

**Indoor Luminaire Photometric Data**

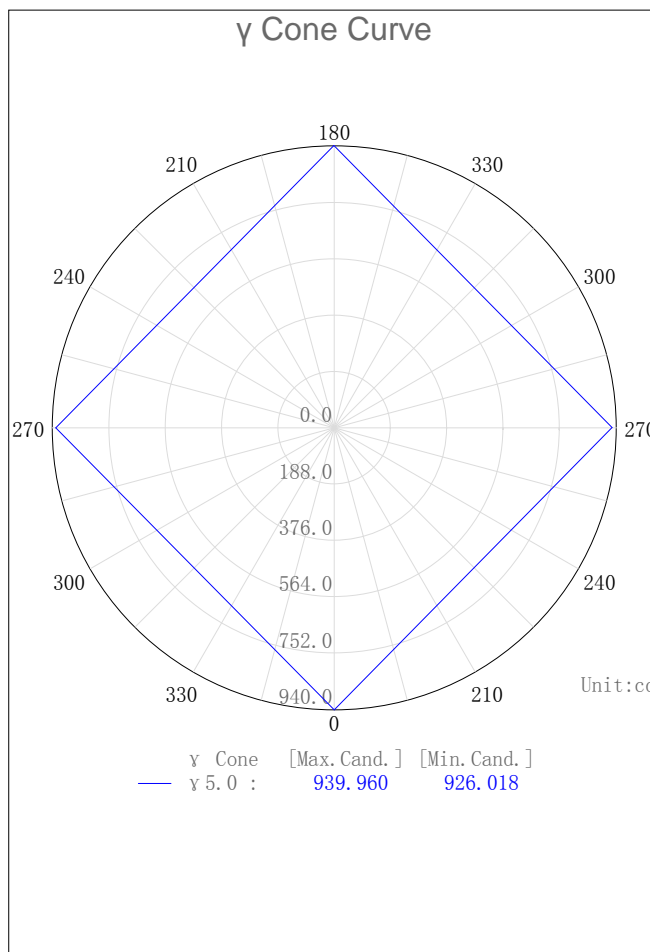
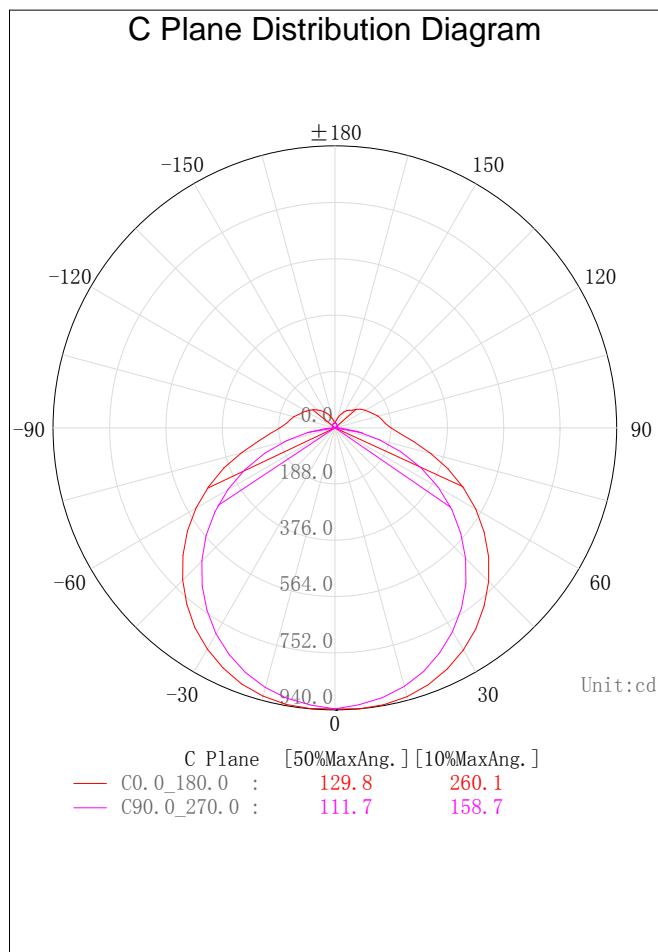
**Description Information**

