

Indoor Luminaire Photometric Data

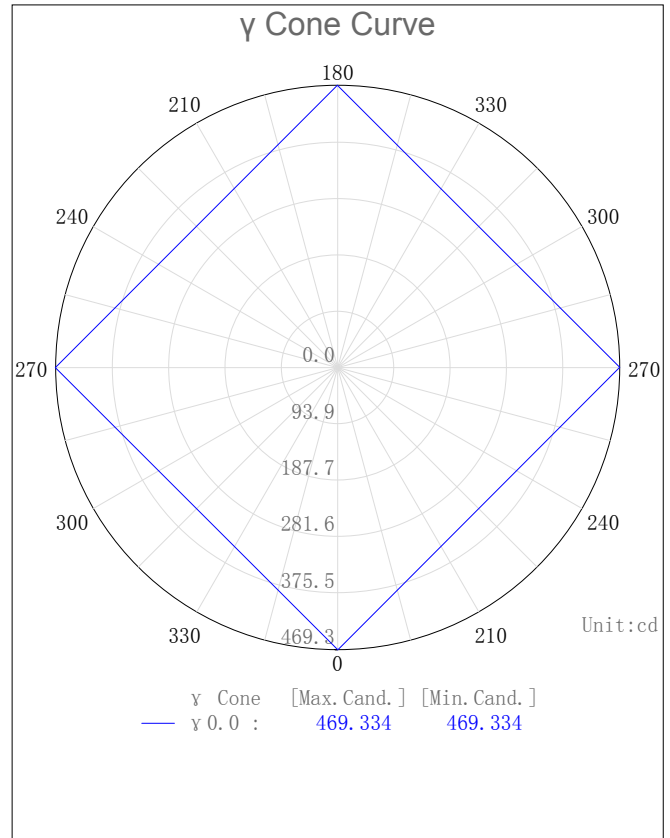
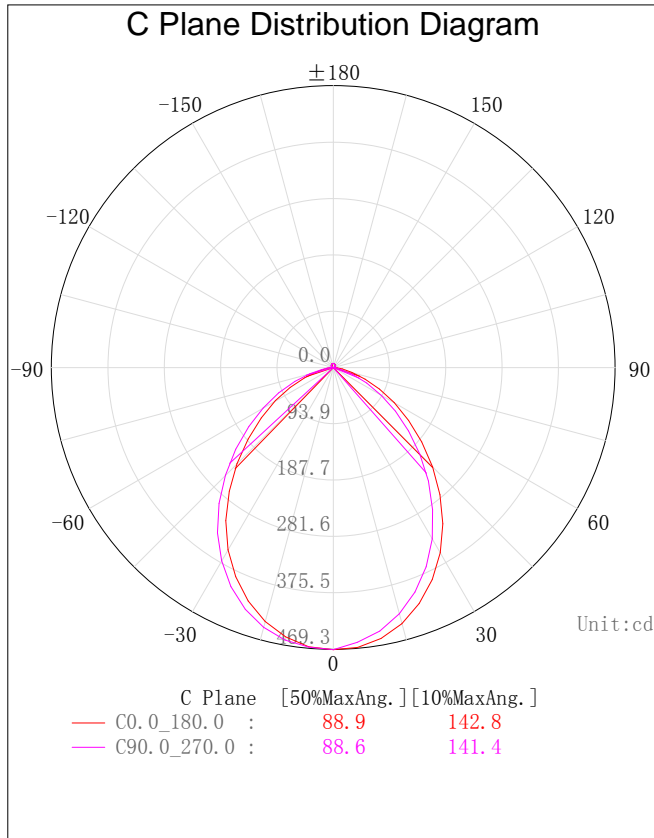
Description Information

Lum. Name: ICDLR12W3K-WH	Lum. Catalog: LED DOWNLIGHT	Test ID:
Lamp Name: 3000K	Lamp Catalog: SMD5630	Test Date: 2018/06/06
Manufacture:	ShldAngle(°):	Test Machine:GON-2000
Test Lab:	Frequency(Hz):	Lamp CCT(K): Ra:
Lum. Size(W*L*H):0.108m*0.108m*0.042m	Lum. Area(m2):0.016	Lum. W(kg): 0.000
Test System: C, γ	Test Step: C=90.0 γ=5.0	Temp.(°C): 25
		Humidity(%):

Character Parameter

Lamp Speciality Parameter		Luminaire Speciality Parameter	
Rated Flux(lm): 996.860	Luminaire Flux: 996.860lm	Field Angle(10%Imax): 142.8	
Rated Power(W):	Luminaire Efficiency: 100.00%	Down Lumens&Percent: 972.621lm 97.57%	
Rated Voltage(V):	Luminaire EER(lm/W): 80.005	Up Lumens&Percent: 24.239lm 2.43%	
Tested Power(W): 12.460	Max. Cand. (cd): 469.334	S/MH: C0_a180=1.134 C90_270=1.128	
Lamps' Inside: 1	Max Cand@Ang. (°): C=0.0 γ=0.0	CIE Type: Semi-Direct	
Tested Electric:U=241.0V, I=0.054A, PF=0.000	Beam Angle(50%Imax): 88.9	ErP Φuse(90°): 626.040lm	
Lamp Size(W*L*H):0.108m*0.108m*0.042m	Left=-44.0 Right=44.9	IRF: 131.115%	

