Glare Grade Table

GI	Quality	Using Illuminance							
		a	b	c	d	e	f	g	h
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E	a				2000	1000	500	<=300
			b	c	d	e	f	g	h

Luminance Table

Gama (deg)	45	50	55	60	65	70	75	80	85
C0	25124	31316	39089	49215	63054	83114	115309	177674	361047
C90	1639	1818	2055	2393	2829	3542	4640	6841	13598

Luminance Limiting Curve



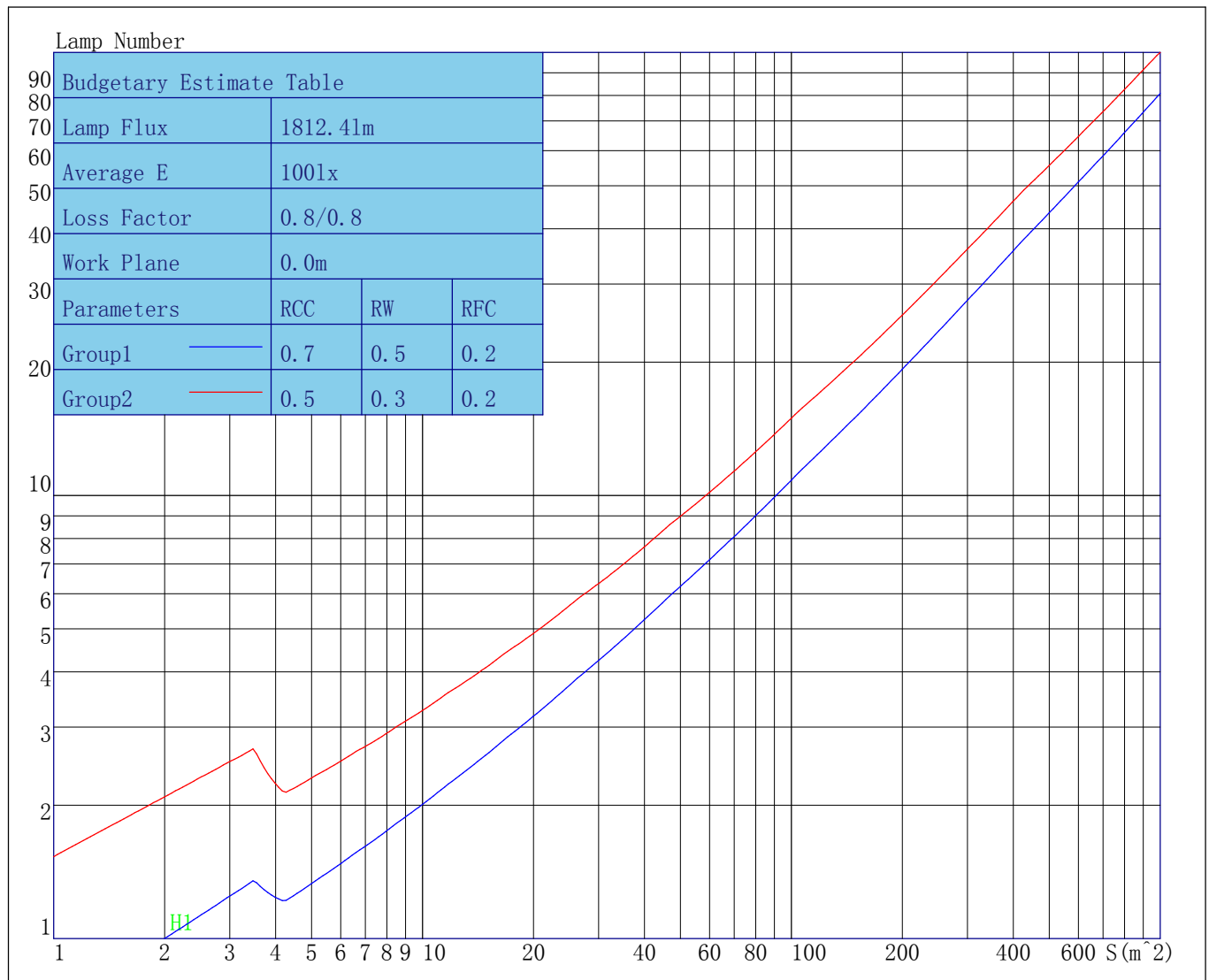
Luminous Size: Length(m)=0.610 Width(m)=0.020 Height(m)=0.000 Area(m²)=0.012200
 Luminous Type: Without Luminous Side
 Luminous Curves: C0-C180 Color: ——— C90-C270 Color: ———