Lum. Name: B40W-CC-MS-E 3K	Lum. Catalog: LED BATTEN	Test ID:
Lamp Name: 3000K	Lamp Catalog: SMD2835	Test Date: 2018/11/01
Manufacture:	ShldAngle(°):	Test Machine: GON-2000
Test Lab:	Frequency (Hz):	Lamp CCT (K): Ra:
Lum. Size (W*L*H): 0.080m*1.200m*0.065m	Lum. Area (m2): 0.174	Lum. W (kg): 2.000
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): 3394.550	Luminaire Flux: 3394.553lm	Field Angle (10%Imax): 260.1
Rated Power (W):	Luminaire Efficiency: 100.00%	Down Lumens&Percent: 3019.562lm 88.95%
Rated Voltage (V):	Luminaire EER (lm/W): 77.732	Up Lumens&Percent: 374.991lm 11.05%
Tested Power (W): 43.670	Max. Cand. (cd): 939.960	S/MH: C0_a180=1.352 C90_270=1.253
Lamps' Inside: 1	Max Cand@Ang. (°): C=0.0 γ=5.0	CIE Type: General Diffuse
Tested Electric: U=240.5V, I=0.195A, PF=0.000	Beam Angle (50%Imax): 129.8	ErP Φ use (120°): 2226.154lm
Lamp Size (W*L*H): 0.080m*1.200m*0.065m	Left=-64.6 Right=65.2	IRF: 102.736%