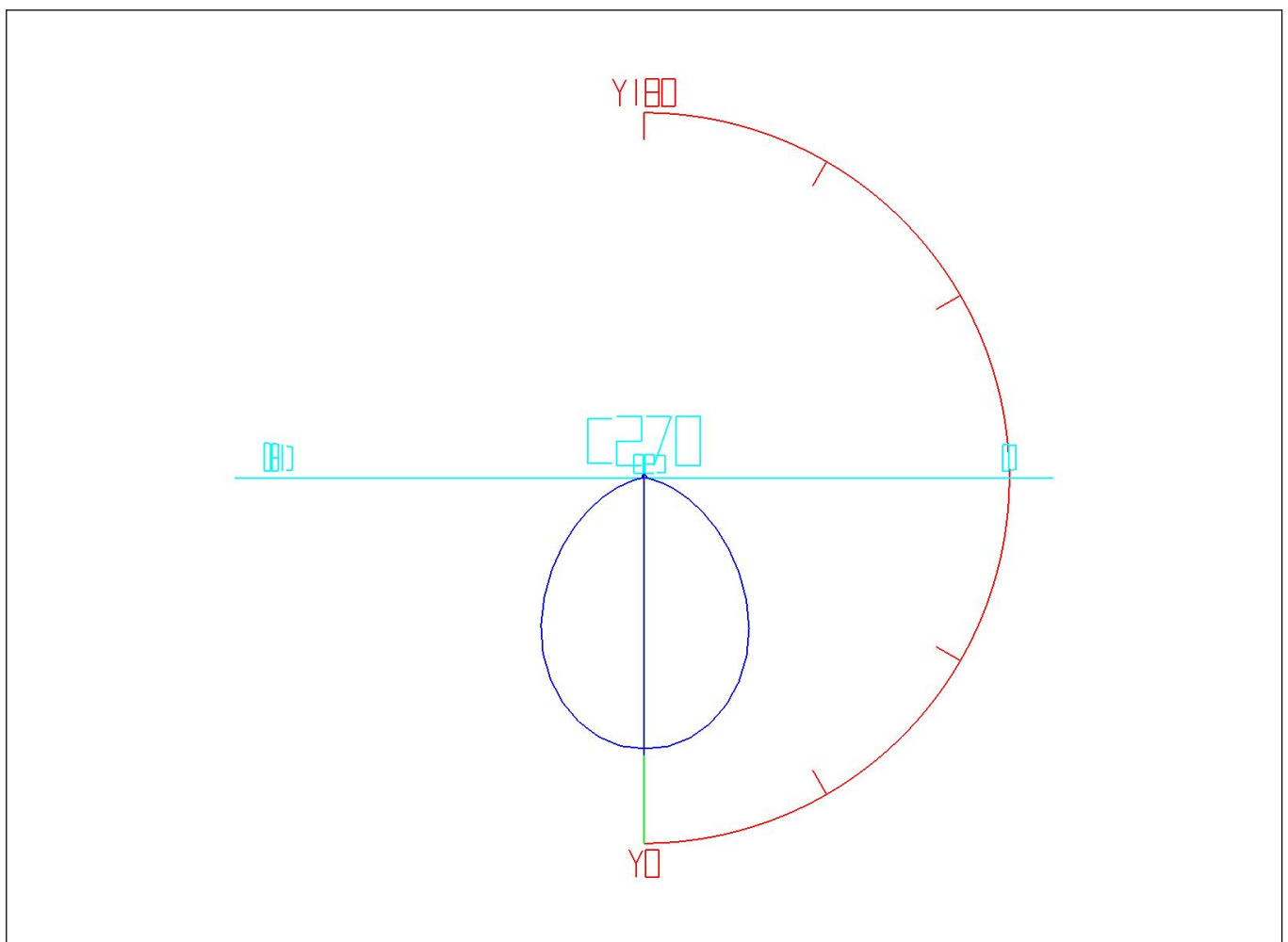
Lighting Distribution Diagram



3D Light Intensity Distribution Modal

Lum. Name: ICDLR12W3K-WH	Lum. Catalog: LED DOWNLIGHT	Test ID:
Lamp Name: 3000K	Lamp Catalog: SMD5630	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2018/06/06