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Indoor Budgetary Estimate Table

Lum. Name: LED-PJ140B-1-600 SPEND14-BLACK	Lum. Catalog:	Test ID: 001
Lamp Name:	Lamp Catalog:	Test Lab: Volnic IES
Manufacture:	Test Machine:GON-2000	Test Date: 2019/08/01



Parameters1: Rhocc = 0.7 Rhow = 0.5 Rhofc = 0.2 LLF = 0.8
 Parameters2: Rhocc = 0.5 Rhow = 0.3 Rhofc = 0.2 LLF = 0.8
 Average Illuminance(lx): 100 Cavity Height: H1(m) = 2

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Indoor Coefficient of Utilization Table

Lum. Name: LED-PJ140B-1-600 SPEND14-BLACK	Lum. Catalog:	Test ID: 001
Lamp Name:	Lamp Catalog:	Test Lab: Volnic IES
Manufacture:	Test Machine:GON-2000	Test Date: 2019/08/01

Coefficients of Utilization - Zonal Cavity Method																					
Coef.	Effective Floor Cavity Reflectance RFC=0.20																				
RhoCC (%)	80				70				50				30				10				0
RhoW (%)	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	Coefficient of Utilization(%)																				
0	108	108	108	108	100	100	100	100	85	85	85	71	71	71	59	59	59	53			
1	92	85	78	72	84	78	72	67	65	60	56	53	49	46	41	39	36	31			
2	81	70	61	54	74	64	56	50	53	47	41	42	38	33	33	29	26	21			
3	72	60	50	42	66	54	46	39	45	38	32	35	30	25	27	23	19	15			
4	65	51	41	34	59	47	38	31	38	31	25	30	25	20	23	19	15	11			
5	59	45	35	28	54	41	32	25	34	26	21	27	21	16	20	15	12	8			
6	54	40	30	23	49	36	28	21	30	23	17	23	18	13	18	13	10	7			
7	50	35	26	20	45	32	24	18	27	20	15	21	15	11	16	11	8	5			
8	46	32	23	17	42	29	21	15	24	17	12	19	14	10	14	10	7	4			
9	43	29	20	15	39	26	19	13	22	15	11	17	12	8	13	9	6	4			
10	40	26	18	13	36	24	17	12	20	14	9	16	11	7	12	8	5	3			

IES Indoor Report

Photometric Filename:LED-PJ140B-1-600 SPEND14-BLACK.IES

Unified Glare Rating Table

Lum. Name: LED-PJ140B-1-600 SPEND14-BLACK	Lum. Catalog:	Test ID: 001
Lamp Name:	Lamp Catalog:	Test Lab: Volnic IES
Manufacture:	Test Machine:GON-2000	Test Date: 2019/08/01

Unified Glare Rating Table

Ceiling RCC	0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30
Wall RW	0.50	0.30	0.50	0.30	0.30	0.50	0.30	0.50	0.30	0.30
Floor RFC	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Room Size	Vewed crosswise					Vewed endwise				
X=2H Y=2H	22.9	24.0	23.8	25.0	26.2	14.9	16.0	15.8	17.0	18.2
Y=3H	27.3	28.3	28.2	29.2	30.5	17.2	18.2	18.1	19.2	20.4
Y=4H	29.6	30.6	30.5	31.6	32.8	18.3	19.3	19.2	20.2	21.5
Y=6H	32.2	33.1	33.1	34.0	35.3	19.4	20.3	20.3	21.3	22.5
Y=8H	33.5	34.4	34.5	35.4	36.7	19.9	20.8	20.8	21.7	23.0
Y=12H	35.1	35.9	36.0	36.9	38.2	20.4	21.2	21.3	22.2	23.5
X=4H Y=2H	23.7	24.6	24.6	25.6	26.8	19.3	20.3	20.2	21.2	22.5
Y=3H	28.3	29.2	29.2	30.1	31.4	21.7	22.6	22.6	23.6	24.8
Y=4H	30.8	31.7	31.8	32.6	33.9	22.9	23.8	23.9	24.7	26.0
Y=6H	33.6	34.3	34.5	35.3	36.6	24.1	24.9	25.1	25.9	27.1
Y=8H	35.1	35.8	36.0	36.8	38.1	24.7	25.4	25.6	26.4	27.7
Y=12H	36.8	37.4	37.7	38.4	39.7	25.2	25.8	26.1	26.8	28.1
X=8H Y=4H	31.3	32.0	32.2	33.0	34.3	26.1	26.8	27.0	27.8	29.1
Y=6H	34.4	35.0	35.3	36.0	37.4	27.7	28.3	28.7	29.3	30.8
Y=8H	36.1	36.6	37.1	37.7	39.0	28.5	29.0	29.4	30.0	31.3
Y=12H	38.0	38.5	39.0	39.5	40.9	29.2	29.7	30.2	30.7	32.0
X=12H Y=4H	31.3	32.0	32.3	33.0	34.3	27.2	27.8	28.1	28.8	30.1
Y=6H	34.5	35.1	35.5	36.1	37.4	29.1	29.6	30.1	30.7	32.0
Y=8H	36.4	36.9	37.3	37.9	39.2	30.1	30.6	31.1	31.6	32.9
Variations with the objverver position at spacings										
S=1.0H	0.1/-0.1					0.3/-0.3				
S=1.5H	0.2/-0.3					0.3/-0.4				
S=2.0H	0.3/-0.4					0.2/-0.3				
Reduced UGR Table:										
Nordic Standard Table:	BKO					BKO				
Correction Value	8.3					8.5				

