

IES Indoor Report

Photometric Filename:LEDBATTEN60W-4K-2017-02-16.IES

Indoor Luminaire Photometric Data

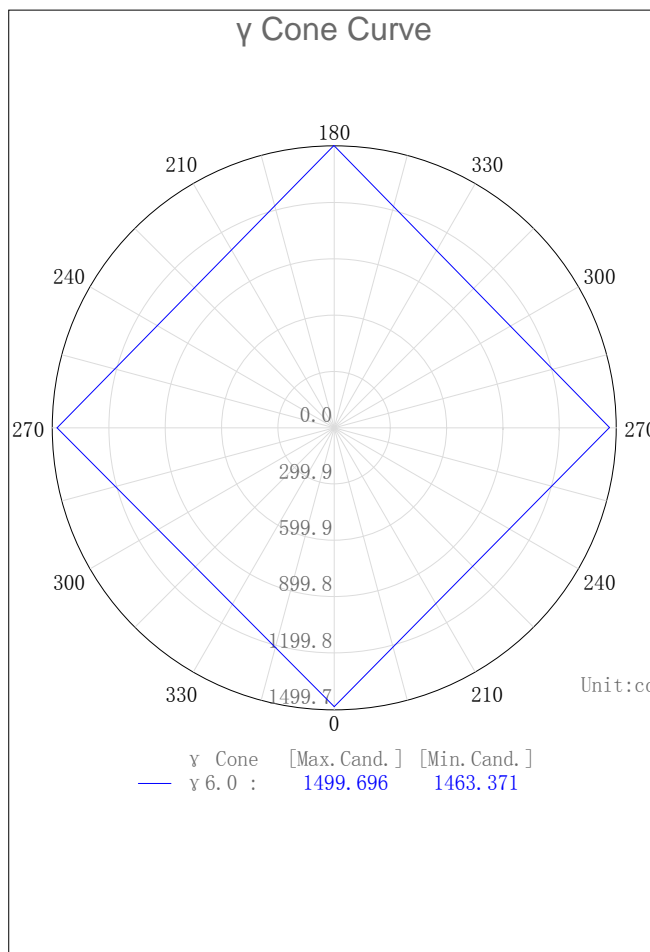
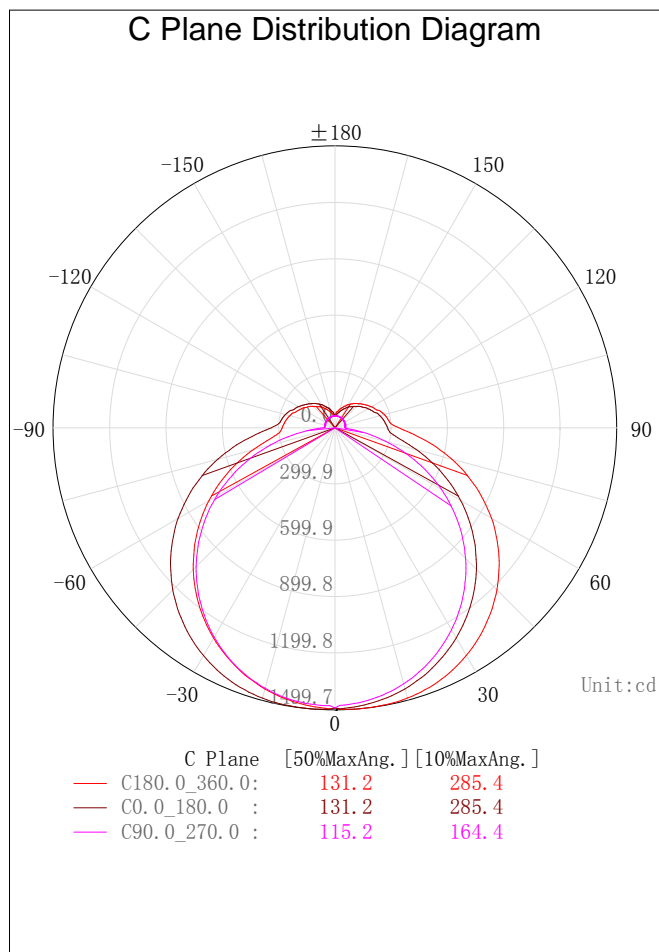
Description Information

Lum. Name: LEDBATTEN60W-4K	Lum. Catalog: LED BATTEN	Test ID:
Lamp Name: 4000K	Lamp Catalog: SMD2835	Test Date: 2017/02/16
Manufacture:	ShldAngle(°):	Test Machine:GON-2000
Test Lab:	Frequency (Hz):	Lamp CCT (K): Ra:
Lum. Size (W*L*H): 0.080m*1.500m*0.065m	Lum. Area (m2): 0.218	Lum. W (kg): 5.000
Test System: C, γ	Test Step: C=90.0 γ=1.0	Temp. (°C): 25
		Humidity (%):

Character Parameter

Lamp Speciality Parameter	Luminaire Speciality Parameter	
Rated Flux(lm): 5774.350	Luminaire Flux: 5774.354lm	Field Angle(10%Imax): 285.4
Rated Power(W):	Luminaire Efficiency: 100.00%	Down Lumens&Percent: 4941.628lm 85.58%
Rated Voltage(V):	Luminaire EER(lm/W): 93.255	Up Lumens&Percent: 832.726lm 14.42%
Tested Power(W): 61.920	Max. Cand. (cd): 1499.696	S/MH: C0_a180=1.341 C90_270=1.261
Lamps' Inside: 1	Max Cand@Ang. (°): C=180.0 γ=6.0	CIE Type: General Diffuse
Tested Electric:U=239.8V, I=0.265A, PF=0.000	Beam Angle(50%Imax): 131.2	ErP Φ use(120°): 3591.542lm
Lamp Size (W*L*H): 0.080m*1.500m*0.065m	Left=-61.0 Right=70.1	IRF: 105.799%

Lighting Distribution Diagram



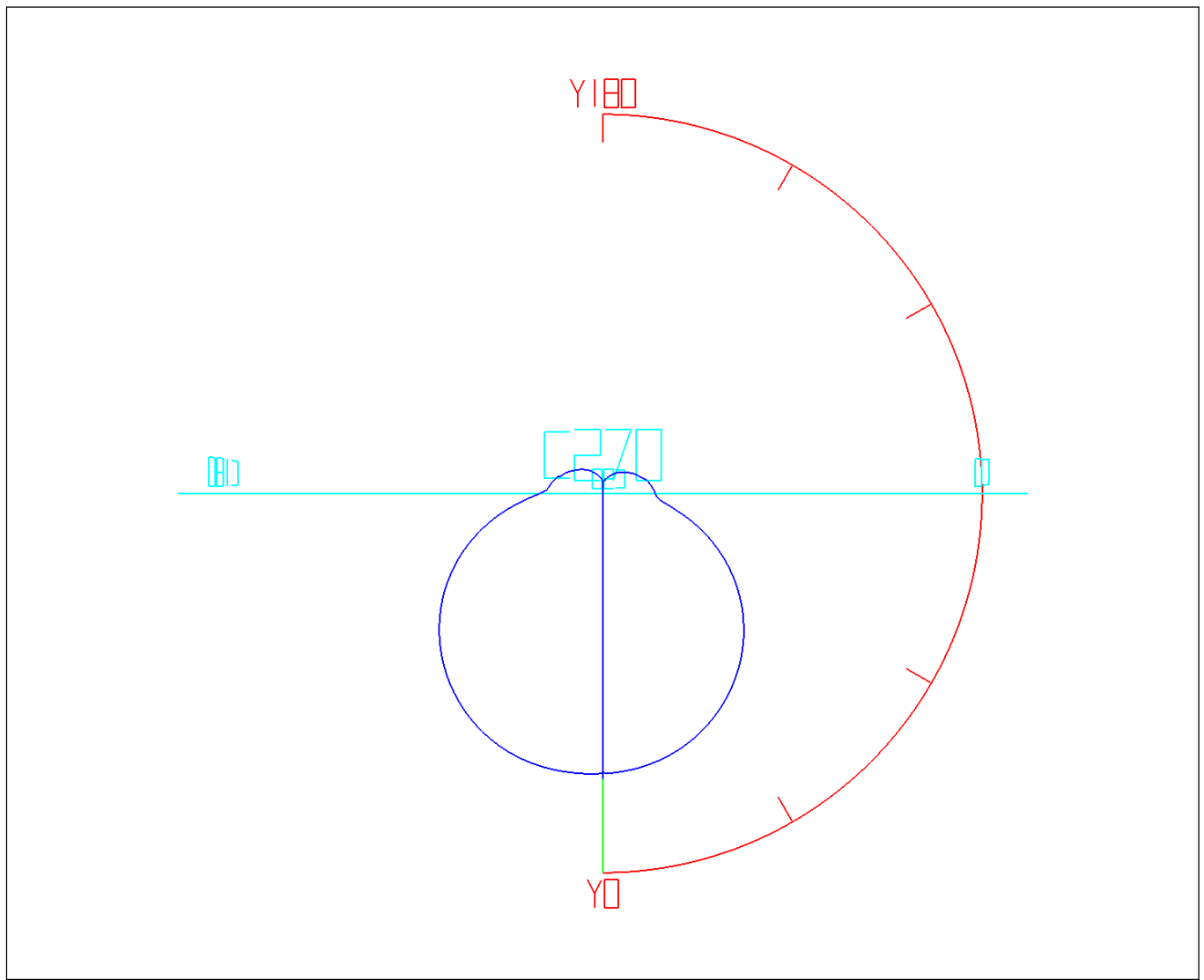
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3D Light Intensity Distribution Modal