3D Light Intensity Distribution Modal



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

IES Indoor Report

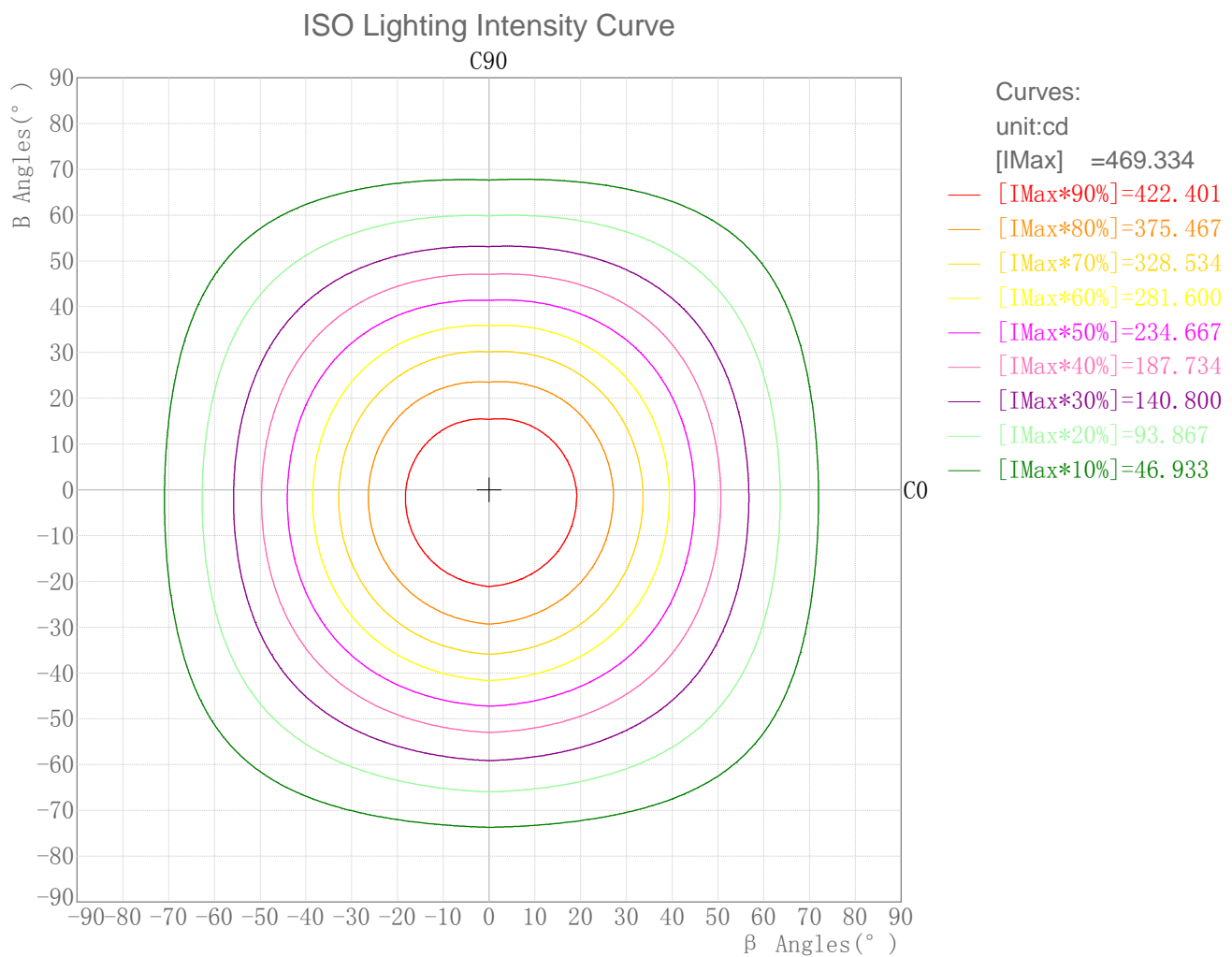
Photometric Filename:ICDLR12W3K-WH.IES

Zonal Flux Tabulation

Zone (y)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
0.0-5.0	11.17	11.17	1.12	1.12
5.0-10.0	32.92	44.09	3.30	4.42
10.0-15.0	52.95	97.03	5.31	9.73
15.0-20.0	70.23	167.27	7.05	16.78
20.0-25.0	83.91	251.17	8.42	25.20
25.0-30.0	93.32	344.49	9.36	34.56
30.0-35.0	97.97	442.46	9.83	44.39
35.0-40.0	97.63	540.09	9.79	54.18
40.0-45.0	92.79	632.89	9.31	63.49
45.0-50.0	84.41	717.30	8.47	71.96
50.0-55.0	73.45	790.75	7.37	79.32
55.0-60.0	60.86	851.60	6.11	85.43
60.0-65.0	47.41	899.02	4.76	90.18
65.0-70.0	33.80	932.82	3.39	93.58
70.0-75.0	21.18	953.99	2.12	95.70
75.0-80.0	11.20	965.19	1.12	96.82
80.0-85.0	5.13	970.32	0.51	97.34
85.0-90.0	2.30	972.62	0.23	97.57
90.0-95.0	1.36	973.98	0.14	97.71
95.0-100.0	1.31	975.30	0.13	97.84
100.0-105.0	1.38	976.68	0.14	97.98
105.0-110.0	1.48	978.16	0.15	98.12
110.0-115.0	1.58	979.74	0.16	98.28
115.0-120.0	1.67	981.41	0.17	98.45
120.0-125.0	1.74	983.15	0.17	98.62
125.0-130.0	1.78	984.93	0.18	98.80
130.0-135.0	1.79	986.72	0.18	98.98
135.0-140.0	1.76	988.48	0.18	99.16
140.0-145.0	1.69	990.17	0.17	99.33
145.0-150.0	1.58	991.75	0.16	99.49
150.0-155.0	1.44	993.19	0.14	99.63
155.0-160.0	1.25	994.43	0.13	99.76
160.0-165.0	1.02	995.46	0.10	99.86
165.0-170.0	0.77	996.22	0.08	99.94
170.0-175.0	0.48	996.70	0.05	99.98
175.0-180.0	0.16	996.86	0.02	100.00

Rectangle ISO Lighting Intensity Diagram

Lum. Name: ICDLR12W3K-WH	Lum. Catalog: LED DOWNLIGHT	Test ID:
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Manufacture:	Test Machine:GON-2000	Test Date: 2018/06/06