o the CIE Pub. 117, data has been corrected, refers to the lamp's lumens 8.2flm.

IES Indoor Report

Photometric Filename:LED-PJ140B-1-600 SPEND14-BLACK.IES

Candela Tabulation

V/H	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0	C270.0	C300.0	C330.0
Y 0.0	13.57	13.57	13.57	13.57	13.57	13.57	13.57	13.57	13.57	13.57	13.57	13.57
Y 1.0	13.42	13.22	13.35	13.29	13.99	13.81	13.49	13.20	13.63	13.37	14.04	13.86
Y 2.0	13.35	13.23	13.39	13.36	14.00	13.83	13.57	13.35	13.74	13.44	13.94	13.88
Y 3.0	13.32	13.39	13.42	13.41	14.05	14.04	13.84	13.34	13.77	13.40	13.97	13.91
Y 4.0	13.54	13.56	13.41	13.40	14.02	14.17	14.20	13.63	13.88	13.54	14.02	14.04
Y 5.0	14.13	13.57	13.29	13.36	14.08	14.49	14.81	13.91	13.94	13.35	13.98	14.13
Y 6.0	15.68	14.48	13.31	13.36	14.11	15.46	16.56	14.74	14.02	13.41	14.22	14.50
Y 7.0	17.86	15.92	13.40	13.28	14.26	16.63	18.77	15.60	14.22	13.42	14.26	15.68
Y 8.0	20.30	17.88	13.44	13.26	14.37	18.66	21.36	17.67	14.43	13.39	14.37	17.31
Y 9.0	23.01	20.06	13.63	13.38	14.64	20.82	24.18	19.82	14.69	13.32	14.52	19.23
Y 10.0	26.11	22.31	14.13	13.38	15.03	23.20	27.55	22.12	15.37	13.37	14.69	21.41
Y 11.0	29.55	25.01	14.96	13.37	15.37	25.74	30.84	24.67	15.84	13.42	15.06	23.84
Y 12.0	33.19	28.14	15.86	13.43	16.12	28.55	34.52	27.48	16.47	13.38	15.96	26.50
Y 13.0	37.57	31.24	17.07	13.47	17.17	31.40	38.51	30.63	17.67	13.47	16.89	29.40
Y 14.0	42.04	34.81	18.24	13.50	18.40	34.53	42.50	33.76	18.93	13.45	17.94	32.70
Y 15.0	46.76	38.50	19.41	13.53	19.58	37.88	46.80	37.32	20.30	13.50	18.95	36.13
Y 16.0	51.47	42.51	20.79	13.50	20.97	41.52	51.25	40.87	21.81	13.53	20.12	39.78
Y 17.0	56.36	46.63	22.30	13.44	22.22	45.04	55.84	44.59	23.37	13.58	21.33	43.77
Y 18.0	61.71	50.81	23.79	13.42	23.46	48.79	60.58	48.44	24.87	13.67	22.87	47.80
Y 19.0	66.74	55.18	25.44	13.49	24.99	52.69	65.29	52.52	26.43	13.60	24.24	51.92
Y 20.0	72.10	59.77	27.46	13.52	26.58	56.43	70.07	56.53	28.23	13.61	25.82	56.18
Y 21.0	77.55	64.07	29.37	13.46	28.34	60.50	75.00	60.49	30.10	13.66	27.68	60.66
Y 22.0	83.13	68.92	31.35	13.61	30.12	64.58	80.02	64.72	32.01	13.66	29.46	65.09