Lum. Name: LEDBATTEN60W-4K	Lum. Catalog: LED BATTEN	Test ID:
Lamp Name: 4000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2017/02/16

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	1.42	1.42	0.02	0.02	47.0-48.0	83.36	83.36	1.44	1.44
1.0-2.0	4.27	5.69	0.07	0.10	48.0-49.0	83.16	166.52	1.44	2.88
2.0-3.0	7.10	12.79	0.12	0.22	49.0-50.0	82.86	249.38	1.43	4.32
3.0-4.0	9.94	22.73	0.17	0.39	50.0-51.0	82.45	331.83	1.43	5.75
4.0-5.0	12.76	35.49	0.22	0.61	51.0-52.0	81.94	413.77	1.42	7.17
5.0-6.0	15.56	51.05	0.27	0.88	52.0-53.0	81.33	495.09	1.41	8.57
6.0-7.0	18.35	69.40	0.32	1.20	53.0-54.0	80.63	575.72	1.40	9.97
7.0-8.0	21.12	90.53	0.37	1.57	54.0-55.0	79.84	655.56	1.38	11.35
8.0-9.0	23.87	114.40	0.41	1.98	55.0-56.0	78.96	734.52	1.37	12.72
9.0-10.0	26.59	140.99	0.46	2.44	56.0-57.0	77.99	812.51	1.35	14.07
10.0-11.0	29.28	170.26	0.51	2.95	57.0-58.0	76.93	889.43	1.33	15.40
11.0-12.0	31.94	202.20	0.55	3.50	58.0-59.0	75.76	965.19	1.31	16.72
12.0-13.0	34.56	236.76	0.60	4.10	59.0-60.0	74.49	1039.68	1.29	18.01
13.0-14.0	37.14	273.90	0.64	4.74	60.0-61.0	73.14	1112.82	1.27	19.27
14.0-15.0	39.68	313.59	0.69	5.43	61.0-62.0	71.70	1184.52	1.24	20.51
15.0-16.0	42.17	355.76	0.73	6.16	62.0-63.0	70.18	1254.70	1.22	21.73
16.0-17.0	44.62	400.38	0.77	6.93	63.0-64.0	68.58	1323.28	1.19	22.92
17.0-18.0	47.01	447.39	0.81	7.75	64.0-65.0	66.89	1390.17	1.16	24.07
18.0-19.0	49.35	496.74	0.85	8.60	65.0-66.0	65.14	1455.31	1.13	25.20
19.0-20.0	51.63	548.37	0.89	9.50	66.0-67.0	63.33	1518.64	1.10	26.30
20.0-21.0	53.85	602.22	0.93	10.43	67.0-68.0	61.46	1580.10	1.06	27.36
21.0-22.0	56.01	658.23	0.97	11.40	68.0-69.0	59.50	1639.59	1.03	28.39
22.0-23.0	58.10	716.33	1.01	12.41	69.0-70.0	57.47	1697.06	1.00	29.39
23.0-24.0	60.12	776.44	1.04	13.45	70.0-71.0	55.39	1752.45	0.96	30.35
24.0-25.0	62.07	838.52	1.07	14.52	71.0-72.0	53.26	1805.71	0.92	31.27
25.0-26.0	63.95	902.47	1.11	15.63	72.0-73.0	51.10	1856.81	0.88	32.16
26.0-27.0	65.76	968.23	1.14	16.77	73.0-74.0	48.90	1905.71	0.85	33.00
27.0-28.0	67.48	1035.71	1.17	17.94	74.0-75.0	46.67	1952.37	0.81	33.81
28.0-29.0	69.13	1104.84	1.20	19.13	75.0-76.0	44.42	1996.79	0.77	34.58
29.0-30.0	70.69	1175.53	1.22	20.36	76.0-77.0	42.16	2038.95	0.73	35.31
30.0-31.0	72.17	1247.70	1.25	21.61	77.0-78.0	39.92	2078.87	0.69	36.00
31.0-32.0	73.58	1321.28	1.27	22.88	78.0-79.0	37.71	2116.58	0.65	36.65
32.0-33.0	74.89	1396.17	1.30	24.18	79.0-80.0	35.54	2152.12	0.62	37.27
33.0-34.0	76.11	1472.28	1.32	25.50	80.0-81.0	33.42	2185.54	0.58	37.85
34.0-35.0	77.24	1549.51	1.34	26.83	81.0-82.0	31.38	2216.92	0.54	38.39
35.0-36.0	78.28	1627.79	1.36	28.19	82.0-83.0	29.44	2246.37	0.51	38.90
36.0-37.0	79.23	1707.02	1.37	29.56	83.0-84.0	27.62	2273.99	0.48	39.38
37.0-38.0	80.09	1787.11	1.39	30.95	84.0-85.0	25.93	2299.92	0.45	39.83
38.0-39.0	80.86	1867.97	1.40	32.35	85.0-86.0	24.42	2324.34	0.42	40.25
39.0-40.0	81.53	1949.50	1.41	33.76	86.0-87.0	23.11	2347.45	0.40	40.65
40.0-41.0	82.09	2031.59	1.42	35.18	87.0-88.0	21.99	2369.44	0.38	41.03
41.0-42.0	82.57	2114.16	1.43	36.61	88.0-89.0	21.09	2390.52	0.37	41.40
42.0-43.0	82.95	2197.11	1.44	38.05	89.0-90.0	20.37	2410.89	0.35	41.75
43.0-44.0	83.24	2280.34	1.44	39.49	90.0-91.0	19.80	2430.69	0.34	42.09
44.0-45.0	83.42	2363.76	1.44	40.94	91.0-92.0	19.37	2450.06	0.34	42.43
45.0-46.0	83.50	2447.26	1.45	42.38	92.0-93.0	19.02	2469.08	0.33	42.76
46.0-47.0	83.48	2530.74	1.45	43.83	93.0-94.0	18.74	2487.82	0.32	43.08

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Zonal Flux Tabulation - (Cont.)