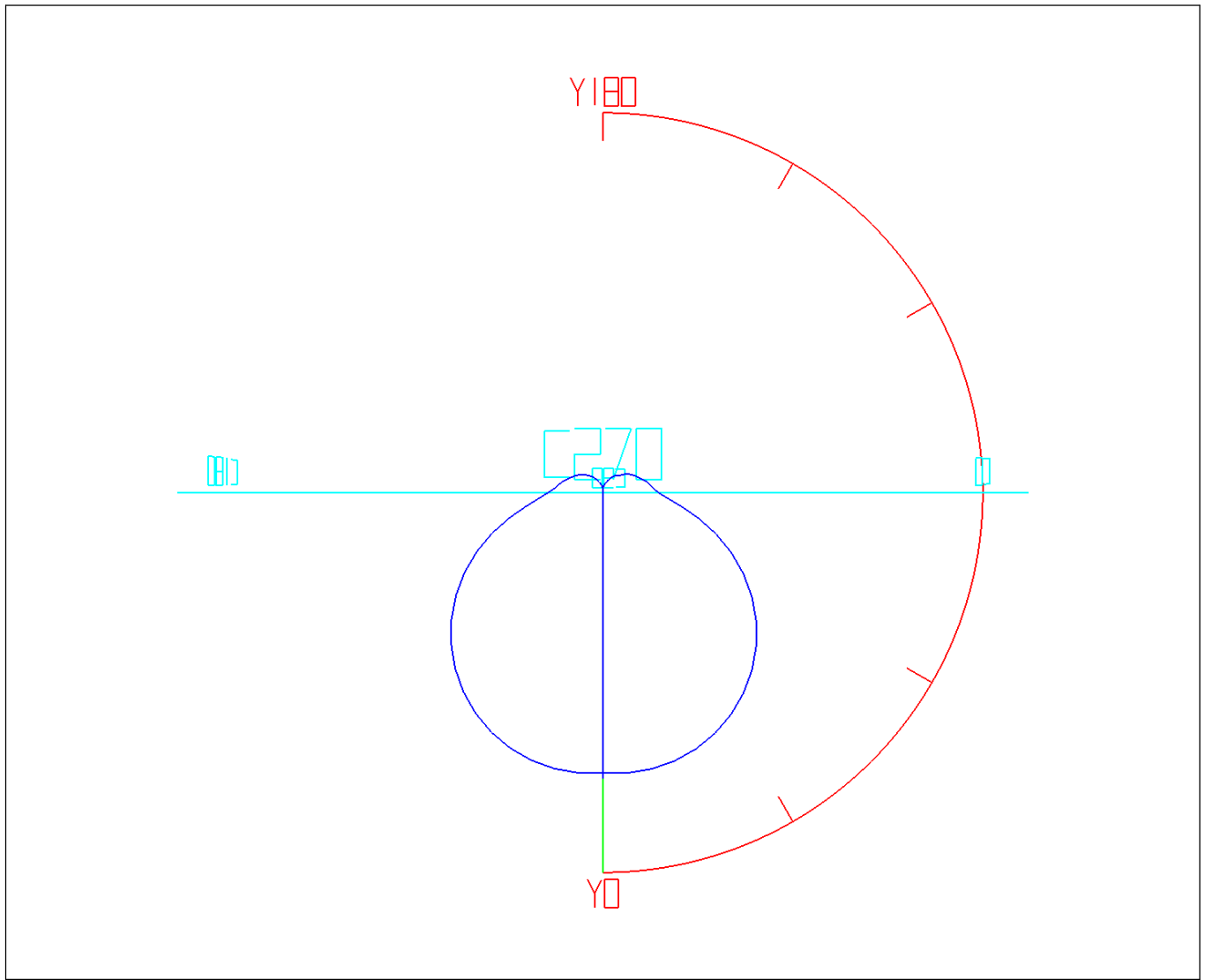
**Lighting Distribution Diagram**



### 3D Light Intensity Distribution Modal

Lum. Name: B40W-CC-MS-E 3K	Lum. Catalog: LED BATTEN	Test ID:
Lamp Name: 3000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine: GON-2000	Test Date: 2018/11/01

### 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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# IES Indoor Report