Y 23.0	88.71	73.29	33.51	13.57	31.81	68.59	85.17	69.03	34.02	13.61	31.21	69.62
Y 24.0	94.33	78.26	35.87	13.47	33.74	72.64	90.23	73.15	36.08	13.66	33.25	74.24
Y 25.0	100.04	82.80	38.15	13.57	35.71	77.07	95.35	77.61	38.25	13.76	35.30	78.81
Y 26.0	105.73	87.64	40.44	13.68	37.69	81.03	100.76	82.01	40.40	13.82	37.33	83.43
Y 27.0	111.54	92.71	42.94	13.67	39.80	85.57	105.91	86.60	42.53	13.85	39.46	88.09
Y 28.0	117.46	97.39	45.33	13.76	41.86	89.89	111.31	91.07	44.92	13.85	41.72	92.98
Y 29.0	123.24	102.35	47.75	13.77	43.98	94.13	116.78	95.48	47.19	13.86	44.02	97.62
Y 30.0	129.03	107.18	50.37	13.69	46.16	98.48	122.03	100.16	49.58	13.88	46.47	102.40
Y 31.0	135.01	112.14	53.05	13.76	48.39	102.96	127.56	104.76	52.04	13.87	48.63	107.22
Y 32.0	140.86	117.17	55.55	13.83	50.57	107.31	132.81	109.20	54.29	13.92	51.16	112.13
Y 33.0	146.62	121.99	58.16	13.86	52.78	112.00	138.32	114.02	56.73	13.85	53.53	116.90
Y 34.0	152.59	126.91	60.86	13.94	55.10	116.56	143.82	118.61	59.09	13.95	55.81	121.77
Y 35.0	158.51	131.84	63.38	13.91	57.19	120.98	149.36	123.34	61.70	13.93	58.31	126.66
Y 36.0	164.17	136.81	65.97	14.02	59.67	125.61	154.78	127.94	64.00	13.96	60.76	131.38
Y 37.0	170.13	141.83	68.64	13.99	61.96	129.96	160.15	132.69	66.49	13.96	63.25	136.33
Y 38.0	176.14	146.65	71.32	13.96	64.21	134.34	165.56	137.25	68.94	13.86	65.48	141.05
Y 39.0	181.94	151.61	73.80	14.06	66.62	138.93	170.95	142.02	71.45	13.97	67.92	145.92
Y 40.0	187.69	156.63	76.53	14.01	68.88	143.60	176.48	146.85	73.93	13.96	70.27	150.74
Y 41.0	193.59	161.46	79.12	14.04	71.13	148.06	181.93	151.58	76.43	13.94	72.63	155.58
Y 42.0	199.43	166.38	81.64	14.05	73.56	152.61	187.29	156.17	78.89	13.98	75.03	160.28
Y 43.0	205.10	171.09	84.26	14.13	75.94	157.19	192.74	160.76	81.45	14.02	77.46	164.95
Y 44.0	210.96	176.17	86.79	14.18	78.22	161.62	198.19	165.51	83.88	13.95	79.76	169.53
Y 45.0	216.73	181.01	89.33	14.14	80.36	166.33	203.56	170.15	86.48	14.05	81.93	174.37
Y 46.0	222.66	185.90	91.87	14.21	82.66	170.71	209.01	174.83	88.73	14.20	84.48	179.05

IES Indoor Report

Photometric Filename:LED-PJ140B-1-600 SPEND14-BLACK.IES

Candela Tabulation - (Cont.)