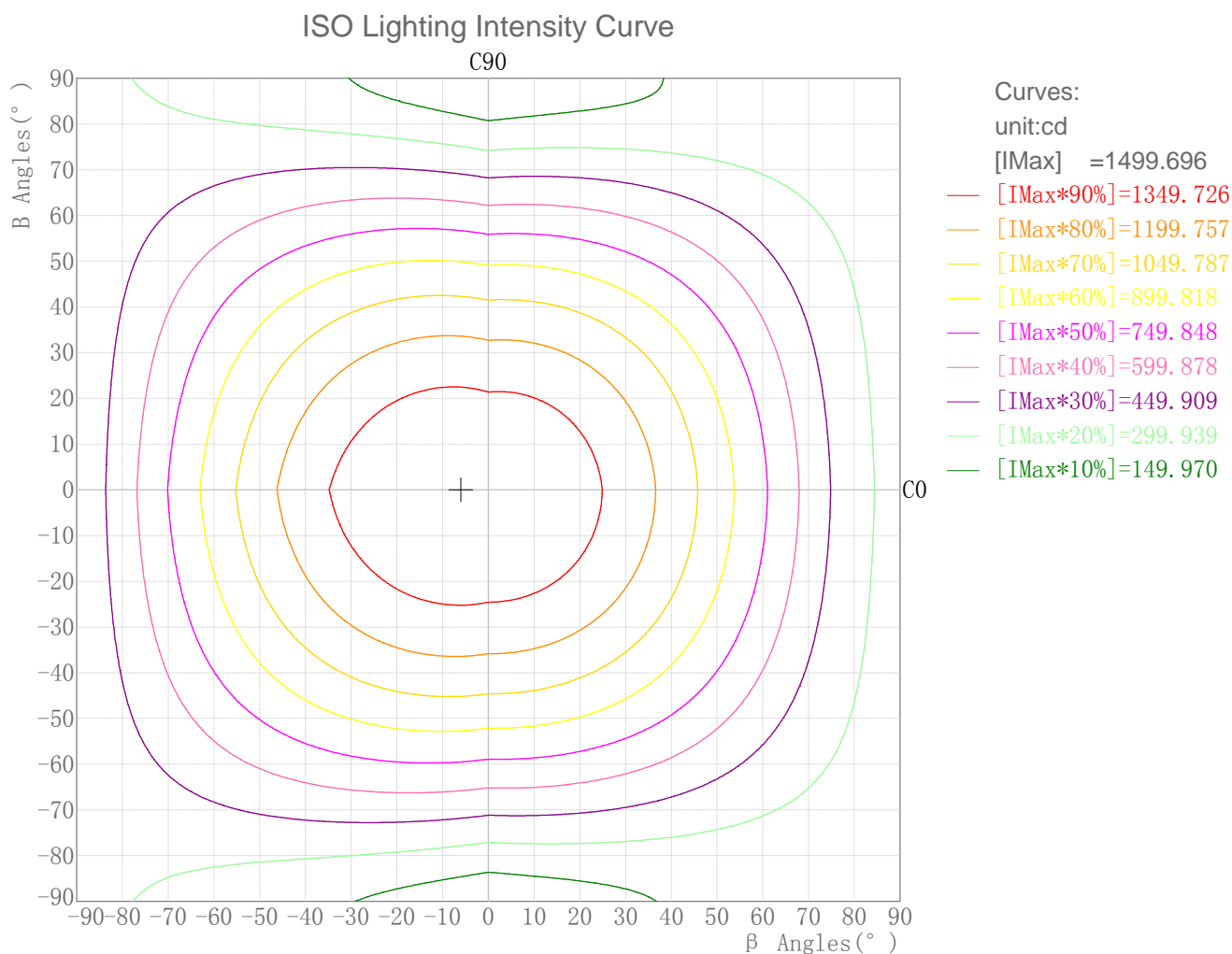
Zone (γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp	Zone (γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
94.0-95.0	18.51	18.51	0.32	0.32	141.0-142.0	7.27	7.27	0.13	0.13
95.0-96.0	18.33	36.85	0.32	0.64	142.0-143.0	7.04	14.32	0.12	0.25
96.0-97.0	18.19	55.04	0.31	0.95	143.0-144.0	6.81	21.12	0.12	0.37
97.0-98.0	18.04	73.07	0.31	1.27	144.0-145.0	6.57	27.70	0.11	0.48
98.0-99.0	17.88	90.95	0.31	1.58	145.0-146.0	6.34	34.04	0.11	0.59
99.0-100.0	17.71	108.66	0.31	1.88	146.0-147.0	6.10	40.14	0.11	0.70
100.0-101.0	17.54	126.20	0.30	2.19	147.0-148.0	5.87	46.01	0.10	0.80
101.0-102.0	17.37	143.57	0.30	2.49	148.0-149.0	5.64	51.64	0.10	0.89
102.0-103.0	17.19	160.76	0.30	2.78	149.0-150.0	5.40	57.05	0.09	0.99
103.0-104.0	17.00	177.75	0.29	3.08	150.0-151.0	5.17	62.22	0.09	1.08
104.0-105.0	16.80	194.56	0.29	3.37	151.0-152.0	4.94	67.16	0.09	1.16
105.0-106.0	16.60	211.16	0.29	3.66	152.0-153.0	4.70	71.86	0.08	1.24
106.0-107.0	16.39	227.55	0.28	3.94	153.0-154.0	4.48	76.34	0.08	1.32
107.0-108.0	16.17	243.73	0.28	4.22	154.0-155.0	4.26	80.60	0.07	1.40
108.0-109.0	15.95	259.67	0.28	4.50	155.0-156.0	4.05	84.65	0.07	1.47
109.0-110.0	15.68	275.36	0.27	4.77	156.0-157.0	3.84	88.49	0.07	1.53
110.0-111.0	15.36	290.71	0.27	5.03	157.0-158.0	3.64	92.13	0.06	1.60
111.0-112.0	14.99	305.71	0.26	5.29	158.0-159.0	3.44	95.57	0.06	1.66
112.0-113.0	14.67	320.37	0.25	5.55	159.0-160.0	3.24	98.81	0.06	1.71
113.0-114.0	14.40	334.77	0.25	5.80	160.0-161.0	3.04	101.85	0.05	1.76
114.0-115.0	14.15	348.93	0.25	6.04	161.0-162.0	2.85	104.70	0.05	1.81
115.0-116.0	13.91	362.84	0.24	6.28	162.0-163.0	2.66	107.37	0.05	1.86
116.0-117.0	13.70	376.54	0.24	6.52	163.0-164.0	2.48	109.85	0.04	1.90
117.0-118.0	13.50	390.03	0.23	6.75	164.0-165.0	2.30	112.15	0.04	1.94
118.0-119.0	13.24	403.27	0.23	6.98	165.0-166.0	2.13	114.27	0.04	1.98
119.0-120.0	12.95	416.22	0.22	7.21	166.0-167.0	1.95	116.23	0.03	2.01
120.0-121.0	12.72	428.94	0.22	7.43	167.0-168.0	1.78	118.01	0.03	2.04
121.0-122.0	12.49	441.43	0.22	7.64	168.0-169.0	1.62	119.63	0.03	2.07
122.0-123.0	12.22	453.65	0.21	7.86	169.0-170.0	1.46	121.09	0.03	2.10
123.0-124.0	11.94	465.59	0.21	8.06	170.0-171.0	1.30	122.39	0.02	2.12
124.0-125.0	11.66	477.25	0.20	8.26	171.0-172.0	1.15	123.54	0.02	2.14
125.0-126.0	11.38	488.62	0.20	8.46	172.0-173.0	1.00	124.54	0.02	2.16
126.0-127.0	11.11	499.73	0.19	8.65	173.0-174.0	0.85	125.39	0.01	2.17
127.0-128.0	10.85	510.59	0.19	8.84	174.0-175.0	0.71	126.10	0.01	2.18
128.0-129.0	10.61	521.19	0.18	9.03	175.0-176.0	0.57	126.67	0.01	2.19
129.0-130.0	10.34	531.53	0.18	9.21	176.0-177.0	0.44	127.12	0.01	2.20
130.0-131.0	10.08	541.61	0.17	9.38	177.0-178.0	0.31	127.43	0.01	2.21
131.0-132.0	9.82	551.43	0.17	9.55	178.0-179.0	0.19	127.62	0.00	2.21
132.0-133.0	9.55	560.98	0.17	9.71	179.0-180.0	0.06	127.68	0.00	2.21
133.0-134.0	9.27	570.25	0.16	9.88					
134.0-135.0	9.01	579.26	0.16	10.03					
135.0-136.0	8.76	588.02	0.15	10.18					
136.0-137.0	8.52	596.54	0.15	10.33					
137.0-138.0	8.28	604.81	0.14	10.47					
138.0-139.0	8.02	612.84	0.14	10.61					
139.0-140.0	7.77	620.61	0.13	10.75					
140.0-141.0	7.51	628.12	0.13	10.88					