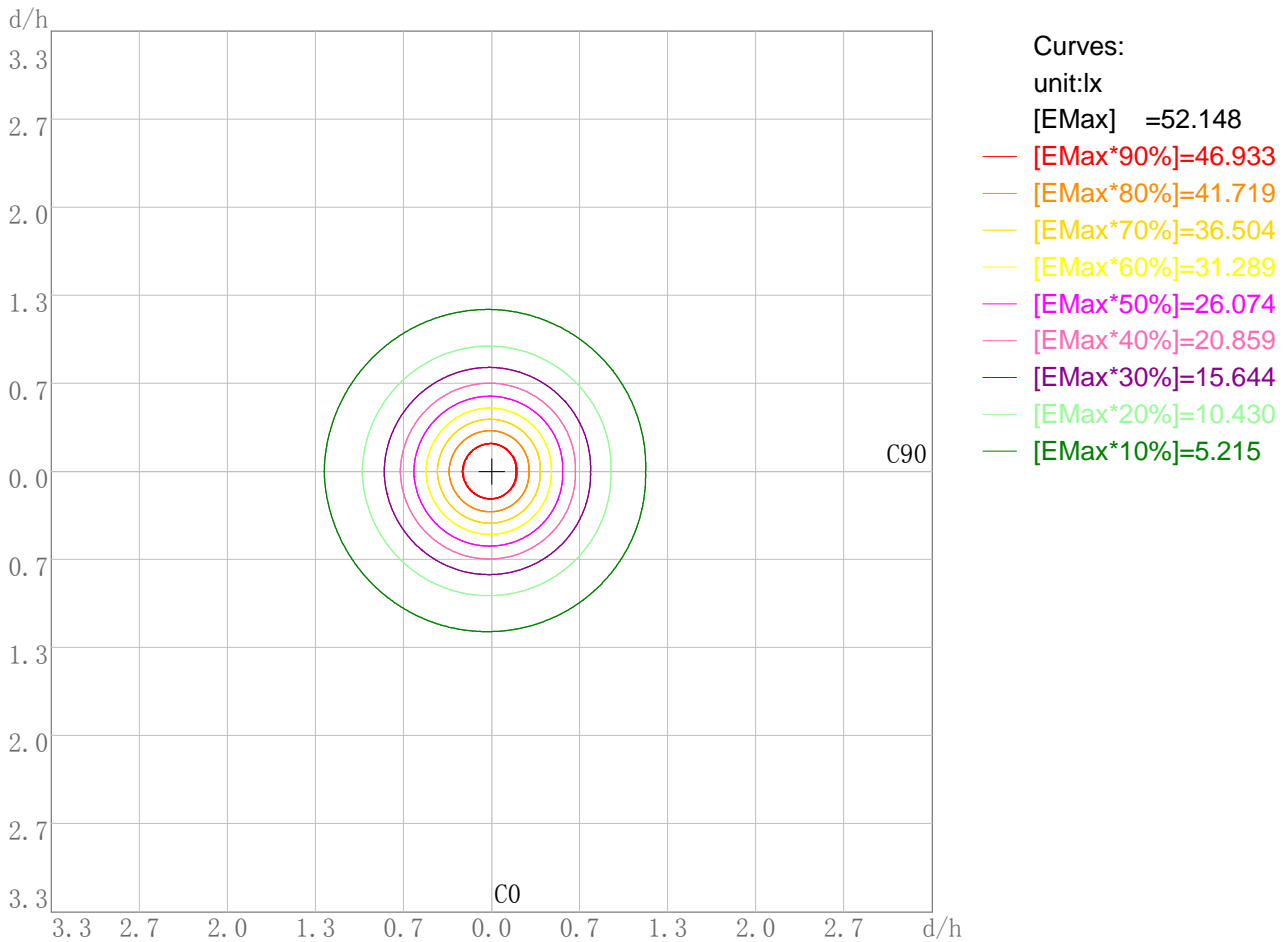


Maximum Light Intensity(cd): 469.33
Maximum Cand.@Angle: H=0.0°,V=0.0°

Plane ISO-Illuminance Diagram

Lum. Name: ICDLR12W3K-WH	Lum. Catalog: LED DOWNLIGHT	Test ID:
Lamp Name: 3000K	Lamp Catalog: SMD5630	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2018/06/06