V/H	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0	C270.0	C300.0	C330.0
Y 47.0	228.30	190.60	94.41	14.26	84.96	175.17	214.50	179.53	91.29	14.07	86.73	183.70
Y 48.0	234.12	195.15	96.70	14.24	87.17	179.38	219.94	184.01	93.63	14.23	89.18	188.07
Y 49.0	240.01	199.82	99.14	14.36	89.34	183.81	225.30	188.58	96.10	14.14	91.38	192.61
Y 50.0	245.58	204.55	101.42	14.26	91.69	188.13	230.68	193.01	98.45	14.20	93.46	197.10
Y 51.0	251.21	209.13	103.79	14.33	94.00	192.57	236.10	197.30	100.75	14.22	95.60	201.51
Y 52.0	256.95	213.69	106.12	14.27	95.94	196.68	241.40	201.88	103.08	14.28	97.70	205.79
Y 53.0	262.53	217.95	108.34	14.33	98.14	200.75	246.63	206.24	105.29	14.33	99.83	210.09
Y 54.0	267.96	222.65	110.46	14.35	100.17	204.95	251.98	210.75	107.66	14.34	101.81	214.23
Y 55.0	273.53	227.05	112.84	14.38	102.18	209.15	257.32	215.08	109.96	14.34	103.90	218.43
Y 56.0	279.06	231.46	114.88	14.32	104.28	213.23	262.38	219.28	112.04	14.32	105.85	222.65
Y 57.0	284.50	235.62	116.90	14.40	106.16	217.45	267.50	223.76	114.03	14.44	107.80	226.77
Y 58.0	289.90	239.92	118.92	14.43	108.06	221.53	272.53	227.88	116.04	14.38	109.59	230.89
Y 59.0	295.13	244.14	120.70	14.44	109.82	225.50	277.65	232.07	118.10	14.42	111.39	234.82
Y 60.0	300.21	248.27	122.67	14.60	111.71	229.38	282.68	236.03	120.25	14.40	113.11	238.76
Y 61.0	305.43	252.15	124.46	14.47	113.46	233.24	287.52	240.18	121.99	14.58	114.64	242.72
Y 62.0	310.62	256.37	126.24	14.54	115.27	237.19	292.26	244.13	123.94	14.46	116.27	246.49
Y 63.0	315.47	260.22	127.91	14.63	116.71	241.05	297.13	248.11	125.70	14.47	117.90	250.23
Y 64.0	320.36	264.23	129.50	14.68	118.51	244.72	301.66	251.93	127.35	14.45	119.14	253.69
Y 65.0	325.10	267.95	130.96	14.59	119.85	248.37	306.35	255.56	128.91	14.50	120.58	257.43
Y 66.0	329.78	271.67	132.38	14.63	121.38	251.76	310.67	259.29	130.51	14.56	121.91	260.93
Y 67.0	334.34	275.08	133.99	14.69	122.86	255.33	315.18	262.89	132.13	14.50	123.29	264.34
Y 68.0	338.67	278.65	135.32	14.81	124.20	258.78	319.29	266.27	133.65	14.61	124.35	267.60
Y 69.0	342.76	281.81	136.49	14.72	125.48	261.95	323.42	269.53	135.12	14.56	125.60	270.76
Y 70.0	346.80	284.84	137.85	14.78	126.70	264.95	327.24	272.68	136.46	14.59	126.68	273.75
Y 71.0	350.57	287.75	139.13	14.71	127.90	267.76	331.14	275.65	137.86	14.60	127.59	276.43
Y 72.0	354.06	290.68	140.48	14.65	129.22	270.52	334.70	278.44	139.24	14.60	128.59	279.11
Y 73.0	357.67	293.27	141.78	14.72	130.48	273.23	338.17	281.33	140.60	14.55	129.64	281.64
Y 74.0	361.00	295.92	143.03	14.60	131.82	275.95	341.46	283.90	141.93	14.60	130.56	284.17
Y 75.0	364.10	298.28	144.17	14.65	132.99	278.39	344.58	286.48	143.23	14.55	131.41	286.40
Y 76.0	366.97	300.42	145.47	14.63	134.26	280.74	347.43	288.96	144.53	14.73	132.50	288.80
Y 77.0	369.59	302.69	146.58	14.46	135.46	282.82	350.13	291.05	145.71	14.73	133.33	290.79
Y 78.0	372.04	304.59	147.81	14.51	136.44	284.82	352.72	293.19	146.73	14.80	134.33	292.59
Y 79.0	374.24	306.32	148.92	14.50	137.58	286.69	355.04	294.95	147.82	14.76	135.17	294.16
Y 80.0	376.40	307.85	150.03	14.49	138.62	288.43	357.01	296.67	148.69	14.78	136.07	295.83
Y 81.0	378.32	309.11	150.73	14.45	139.64	290.01	358.89	298.27	149.72	14.87	136.88	297.11
Y 82.0	379.93	310.38	151.40	14.57	140.32	291.15	360.78	299.50	150.41	14.90	137.59	298.24
Y 83.0	381.44	311.51	152.00	14.45	141.00	292.41	362.09	300.58	151.14	14.98	138.05	299.22
Y 84.0	382.78	312.36	152.34	14.34	141.48	293.31	363.38	301.53	151.61	15.15	138.66	300.11
Y 85.0	383.90	313.11	152.64	14.46	141.81	294.04	364.42	302.45	151.98	15.24	138.81	300.81
Y 86.0	384.81	313.73	152.67	14.38	142.33	294.64	365.41	303.13	152.38	15.30	139.14	301.43
Y 87.0	385.43	314.13	152.64	14.40	142.18	295.17	365.95	303.62	152.34	15.31	139.21	301.86
Y 88.0	386.00	314.48	152.52	14.30	142.10	295.37	366.36	304.01	152.40	15.34	139.03	302.20
Y 89.0	386.42	314.67	152.55	14.25	142.31	295.67	366.80	304.27	152.30	15.25	138.96	302.36
Y 90.0	386.58	314.74	152.54	14.29	142.22	295.82	366.91	304.39	152.37	15.15	138.76	302.24
Y 91.0	386.55	314.57	152.45	14.17	142.28	295.68	366.86	304.27	152.30	15.26	138.71	302.21
Y 92.0	386.20	314.28	152.23	14.24	142.10	295.50	366.46	304.17	152.06	15.16	138.48	302.01
Y 93.0	385.68	313.79	151.51	14.32	141.30	295.05	365.97	303.67	152.00	15.07	138.13	301.54