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Rectangle ISO Lighting Intensity Diagram

Lum. Name: LEDBATTEN60W-4K	Lum. Catalog: LED BATTEN	Test ID:
Lamp Name: 4000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2017/02/16



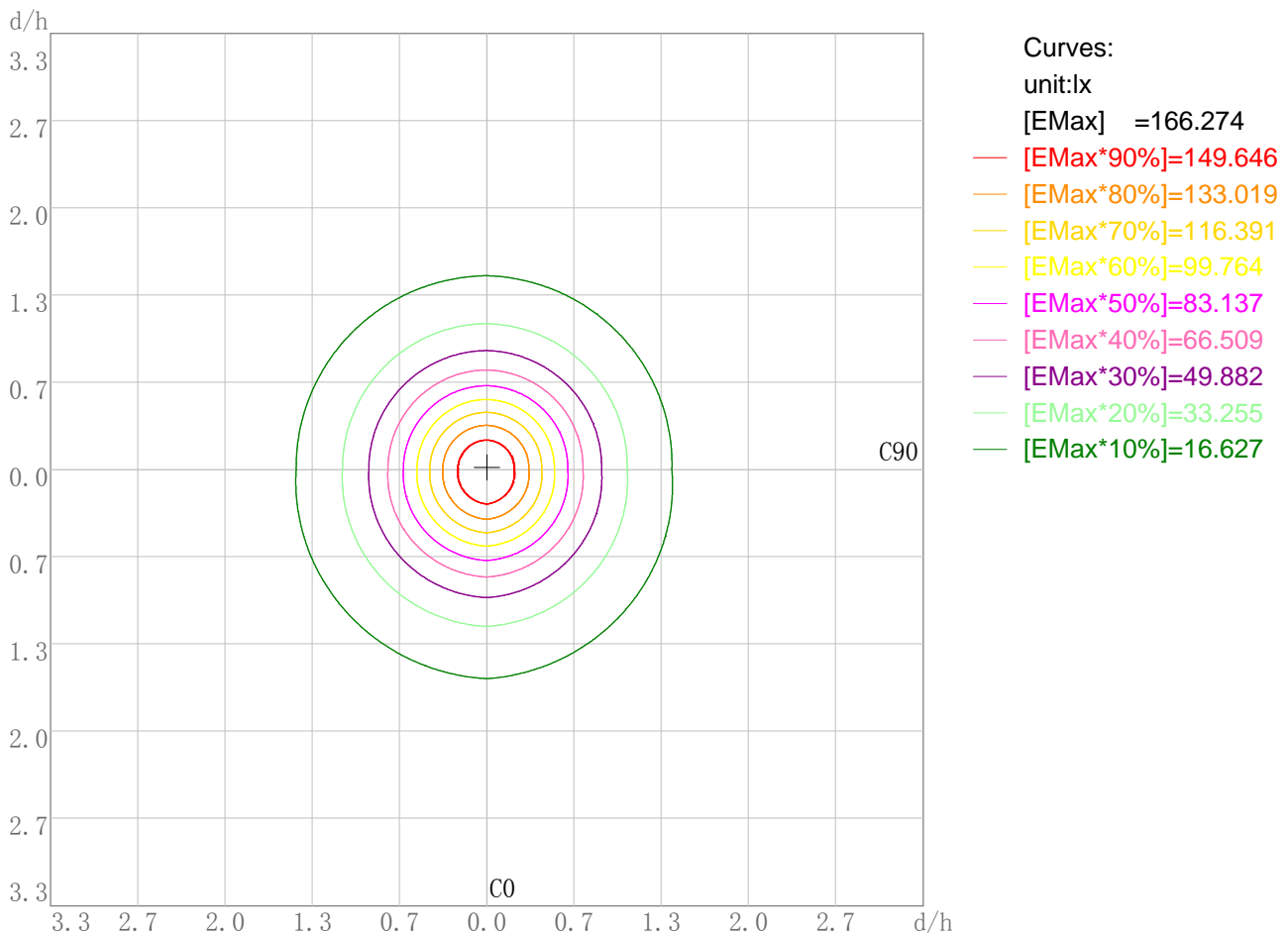
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Plane ISO-Illuminance Diagram

Lum. Name: LEDBATTEN60W-4K	Lum. Catalog: LED BATTEN	Test ID:
Lamp Name: 4000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2017/02/16

Plane ISO-Illuminance Curve



Working Plane Luminaire Mounting Height(m): 3.00

Working Plane Maximum Illuminance(lx): 166.27

Working Plane Maximum Illuminance Position(d/h):H0.0 V-0.0

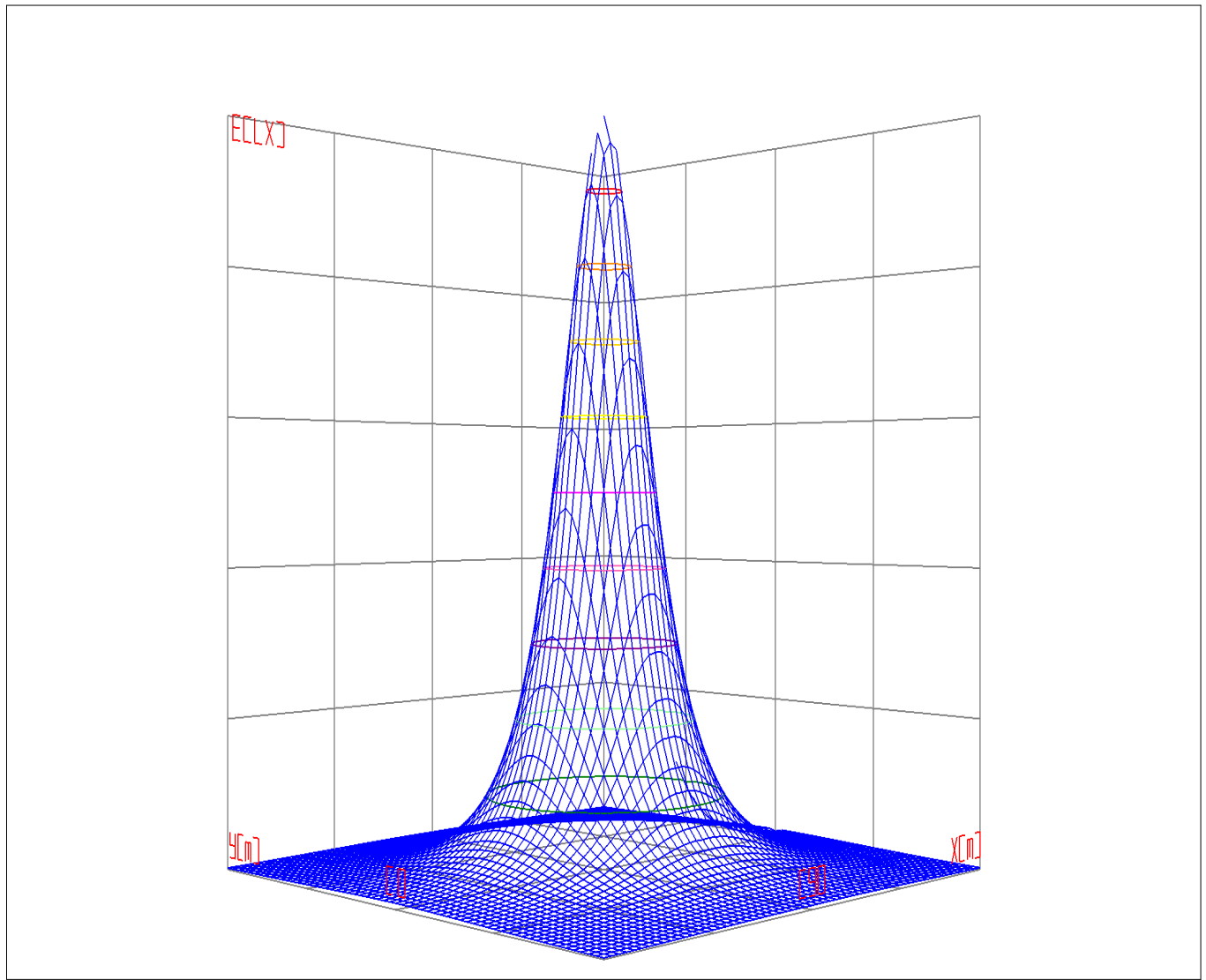
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3D Plane ISO Illuminance Diagram