Plane ISO-Illuminance Curve

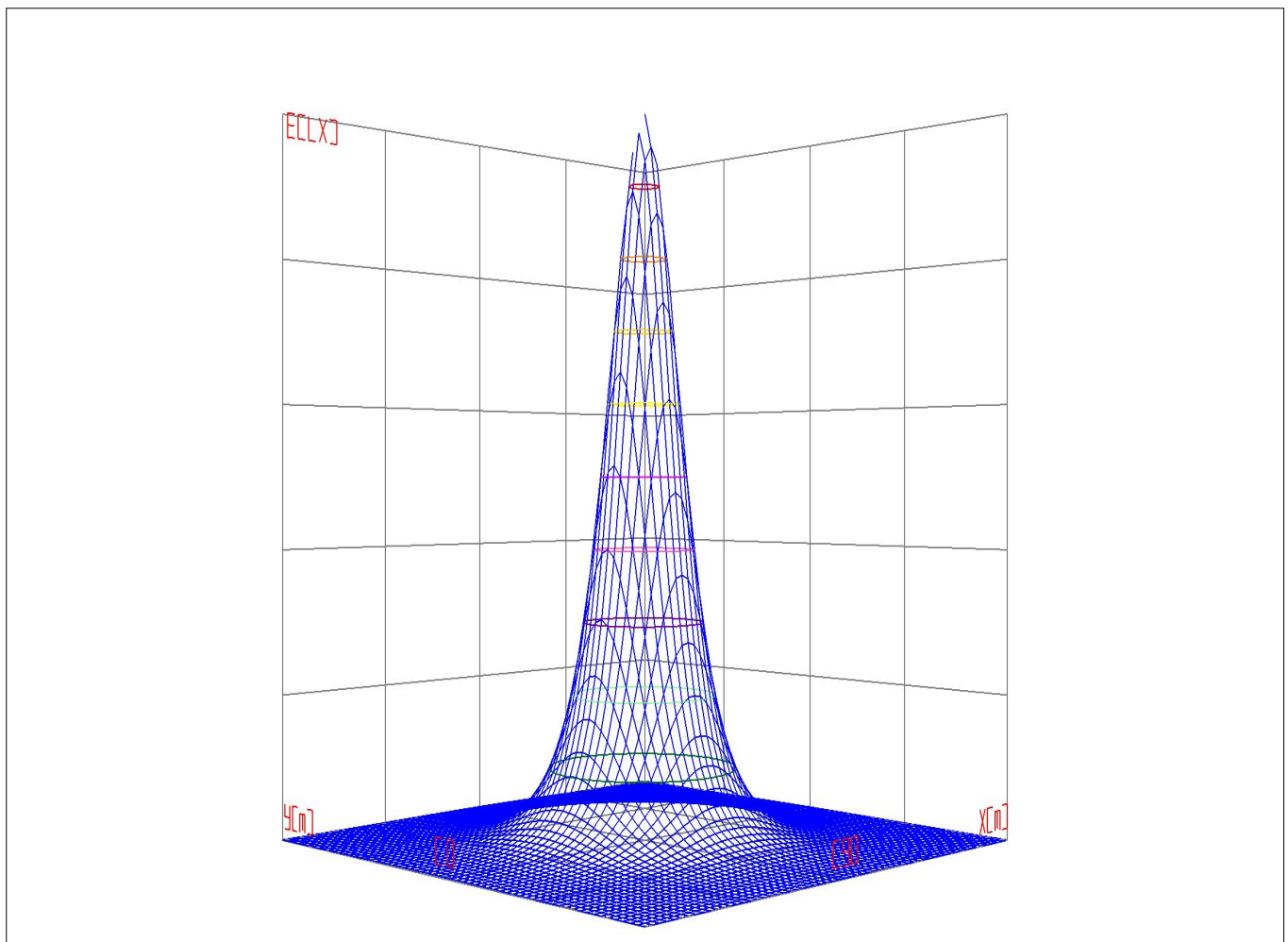


Working Plane Luminaire Mounting Height(m): 3.00
Working Plane Maximum Illuminance(lx): 52.15
Working Plane Maximum Illuminance Position(d/h):H0.0 V0.0

3D Plane ISO Illuminance Diagram

Lum. Name: ICDLR12W3K-WH	Lum. Catalog: LED DOWNLIGHT	Test ID:
Lamp Name: 3000K	Lamp Catalog: SMD5630	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2018/06/06

3D Plane Illuminance Modal

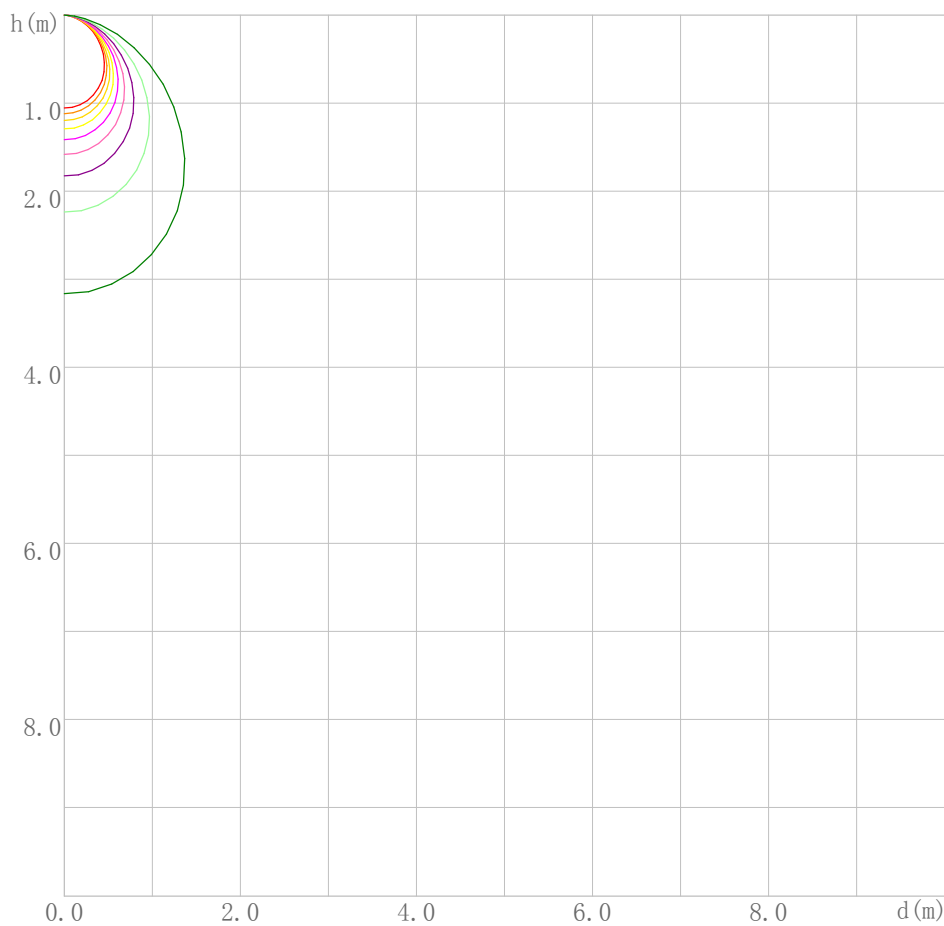


Curves: 3D Model — 90% — 80% — 70% — 60% — 50% — 40% — 30% — 20% — 10% —
View Angles(deg): 0 Height(m): 3.0 Distance(m): 10.0

Space ISO Illuminance Diagram

Lum. Name: ICDLR12W3K-WH	Lum. Catalog: LED DOWNLIGHT	Test ID:
Lamp Name: 3000K	Lamp Catalog: SMD5630	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2018/06/06