IES Indoor Report

Photometric Filename:LED-PJ140B-1-600 SPEND14-BLACK.IES

Candela Tabulation - (Cont.)

V/H	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0	C270.0	C300.0	C330.0
Y 94.0	384.95	313.21	150.28	14.23	140.03	294.29	365.28	303.12	151.33	15.15	137.49	301.00
Y 95.0	383.94	311.98	148.65	14.24	138.48	293.26	364.26	302.34	149.93	14.94	136.13	300.23
Y 96.0	382.76	310.42	146.71	14.27	136.69	291.84	363.09	301.06	148.20	14.67	134.44	299.13
Y 97.0	380.97	308.68	144.38	14.38	134.83	290.00	361.37	299.33	146.28	14.65	132.28	297.53
Y 98.0	378.69	306.67	141.87	14.25	132.63	287.75	359.24	297.40	144.21	14.53	129.83	295.54
Y 99.0	375.95	304.13	139.25	14.29	130.40	285.23	356.57	294.89	141.72	14.34	127.43	293.25
Y 100.0	373.04	301.19	136.98	14.20	128.39	282.46	353.61	292.18	139.21	14.23	124.98	290.64
Y 101.0	369.79	298.06	134.94	14.23	126.41	279.53	350.18	289.20	136.59	14.11	122.69	287.64
Y 102.0	366.14	294.62	132.79	14.20	124.64	276.27	346.72	285.90	134.30	14.05	120.73	284.39
Y 103.0	362.18	290.28	131.11	14.09	123.14	272.47	342.76	282.42	132.12	13.91	118.72	280.95
Y 104.0	357.67	277.39	129.85	14.06	121.99	263.56	338.73	277.44	129.95	13.78	117.39	277.06
Y 105.0	351.26	268.46	128.89	14.01	120.93	255.23	334.05	261.53	128.19	13.68	116.07	272.18
Y 106.0	331.95	259.99	127.65	13.98	119.97	246.91	327.39	252.23	126.97	13.74	115.17	264.73
Y 107.0	324.63	254.40	126.75	13.94	119.02	241.64	310.86	244.43	125.83	13.65	114.15	256.21
Y 108.0	320.48	250.47	125.61	13.81	117.85	237.88	300.99	238.75	124.54	13.49	113.07	252.24
Y 109.0	316.30	242.72	124.37	13.91	116.73	229.46	296.10	234.80	123.17	13.30	111.89	246.20
Y 110.0	312.15	233.40	123.21	13.84	115.61	220.57	292.04	227.44	121.87	13.28	110.82	235.92
Y 111.0	307.90	228.79	121.70	13.77	114.25	216.54	288.51	219.07	120.65	13.44	109.66	229.66
Y 112.0	303.51	223.47	120.44	13.71	113.02	210.56	285.25	213.68	119.39	13.26	108.48	225.32
Y 113.0	299.56	215.25	119.08	13.79	111.78	202.52	283.48	208.33	117.81	13.20	107.30	216.78
Y 114.0	295.34	210.88	117.64	13.76	110.43	197.34	279.22	200.97	116.52	13.19	106.07	208.35
Y 115.0	290.94	213.88	116.02	13.65	108.85	199.85	274.47	198.06	115.00	13.08	104.79	204.97
Y 116.0	286.53	213.58	112.93	13.51	106.03	199.08	269.60	200.56	113.36	13.09	103.42	202.61