Lum. Name: LEDBATTEN60W-4K	Lum. Catalog: LED BATTEN	Test ID:
Lamp Name: 4000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2017/02/16

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

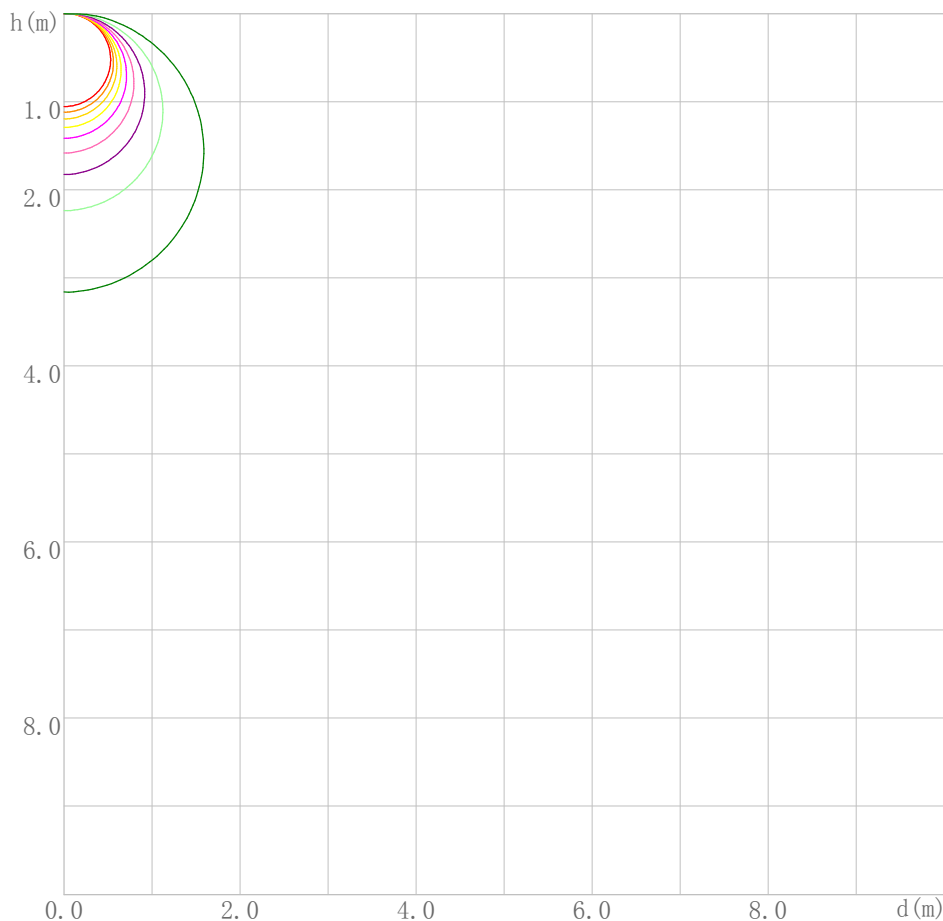
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Space ISO Illuminance Diagram

Lum. Name: LEDBATTEN60W-4K	Lum. Catalog: LED BATTEN	Test ID:
Lamp Name: 4000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2017/02/16

Space ISO Illuminance Curve



Curves:

unit:lx

[EMax] =1493.952

— [EMax*90%]=1344.557

— [EMax*80%]=1195.162

— [EMax*70%]=1045.767

— [EMax*60%]=896.371

— [EMax*50%]=746.976

— [EMax*40%]=597.581

— [EMax*30%]=448.186

— [EMax*20%]=298.790

— [EMax*10%]=149.395

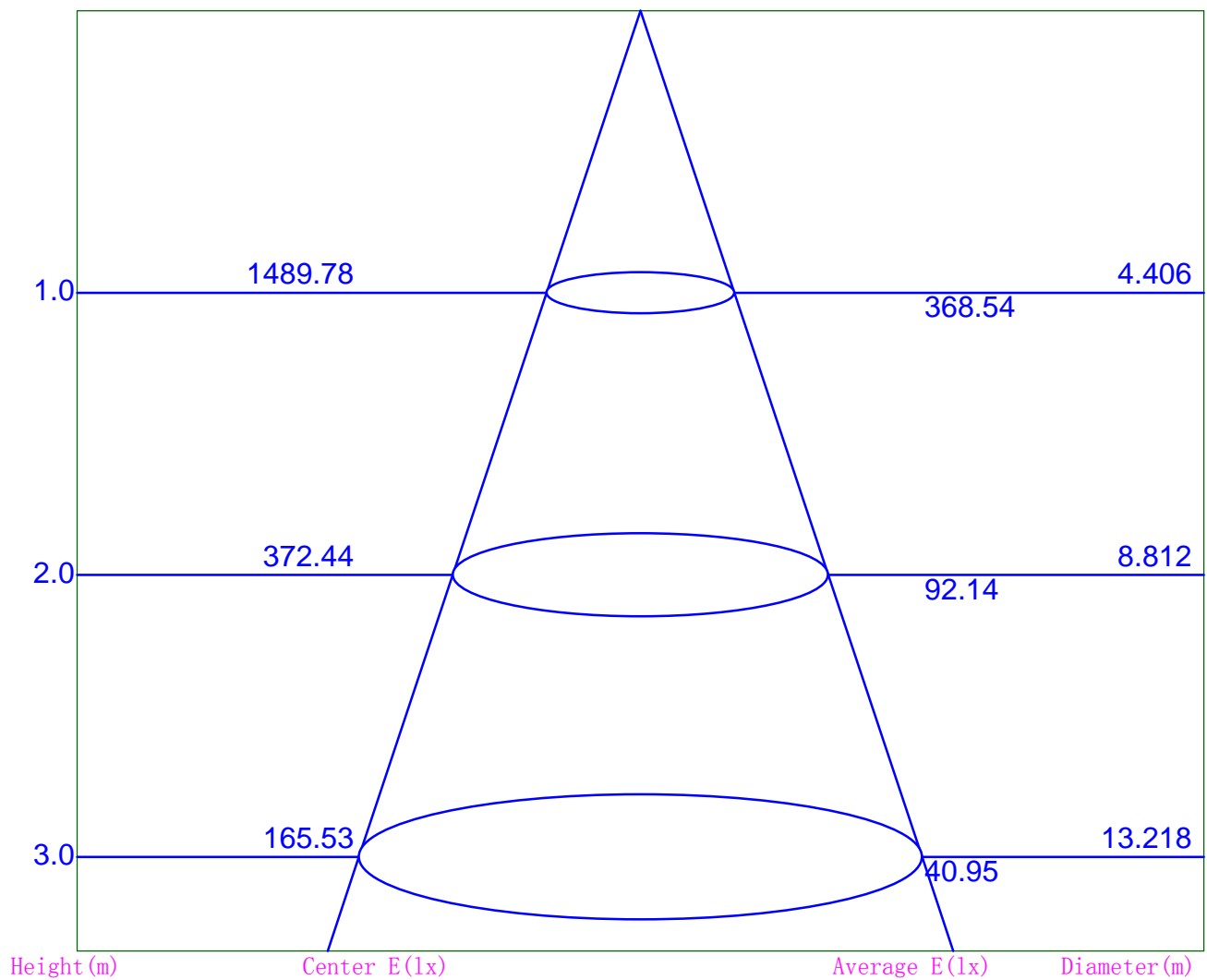
Space Plane Maximum Illuminance and @Angle:1493.95,1.0deg