Space ISO Illuminance Curve

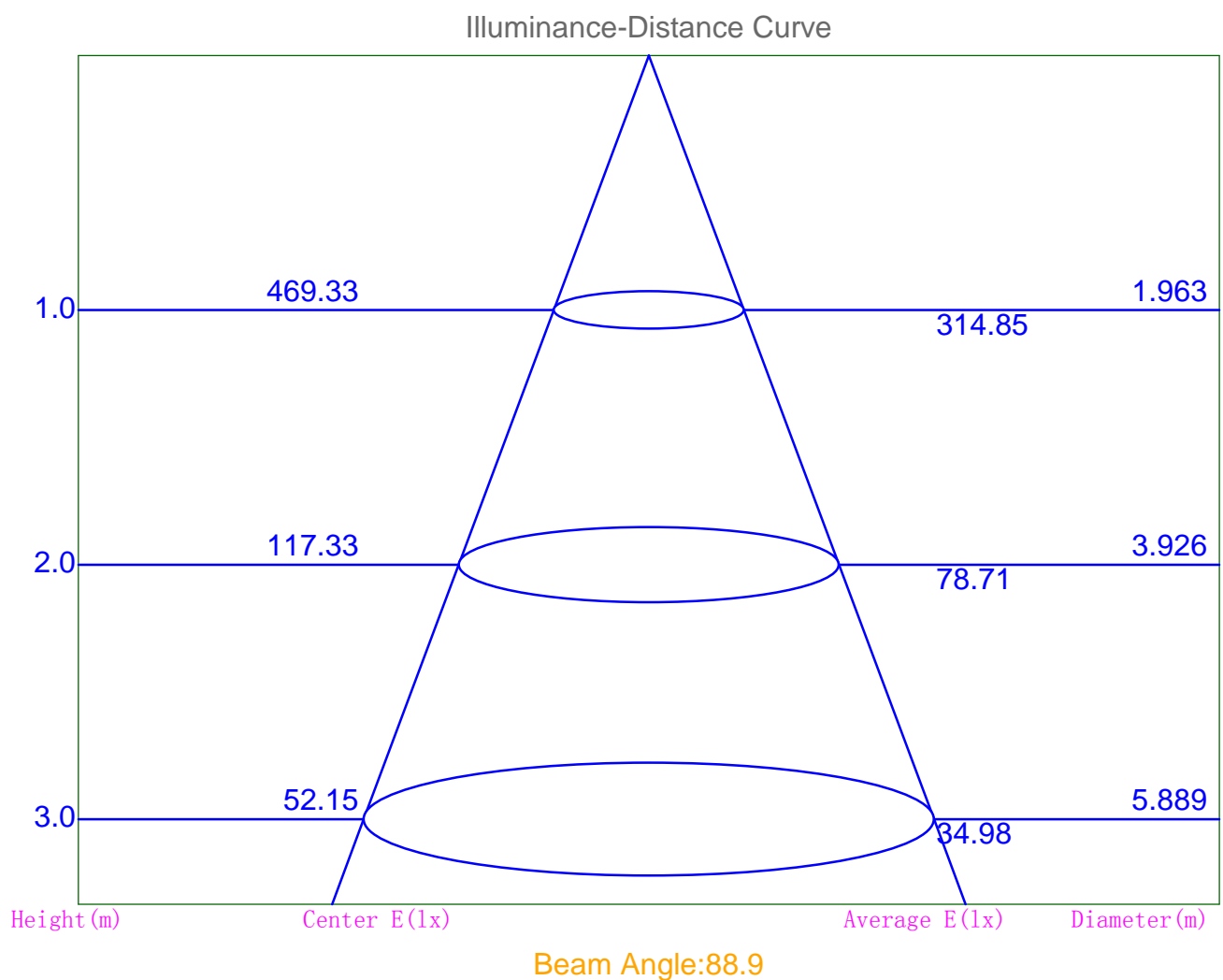


- Curves:
unit:lx
[E_{Max}] =469.334
- [E_{Max}*90%]=422.401
 - [E_{Max}*80%]=375.467
 - [E_{Max}*70%]=328.534
 - [E_{Max}*60%]=281.600
 - [E_{Max}*50%]=234.667
 - [E_{Max}*40%]=187.734
 - [E_{Max}*30%]=140.800
 - [E_{Max}*20%]=93.867
 - [E_{Max}*10%]=46.933

Space Plane Maximum Illuminance and @Angle:469.33,0.0deg
Plane Maximum Lighting Intensity and @Angle:469.334cd,0deg

Illuminance-Distance Diagram

Lum. Name: ICDLR12W3K-WH	Lum. Catalog: LED DOWNLIGHT	Test ID:
Lamp Name: 3000K	Lamp Catalog: SMD5630	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2018/06/06



Indoor Luminance Limiting Curves

Lum. Name: ICDLR12W3K-WH	Lum. Catalog: LED DOWNLIGHT	Test ID:
Lamp Name: 3000K	Lamp Catalog: SMD5630	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2018/06/06

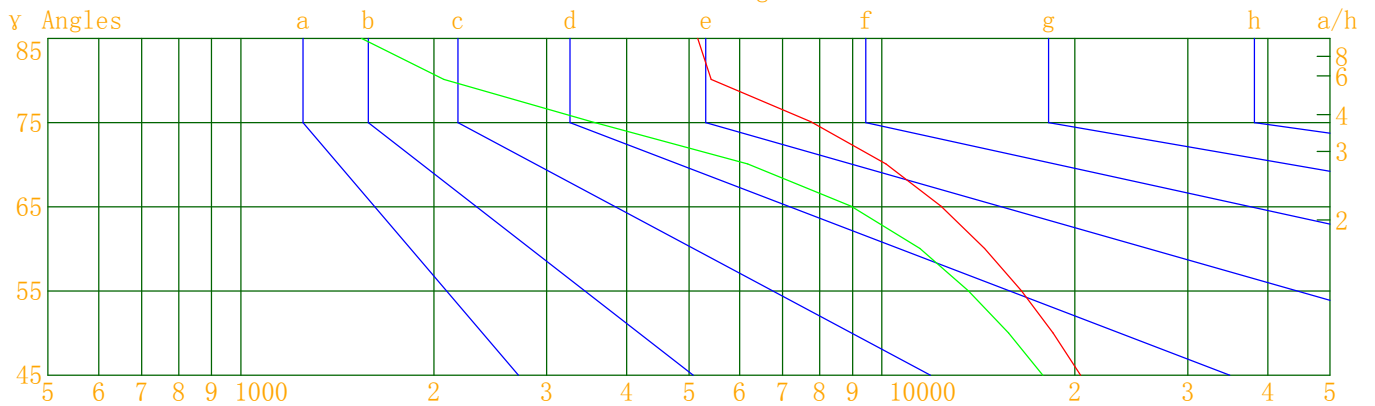
Glare Grade Table

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	20411	18485	16502	14464	12364	10153	7741	5416	5162
C90	17822	15761	13641	11463	8952	6172	3523	2074	1543