Y 117.0	282.01	210.61	109.43	13.51	102.48	196.43	265.07	201.01	110.95	13.10	101.87	200.08
Y 118.0	277.71	207.65	106.99	13.49	99.55	193.77	261.46	197.95	107.50	13.12	99.19	197.38
Y 119.0	273.47	204.51	105.24	13.55	97.25	191.05	258.27	194.93	104.30	13.05	95.68	194.57
Y 120.0	268.81	201.47	102.86	13.46	94.52	188.05	253.43	191.97	102.25	13.05	93.27	191.59
Y 121.0	264.45	198.41	99.34	13.51	91.32	185.21	248.71	188.85	99.82	12.92	91.34	188.63
Y 122.0	259.74	195.28	95.71	13.43	87.98	182.25	243.92	185.64	96.59	12.93	88.78	185.54
Y 123.0	255.23	191.81	91.73	13.48	84.71	179.15	239.12	182.64	92.88	12.94	85.04	182.48
Y 124.0	250.53	188.46	88.33	13.44	81.95	176.07	234.40	179.24	88.91	13.02	81.05	179.00
Y 125.0	245.82	185.10	86.03	13.37	79.88	172.94	229.54	176.08	85.31	12.88	77.35	175.68
Y 126.0	241.26	181.65	81.28	13.32	76.34	169.57	224.76	172.88	82.47	12.92	68.89	172.38
Y 127.0	236.30	178.17	73.93	13.39	70.21	166.36	220.04	169.40	80.42	12.81	63.11	168.89
Y 128.0	231.64	174.63	71.01	13.26	66.11	162.95	215.26	166.19	78.57	12.86	61.84	165.66
Y 129.0	226.66	171.05	69.65	13.18	64.08	159.46	210.30	162.93	72.77	12.66	58.87	162.07
Y 130.0	221.78	167.57	66.73	13.17	62.72	156.35	205.38	159.56	67.19	12.63	56.13	158.65
Y 131.0	216.92	164.03	64.78	13.18	61.74	153.08	200.53	156.23	65.10	12.65	54.98	155.07
Y 132.0	212.03	160.53	63.84	13.21	61.23	149.71	195.54	152.87	63.40	12.55	54.80	151.84
Y 133.0	206.79	157.15	63.07	13.12	60.47	146.38	190.61	149.61	61.43	12.62	54.03	148.52
Y 134.0	201.61	153.44	61.67	13.00	59.42	143.08	185.70	146.09	60.02	12.60	53.00	145.32
Y 135.0	196.49	149.84	60.50	13.05	58.22	139.47	180.80	142.60	58.77	12.68	52.19	141.79
Y 136.0	191.50	146.18	59.49	12.98	57.32	135.93	175.89	138.98	57.44	12.51	51.62	138.38
Y 137.0	186.26	142.39	58.49	12.97	56.21	132.43	170.92	135.49	56.28	12.47	50.86	134.98
Y 138.0	181.13	138.57	57.22	13.00	55.15	128.78	165.97	131.88	55.21	12.52	49.83	131.61
Y 139.0	176.04	134.84	55.78	12.88	53.97	125.23	161.00	128.34	54.16	12.43	48.81	128.09
Y 140.0	170.79	130.84	53.81	12.87	52.74	121.55	156.10	124.72	52.99	12.44	47.73	124.53

IES Indoor Report

Photometric Filename:LED-PJ140B-1-600 SPEND14-BLACK.IES

Candela Tabulation - (Cont.)