Plane Maximum Lighting Intensity and @Angle:1494.635cd,0deg

Illuminance-Distance Diagram

Lum. Name: LEDBATTEN60W-4K	Lum. Catalog: LED BATTEN	Test ID:
Lamp Name: 4000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2017/02/16

Illuminance-Distance Curve



Beam Angle:131.2

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Indoor Luminance Limiting Curves

Lum. Name: LEDBATTEN60W-4K	Lum. Catalog: LED BATTEN	Test ID:
Lamp Name: 4000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2017/02/16

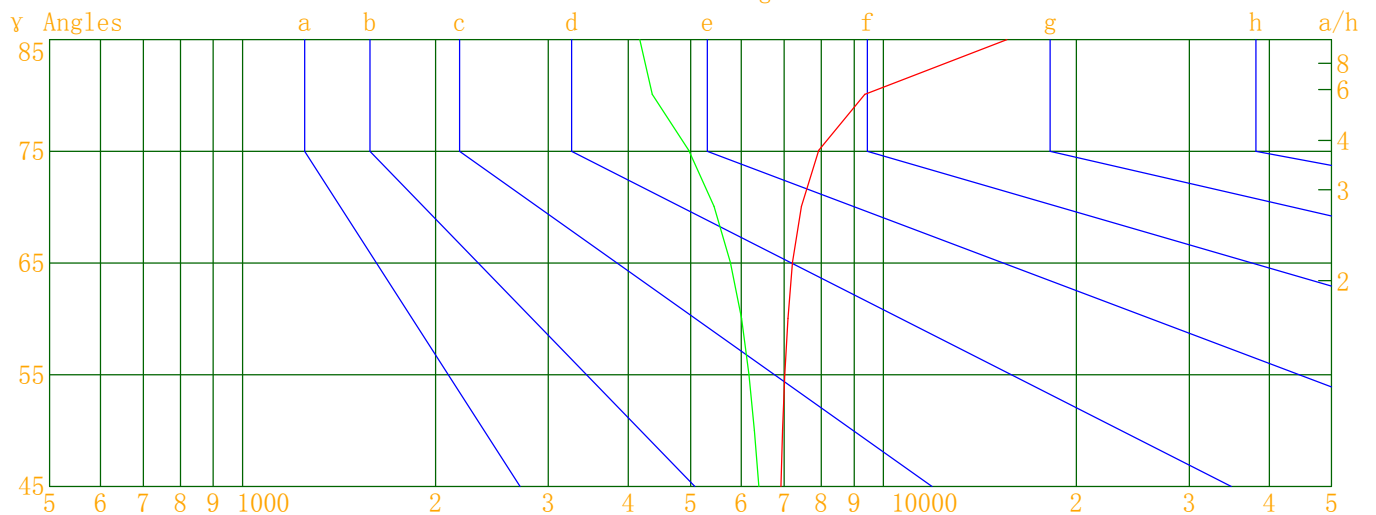
Glare Grade Table

GI	Quality	Using Illuminance							
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	6916	6959	7016	7095	7215	7449	7928	9351	15582
C90	6389	6292	6169	6003	5771	5439	4966	4358	4165

Luminance Limiting Curve



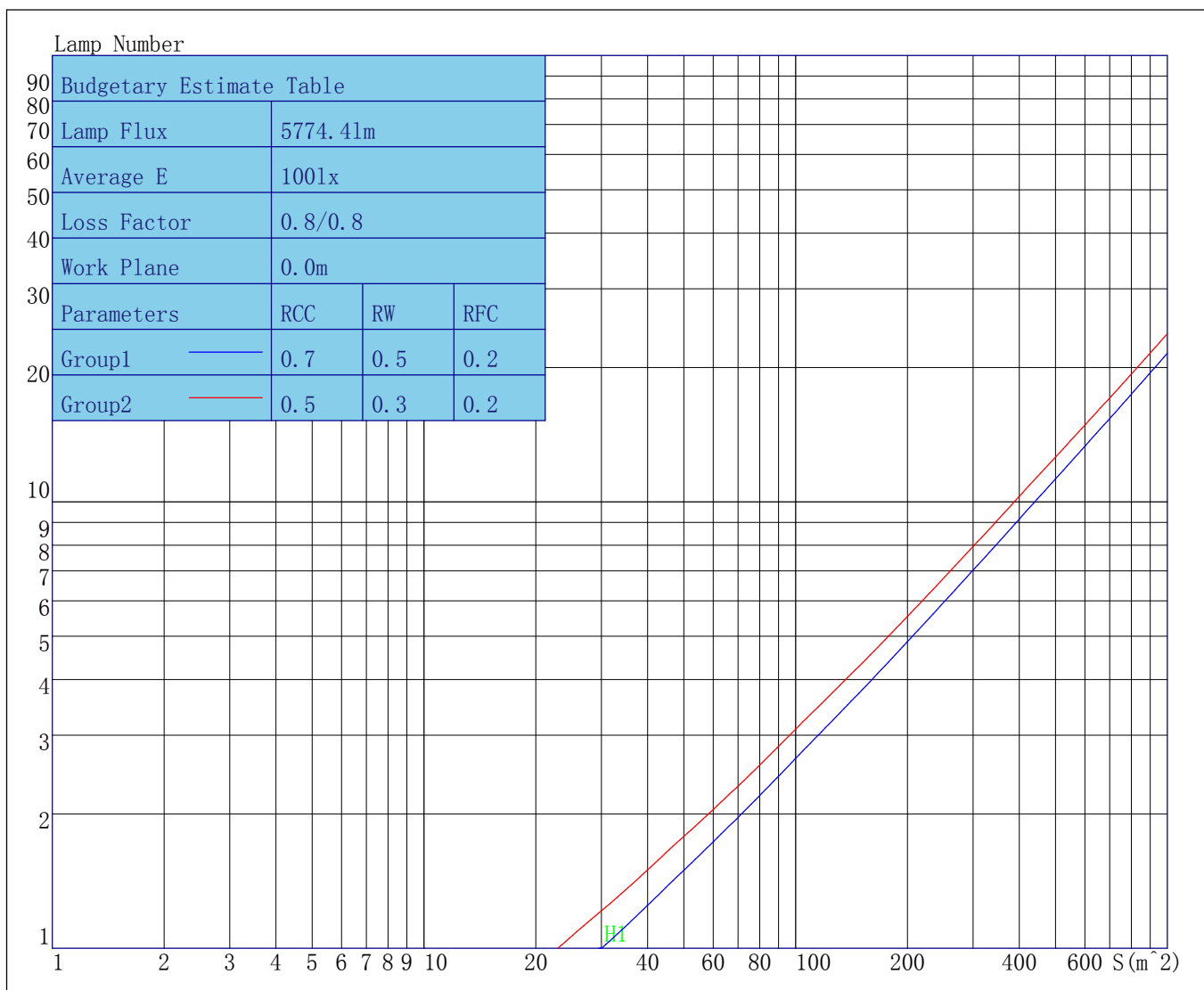
Luminous Size: Length(m)=1.500 Width(m)=0.080 Height(m)=0.065 Area(m²)=0.217500
 Luminous Type: Without Luminous Side
 Luminous Curves: C0-C180 Color: ——— C90-C270 Color: ———