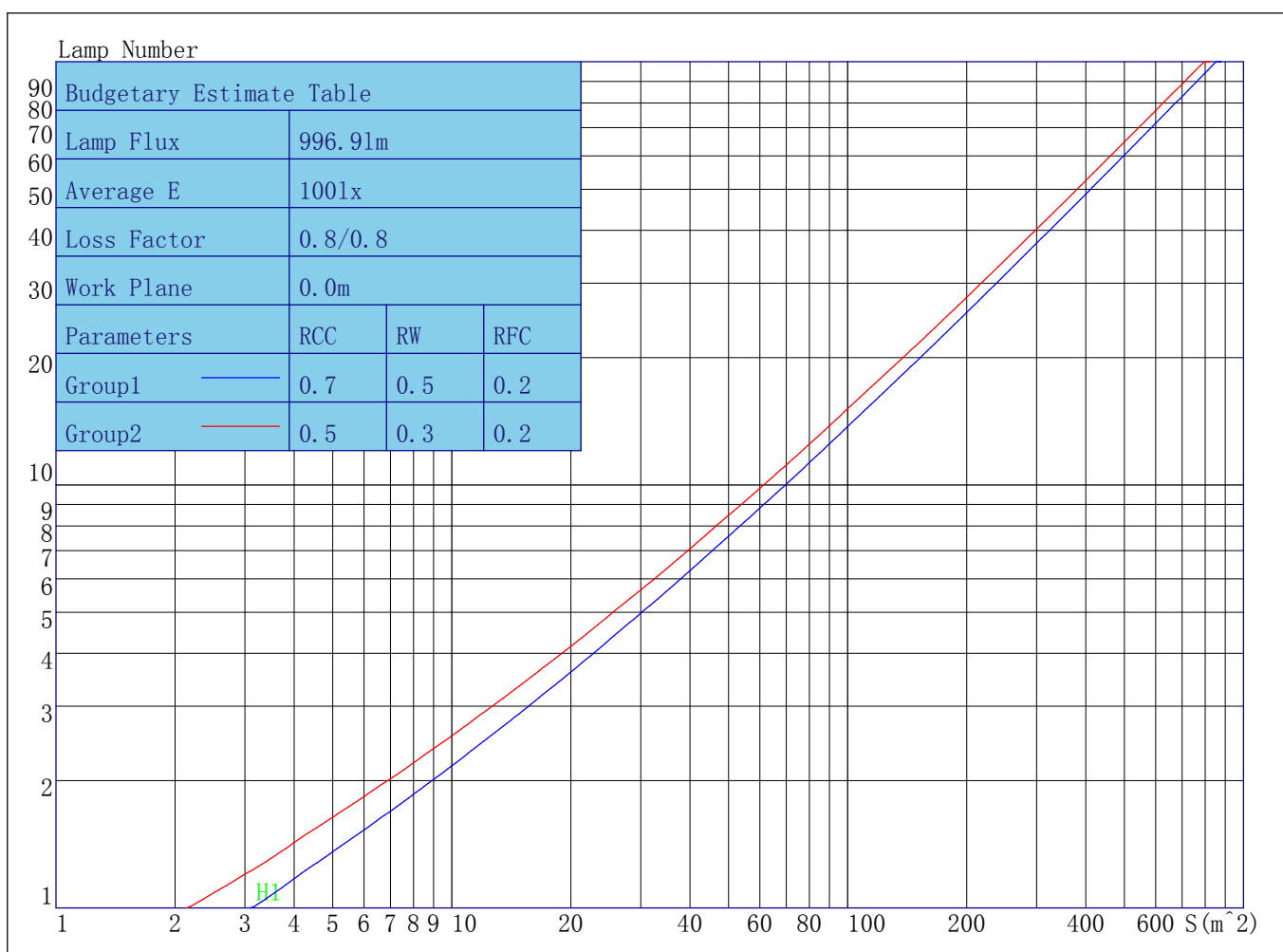
Luminance Limiting Curve



Luminous Size: Length(m)=0.108 Width(m)=0.108 Height(m)=0.042 Area(m^2)=0.016200
 Luminous Type: Without Luminous Side
 Luminous Curves: C0-C180 Color: — C90-C270 Color: —

Indoor Budgetary Estimate Table

Lum. Name: ICDLR12W3K-WH	Lum. Catalog: LED DOWNLIGHT	Test ID:
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Manufacture:	Test Machine:GON-2000	Test Date: 2018/06/06



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

Indoor Coefficient of Utilization Table

Lum. Name: ICDLR12W3K-WH	Lum. Catalog: LED DOWNLIGHT	Test ID:
Lamp Name: 3000K	Lamp Catalog: SMD5630	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2018/06/06