V/H	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0	C270.0	C300.0	C330.0
Y 141.0	165.62	126.94	51.43	12.94	51.39	118.40	151.29	121.52	51.85	12.47	45.89	120.68
Y 142.0	160.38	123.01	49.23	12.92	50.06	114.71	146.36	118.24	50.56	12.40	43.67	116.70
Y 143.0	155.11	118.64	46.89	12.86	48.79	110.57	141.48	114.69	49.13	12.52	41.58	112.35
Y 144.0	149.79	114.26	44.77	12.88	47.30	105.81	136.50	110.32	47.78	12.39	39.45	108.15
Y 145.0	144.53	108.92	42.47	12.68	45.83	101.03	131.51	105.19	46.49	12.46	37.43	103.82
Y 146.0	139.20	101.59	40.40	12.76	44.47	94.78	126.73	99.33	44.87	12.31	35.47	96.94
Y 147.0	133.99	96.21	38.40	12.68	42.85	89.94	121.89	93.51	43.56	12.31	33.68	91.56
Y 148.0	128.62	92.63	36.49	12.80	41.26	86.47	117.00	89.02	42.15	12.33	31.82	87.98
Y 149.0	121.30	88.87	34.57	12.81	39.89	83.03	111.02	85.26	40.58	12.27	30.16	84.58
Y 150.0	112.14	85.35	32.62	12.74	38.33	79.72	102.38	81.69	39.17	12.26	28.54	81.26
Y 151.0	105.87	81.64	31.14	12.71	36.88	76.36	95.73	78.50	37.62	12.28	25.82	78.07
Y 152.0	101.08	78.63	29.44	12.76	35.28	73.13	91.36	75.07	36.28	12.23	23.86	75.03
Y 153.0	96.24	75.28	27.86	12.64	33.84	70.38	87.01	72.00	34.53	12.14	22.81	72.28
Y 154.0	91.57	70.95	26.25	12.63	32.37	66.86	82.54	69.30	33.10	12.19	21.91	68.77
Y 155.0	87.28	66.23	24.79	12.69	30.79	62.98	78.38	65.81	31.64	12.16	20.99	63.64
Y 156.0	83.89	61.42	23.21	12.62	29.32	59.54	74.74	61.97	30.16	12.14	19.77	58.87
Y 157.0	78.67	56.77	22.01	12.58	27.79	56.20	71.41	58.44	28.60	12.30	18.74	54.29
Y 158.0	72.74	52.08	20.77	12.60	26.34	53.00	66.15	55.22	27.15	12.18	17.63	49.99
Y 159.0	68.04	47.70	19.71	12.56	24.88	49.56	61.56	51.91	25.62	12.22	16.74	45.86
Y 160.0	63.51	43.70	18.91	12.60	23.52	46.45	57.44	48.65	24.11	12.24	16.00	41.76
Y 161.0	59.00	39.69	17.96	12.54	22.24	43.28	53.51	45.55	22.65	12.21	15.40	38.08
Y 162.0	54.56	36.37	17.21	12.65	21.01	39.78	49.42	42.21	21.54	12.28	14.92	34.53
Y 163.0	50.20	33.23	16.39	12.52	19.88	36.74	45.78	38.93	20.32	12.21	14.36	28.73
Y 164.0	45.95	29.97	15.70	12.46	18.64	33.75	41.92	36.06	19.12	12.26	13.99	25.64
Y 165.0	42.21	27.04	15.08	12.55	17.43	30.78	38.21	33.22	18.04	12.32	13.39	24.50
Y 166.0	38.31	23.99	14.38	12.46	16.30	27.80	35.22	30.21	16.74	12.21	13.03	22.56
Y 167.0	34.43	21.70	13.96	12.40	15.16	24.98	31.81	27.23	15.81	12.12	12.58	20.49
Y 168.0	30.38	19.50	13.42	12.41	14.41	22.64	28.42	24.58	14.76	12.23	12.23	18.37
Y 169.0	26.96	17.41	13.14	12.39	14.06	20.40	24.94	22.28	13.90	12.23	12.06	16.66
Y 170.0	23.81	16.37	13.01	12.42	13.70	18.37	22.43	20.11	13.46	12.18	11.94	15.44
Y 171.0	20.20	14.95	12.87	12.50	13.33	16.33	20.01	18.19	13.22	12.24	11.87	14.40
Y 172.0	18.58	13.89	12.90	12.47	13.11	14.43	17.55	16.19	13.02	12.17	11.73	13.56
Y 173.0	16.67	13.19	12.90	12.43	13.00	13.17	15.42	14.59	12.79	12.23	11.81	12.77
Y 174.0	14.97	12.55	12.73	12.42	12.97	12.60	13.61	13.67	12.67	12.32	11.91	12.35
Y 175.0	13.72	12.44	12.79	12.39	12.75	12.17	12.45	13.15	12.67	12.27	11.81	12.26
Y 176.0	13.25	12.35	12.66	12.40	12.72	12.01	12.28	12.81	12.55	12.24	11.86	12.19
Y 177.0	13.09	12.34	12.51	12.40	12.57	11.78	12.28	12.71	12.68	12.38	11.85	12.02
Y 178.0	12.70	12.23	12.66	12.41	12.47	11.79	12.23	12.51	12.49	12.47	11.76	12.00
Y 179.0	12.56	12.25	12.51	12.36	12.35	11.70	12.44	12.44	12.49	12.48	11.95	11.98
Y 180.0	12.29	12.29	12.29	12.29	12.29	12.29	12.29	12.29	12.29	12.29	12.29	12.29