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Indoor Budgetary Estimate Table

Lum. Name: LEDBATTEN60W-4K	Lum. Catalog: LED BATTEN	Test ID:
Lamp Name: 4000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2017/02/16



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: LEDBATTEN60W-4K	Lum. Catalog: LED BATTEN	Test ID:
Lamp Name: 4000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2017/02/16

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	0
RCR	Coefficient of Utilization (%)																	
0	116	116	116	116	111	111	111	111	103	103	103	96	96	96	89	89	89	86
1	104	99	94	89	100	95	91	87	88	84	81	82	79	76	76	74	71	68
2	94	85	78	72	90	82	75	70	76	71	66	71	66	62	65	62	59	56
3	85	74	66	59	81	71	64	57	66	60	54	62	56	52	57	53	49	46
4	78	65	56	49	74	63	55	48	59	52	46	55	49	44	51	46	42	39
5	71	58	49	42	68	56	48	41	52	45	39	49	43	38	46	40	36	33
6	66	52	43	36	63	50	42	36	47	40	34	44	38	33	41	36	31	29
7	61	47	38	32	58	46	37	31	43	35	30	40	34	29	37	32	28	25
8	56	43	34	28	54	41	33	28	39	32	27	37	30	26	34	29	25	23
9	53	39	31	25	50	38	30	25	36	29	24	34	27	23	32	26	22	20
10	49	36	28	23	47	35	27	22	33	26	22	31	25	21	29	24	20	18

IES Indoor Report

Photometric Filename:LEDBATTEN60W-4K-2017-02-16.IES

Unified Glare Rating Table

Lum. Name: LEDBATTEN60W-4K	Lum. Catalog: LED BATTEN	Test ID:
Lamp Name: 4000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2017/02/16

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	13.3	16.5	14.6	17.9	19.3	12.4	15.7	13.8	17.1	18.5
Y=3H	18.7	22.0	20.1	23.4	24.8	17.0	20.2	18.3	21.6	23.1
Y=4H	22.1	25.0	23.5	26.4	27.8	19.6	22.4	21.0	23.8	25.3
Y=6H	25.0	27.8	26.4	29.2	30.7	21.2	24.0	22.6	25.4	26.8
Y=8H	26.6	29.4	28.0	30.8	32.3	21.8	24.5	23.2	25.9	27.4
Y=12H	28.5	31.2	29.9	32.7	34.1	22.2	24.9	23.6	26.4	27.8
X=4H Y=2H	14.6	17.5	16.0	18.9	20.4	14.3	17.2	15.7	18.6	20.1
Y=3H	20.3	23.2	21.7	24.6	26.1	19.2	22.0	20.6	23.4	24.9
Y=4H	22.2	24.0	23.9	25.7	27.4	20.2	22.1	21.9	23.7	25.4
Y=6H	25.7	27.4	27.4	29.1	30.8	22.5	24.1	24.2	25.8	27.5
Y=8H	27.7	29.3	29.4	31.0	32.7	23.3	25.0	25.1	26.7	28.4
Y=12H	29.2	30.5	31.0	32.3	34.1	23.2	24.5	25.0	26.4	28.2
X=8H Y=4H	22.6	24.2	24.3	25.9	27.6	21.1	22.7	22.8	24.3	26.1
Y=6H	25.6	26.7	27.4	28.6	30.4	22.9	24.0	24.7	25.8	27.7
Y=8H	27.4	28.3	29.3	30.2	32.1	23.7	24.6	25.6	26.5	28.4
Y=12H	30.2	31.1	32.2	33.0	34.9	24.9	25.8	26.8	27.7	29.6
X=12H Y=4H	21.7	23.0	23.5	24.9	26.7	20.3	21.7	22.2	23.5	25.3
Y=6H	25.2	26.1	27.1	28.0	29.9	22.7	23.6	24.6	25.6	27.5
Y=8H	27.5	28.4	29.5	30.3	32.2	24.1	25.0	26.1	26.9	28.8
Variations with the objerver position at spacings										
S=1.0H	2.2/-1.5					2.3/-0.7				
S=1.5H	-1.5/-19.5					-0.7/-17.5				
S=2.0H	-1.5/-19.5					-0.7/-17.5				

IES Indoor Report

Photometric Filename:LEDBATTEN60W-4K-2017-02-16.IES

Candela Tabulation

V/H	C0.0	C90.0	C180.0	C270.0
Y 0.0	1489.78	1489.78	1489.78	1489.78
Y 1.0	1494.64	1476.07	1497.15	1477.62
Y 2.0	1492.71	1474.53	1498.04	1477.72
Y 3.0	1490.57	1472.41	1499.02	1477.36
Y 4.0	1488.24	1469.91	1499.42	1476.38
Y 5.0	1485.50	1467.02	1499.66	1474.94
Y 6.0	1482.43	1463.37	1499.70	1473.06
Y 7.0	1479.09	1459.31	1499.65	1470.67
Y 8.0	1475.24	1454.86	1499.39	1467.86
Y 9.0	1470.94	1450.01	1498.56	1464.26
Y 10.0	1466.27	1444.45	1497.64	1460.31
Y 11.0	1461.23	1438.50	1496.56	1455.94
Y 12.0	1455.95	1432.13	1495.16	1451.23
Y 13.0	1450.10	1425.18	1493.15	1445.88
Y 14.0	1443.84	1418.01	1490.74	1439.92
Y 15.0	1437.25	1410.11	1488.21	1433.69
Y 16.0	1430.11	1401.57	1485.16	1426.97
Y 17.0	1422.53	1393.14	1481.58	1419.46
Y 18.0	1414.71	1383.97	1477.77	1411.82
Y 19.0	1406.47	1374.26	1473.45	1403.64
Y 20.0	1398.07	1363.99	1468.84	1395.06
Y 21.0	1388.91	1353.62	1463.68	1385.99
Y 22.0	1379.10	1342.79	1457.97	1376.42
Y 23.0	1369.22	1331.25	1451.96	1366.38
Y 24.0	1359.19	1319.28	1445.58	1355.85
Y 25.0	1348.56	1307.23	1438.84	1345.02
Y 26.0	1337.82	1294.56	1431.44	1333.61
Y 27.0	1326.48	1281.60	1423.89	1321.84
Y 28.0	1314.47	1268.20	1415.73	1309.73
Y 29.0	1302.22	1254.28	1407.14	1297.23
Y 30.0	1289.86	1239.88	1398.02	1284.02
Y 31.0	1277.36	1225.38	1388.83	1270.51
Y 32.0	1264.43	1210.36	1379.11	1256.82
Y 33.0	1250.86	1195.05	1369.08	1242.50
Y 34.0	1236.76	1179.24	1358.37	1227.88
Y 35.0	1222.43	1163.06	1347.34	1212.79
Y 36.0	1208.17	1146.52	1336.04	1197.48
Y 37.0	1193.70	1129.60	1324.44	1181.41
Y 38.0	1178.53	1112.43	1312.36	1165.51
Y 39.0	1162.98	1094.94	1300.04	1149.00
Y 40.0	1147.05	1077.12	1287.10	1132.07
Y 41.0	1130.72	1058.77	1273.86	1114.98
Y 42.0	1114.32	1040.01	1260.27	1097.29
Y 43.0	1098.12	1021.19	1246.54	1079.20
Y 44.0	1081.11	1002.01	1232.23	1060.93
Y 45.0	1063.63	982.66	1217.66	1042.23
Y 46.0	1045.75	962.33	1202.73	1023.26

IES Indoor Report

Photometric Filename:LEDBATTEN60W-4K-2017-02-16.IES

Candela Tabulation - (Cont.)