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	118	118	118	118	115	115	115	115	110	110	110	105	105	105	100	100	100	98
1	110	106	102	99	107	103	100	97	99	96	93	94	92	90	90	89	87	85
2	101	94	88	83	98	92	86	82	88	83	80	84	81	77	81	78	75	73
3	93	84	76	71	91	82	75	70	79	73	68	76	71	67	73	69	66	63
4	86	75	67	61	84	74	66	61	71	65	60	68	63	59	66	61	58	55
5	80	68	60	54	77	67	59	53	64	58	52	62	56	52	60	55	51	49
6	74	62	53	47	72	60	53	47	59	52	47	57	51	46	55	50	45	43
7	69	56	48	42	67	55	48	42	54	47	42	52	46	41	50	45	41	39
8	64	52	44	38	63	51	43	38	49	42	38	48	42	37	47	41	37	35
9	60	48	40	35	59	47	39	34	46	39	34	44	38	34	43	38	34	32
10	57	44	37	32	55	43	36	31	42	36	31	41	35	31	40	35	31	29

Unified Glare Rating Table

Lum. Name: ICDLR12W3K-WH	Lum. Catalog: LED DOWNLIGHT	Test ID:
Lamp Name: 3000K	Lamp Catalog: SMD5630	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2018/06/06

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	36.1	39.2	37.0	40.0	40.7	35.0	38.1	35.9	38.9	39.6
Y=3H	38.7	41.8	39.6	42.6	43.3	36.8	39.9	37.7	40.7	41.4
Y=4H	40.3	43.0	41.2	43.8	44.5	38.0	40.6	38.8	41.4	42.1
Y=6H	40.9	43.5	41.8	44.3	45.0	38.1	40.7	39.0	41.5	42.2
Y=8H	41.1	43.6	41.9	44.4	45.1	38.1	40.7	39.0	41.5	42.2
Y=12H	41.2	43.7	42.0	44.5	45.2	38.1	40.6	39.0	41.4	42.2
X=4H Y=2H	36.8	39.4	37.7	40.2	41.0	36.0	38.6	36.8	39.4	40.1
Y=3H	39.5	42.2	40.4	43.0	43.7	37.9	40.6	38.8	41.4	42.1
Y=4H	39.5	40.9	40.6	42.0	42.9	37.4	38.9	38.6	39.9	40.8
Y=6H	40.3	41.6	41.5	42.6	43.6	37.8	39.1	38.9	40.1	41.1
Y=8H	40.6	41.9	41.7	42.9	43.8	37.9	39.2	39.0	40.2	41.1
Y=12H	39.9	40.9	41.2	42.1	43.1	37.0	38.0	38.2	39.2	40.2
X=8H Y=4H	39.5	40.8	40.7	41.8	42.8	37.6	38.8	38.7	39.8	40.8
Y=6H	39.6	40.4	40.8	41.6	42.6	37.2	38.0	38.4	39.2	40.2
Y=8H	39.4	40.1	40.7	41.3	42.4	36.8	37.5	38.1	38.7	39.8
Y=12H	39.7	40.4	41.0	41.6	42.7	36.9	37.6	38.2	38.8	39.9
X=12H Y=4H	38.6	39.6	39.8	40.8	41.8	36.6	37.6	37.9	38.8	39.8
Y=6H	39.1	39.8	40.3	41.0	42.1	36.7	37.4	38.0	38.6	39.7
Y=8H	39.4	40.1	40.7	41.3	42.4	36.8	37.5	38.1	38.7	39.8
Variations with the objver position at spacings										
S=1.0H	3.5/-1.5					3.7/-1.1				
S=1.5H	-1.5/-23.5					-0.4/-21.4				
S=2.0H	-1.5/-23.5					-0.4/-21.4				

IES Indoor Report
Photometric Filename:ICDLR12W3K-WH.IES

Candela Tabulation

V/H	C0.0	C90.0	C180.0	C270.0
Y 0.0	469.33	469.33	469.33	469.33
Y 5.0	467.64	459.27	466.66	467.33
Y 10.0	457.94	445.34	455.48	460.77
Y 15.0	441.31	424.50	437.42	447.56
Y 20.0	418.21	397.70	413.83	428.13
Y 25.0	389.65	365.99	384.35	402.17
Y 30.0	356.14	329.68	350.51	371.20
Y 35.0	317.76	288.85	311.25	335.85
Y 40.0	276.26	246.30	268.92	295.43
Y 45.0	233.81	204.15	226.39	253.40
Y 50.0	192.49	164.12	184.96	211.64
Y 55.0	153.33	126.75	146.31	171.61
Y 60.0	117.16	92.85	110.79	134.38
Y 65.0	84.65	61.29	78.78	100.21
Y 70.0	56.25	34.20	50.98	67.63
Y 75.0	32.46	14.77	28.06	39.72
Y 80.0	15.24	5.83	12.14	19.17
Y 85.0	7.29	2.18	5.04	8.60
Y 90.0	2.95	1.53	1.66	4.37
Y 95.0	2.86	1.78	1.81	2.96
Y 100.0	2.93	2.00	2.05	2.90
Y 105.0	3.06	2.39	2.32	3.03
Y 110.0	3.32	2.70	2.68	3.19
Y 115.0	3.53	3.05	3.07	3.43
Y 120.0	3.83	3.43	3.38	3.69
Y 125.0	4.16	3.77	3.81	3.99
Y 130.0	4.43	4.16	4.17	4.28
Y 135.0	4.80	4.48	4.51	4.59
Y 140.0	5.05	4.83	4.89	4.86
Y 145.0	5.38	5.13	5.19	5.18
Y 150.0	5.65	5.43	5.55	5.52
Y 155.0	5.95	5.75	5.84	5.71
Y 160.0	6.20	5.99	6.12	5.97
Y 165.0	6.42	6.28	6.41	6.25
Y 170.0	6.67	6.45	6.60	6.52
Y 175.0	6.81	6.61	6.76	6.71
Y 180.0	6.80	6.80	6.80	6.80