V/H	C0.0	C90.0	C180.0	C270.0
Y 47.0	1027.63	942.23	1187.46	1003.87
Y 48.0	1009.57	921.66	1171.86	984.21
Y 49.0	991.63	900.86	1156.14	964.35
Y 50.0	972.93	879.68	1139.88	943.89
Y 51.0	953.74	858.26	1123.18	923.30
Y 52.0	934.20	836.52	1106.26	902.39
Y 53.0	914.40	814.46	1088.98	881.14
Y 54.0	894.84	792.26	1071.44	859.48
Y 55.0	875.28	769.62	1053.76	837.71
Y 56.0	855.13	746.89	1035.63	815.57
Y 57.0	834.42	723.70	1018.24	793.24
Y 58.0	813.54	700.34	999.90	770.56
Y 59.0	792.44	676.79	980.52	747.71
Y 60.0	771.55	652.86	960.78	724.32
Y 61.0	750.81	628.76	940.28	700.80
Y 62.0	729.30	604.47	920.58	676.92
Y 63.0	707.43	580.00	900.47	652.97
Y 64.0	685.40	555.32	879.95	628.85
Y 65.0	663.20	530.46	859.24	604.34
Y 66.0	641.39	505.38	838.46	579.59
Y 67.0	620.45	480.39	817.46	554.81
Y 68.0	598.82	455.11	796.05	529.73
Y 69.0	576.50	429.85	774.46	504.57
Y 70.0	554.10	404.60	752.65	479.38
Y 71.0	531.81	379.26	730.68	454.02
Y 72.0	510.03	354.04	708.57	428.60
Y 73.0	488.70	328.96	686.46	403.20
Y 74.0	467.37	304.05	664.00	377.75
Y 75.0	446.29	279.57	641.43	352.52
Y 76.0	425.71	255.37	618.77	327.34
Y 77.0	405.77	231.57	596.12	302.41
Y 78.0	387.15	208.44	573.68	277.73
Y 79.0	369.60	186.08	551.25	253.43
Y 80.0	353.16	164.60	528.99	229.61
Y 81.0	338.18	144.37	506.78	206.44
Y 82.0	324.95	125.37	484.79	184.09
Y 83.0	313.32	107.91	463.41	162.65
Y 84.0	303.42	92.32	442.55	142.32
Y 85.0	295.38	78.94	422.28	123.35
Y 86.0	290.02	68.07	402.89	106.21
Y 87.0	286.24	60.13	384.35	90.90
Y 88.0	283.87	55.42	367.09	77.90
Y 89.0	281.84	53.60	351.51	67.59
Y 90.0	279.88	53.69	337.56	60.23
Y 91.0	277.91	53.82	325.42	56.19
Y 92.0	275.90	53.94	314.74	55.30
Y 93.0	273.86	54.12	305.82	55.19

IES Indoor Report

Photometric Filename:LEDBATTEN60W-4K-2017-02-16.IES

Candela Tabulation - (Cont.)

V/H	C0.0	C90.0	C180.0	C270.0
Y 94.0	271.83	54.33	299.55	55.07
Y 95.0	269.82	54.22	295.00	55.05
Y 96.0	267.73	54.49	292.38	55.07
Y 97.0	265.74	54.68	290.17	55.07
Y 98.0	263.55	54.79	287.95	55.13
Y 99.0	261.40	54.94	285.68	55.17
Y 100.0	259.22	55.08	283.45	55.21
Y 101.0	257.03	55.22	281.13	55.24
Y 102.0	254.81	55.31	278.81	55.31
Y 103.0	252.57	55.50	276.46	55.41
Y 104.0	250.31	55.67	274.00	55.46
Y 105.0	247.97	55.80	271.47	55.55
Y 106.0	245.65	55.91	268.77	55.63
Y 107.0	243.29	56.12	266.08	55.68
Y 108.0	240.76	56.19	263.33	55.80
Y 109.0	237.81	56.39	260.54	55.95
Y 110.0	233.13	56.53	257.53	56.01
Y 111.0	227.27	56.65	252.78	56.12
Y 112.0	223.40	56.81	246.21	56.25
Y 113.0	220.42	57.01	241.71	56.32
Y 114.0	217.98	57.10	238.40	56.42
Y 115.0	215.31	57.25	235.77	56.58
Y 116.0	212.13	57.40	233.52	56.69
Y 117.0	210.62	57.55	231.85	56.77
Y 118.0	208.97	57.67	229.74	56.90
Y 119.0	204.10	57.84	226.65	57.04
Y 120.0	201.09	58.01	223.57	57.14
Y 121.0	201.14	58.14	220.51	57.22
Y 122.0	198.82	58.29	217.35	57.36
Y 123.0	195.06	58.42	214.52	57.43
Y 124.0	191.44	58.56	211.37	57.56
Y 125.0	188.26	58.70	208.13	57.70
Y 126.0	185.02	58.85	205.01	57.81
Y 127.0	182.28	59.02	202.00	57.92
Y 128.0	180.59	59.10	199.21	58.05
Y 129.0	177.79	59.30	196.39	58.14
Y 130.0	174.79	59.42	193.69	58.26
Y 131.0	171.97	59.51	190.98	58.36
Y 132.0	168.85	59.63	188.33	58.52
Y 133.0	165.29	59.74	185.67	58.65
Y 134.0	161.65	59.82	183.02	58.72
Y 135.0	158.77	60.02	180.35	58.87
Y 136.0	156.99	60.13	177.69	58.99
Y 137.0	154.87	60.25	175.11	59.08
Y 138.0	152.24	60.40	172.53	59.24
Y 139.0	149.33	60.47	169.91	59.34
Y 140.0	146.11	60.59	167.34	59.44

IES Indoor Report

Photometric Filename:LEDBATTEN60W-4K-2017-02-16.IES

Candela Tabulation - (Cont.)

V/H	C0.0	C90.0	C180.0	C270.0
Y 141.0	143.25	60.73	164.67	59.57
Y 142.0	141.58	60.91	162.02	59.69
Y 143.0	139.70	60.96	159.23	59.84
Y 144.0	137.39	61.07	156.84	59.93
Y 145.0	135.11	61.17	154.21	60.00
Y 146.0	132.98	61.24	151.54	60.17
Y 147.0	130.51	61.33	148.86	60.25
Y 148.0	127.95	61.51	146.18	60.31
Y 149.0	125.33	61.55	143.56	60.44
Y 150.0	122.52	61.67	140.99	60.56
Y 151.0	119.83	61.73	138.24	60.62
Y 152.0	116.80	61.90	135.27	60.76
Y 153.0	113.88	61.91	131.98	60.76
Y 154.0	111.46	62.03	128.68	61.10
Y 155.0	109.11	62.13	126.01	61.12
Y 156.0	106.93	62.21	123.55	61.18
Y 157.0	104.72	62.27	121.14	61.31
Y 158.0	102.32	62.38	118.70	61.30
Y 159.0	99.75	62.46	116.12	61.45
Y 160.0	97.41	62.51	113.37	61.55
Y 161.0	95.03	62.59	110.74	61.65
Y 162.0	92.68	62.65	108.35	61.69
Y 163.0	90.49	62.70	105.86	61.78
Y 164.0	88.33	62.79	103.40	61.89
Y 165.0	86.20	62.87	101.03	61.92
Y 166.0	83.92	62.90	98.75	62.02
Y 167.0	81.71	62.99	96.30	62.14
Y 168.0	79.37	63.01	93.84	62.21
Y 169.0	77.28	63.05	91.48	62.28
Y 170.0	74.96	63.13	89.17	62.32
Y 171.0	72.75	63.11	86.93	62.42
Y 172.0	70.62	63.15	84.70	62.47
Y 173.0	68.38	63.19	82.56	62.48
Y 174.0	66.39	63.24	80.43	62.55
Y 175.0	64.81	63.31	77.88	62.58
Y 176.0	63.84	63.31	75.30	62.63
Y 177.0	63.45	63.32	73.19	62.69
Y 178.0	63.76	63.31	71.40	62.72
Y 179.0	64.32	63.34	69.43	62.79
Y 180.0	65.62	65.62	65.62	65.62