Photometric Filename: B40W-CC-MS-E 3K.IES

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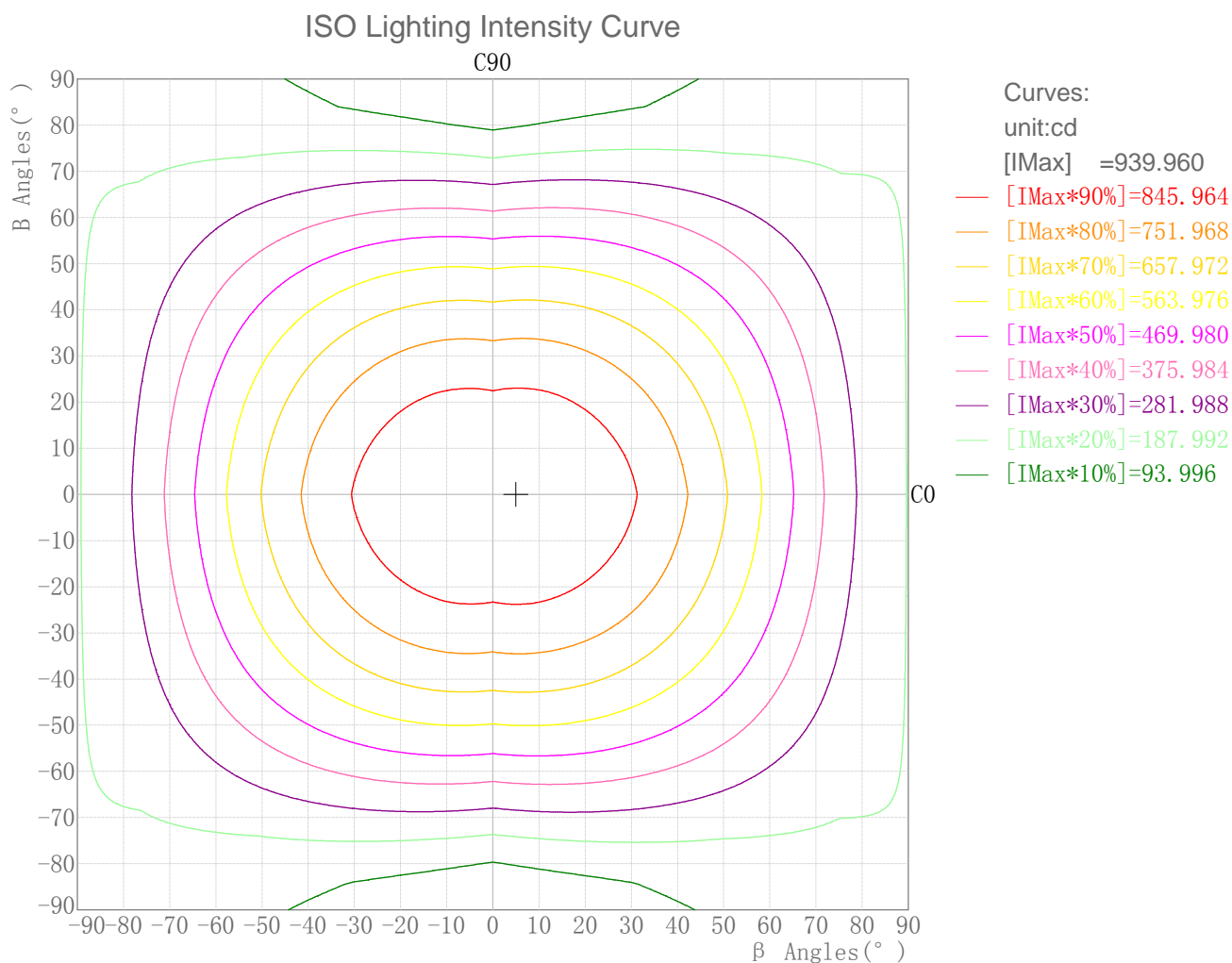
## Zonal Flux Tabulation

Zone ( y )	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
0.0-5.0	22.35	22.35	0.66	0.66
5.0-10.0	66.50	88.85	1.96	2.62
10.0-15.0	108.91	197.75	3.21	5.83
15.0-20.0	148.19	345.95	4.37	10.19
20.0-25.0	183.08	529.03	5.39	15.58
25.0-30.0	212.42	741.45	6.26	21.84
30.0-35.0	235.32	976.76	6.93	28.77
35.0-40.0	250.99	1227.76	7.39	36.17
40.0-45.0	258.87	1486.63	7.63	43.79
45.0-50.0	258.70	1745.33	7.62	51.42
50.0-55.0	250.46	1995.79	7.38	58.79
55.0-60.0	234.32	2230.11	6.90	65.70
60.0-65.0	210.89	2440.99	6.21	71.91
65.0-70.0	181.18	2622.17	5.34	77.25
70.0-75.0	146.92	2769.09	4.33	81.57
75.0-80.0	111.41	2880.49	3.28	84.86
80.0-85.0	79.95	2960.45	2.36	87.21
85.0-90.0	59.12	3019.56	1.74	88.95
90.0-95.0	49.55	3069.11	1.46	90.41
95.0-100.0	45.21	3114.32	1.33	91.74
100.0-105.0	41.86	3156.18	1.23	92.98
105.0-110.0	38.09	3194.27	1.12	94.10
110.0-115.0	34.23	3228.50	1.01	95.11
115.0-120.0	30.73	3259.23	0.91	96.01
120.0-125.0	27.24	3286.47	0.80	96.82
125.0-130.0	23.70	3310.17	0.70	97.51
130.0-135.0	20.02	3330.19	0.59	98.10
135.0-140.0	16.71	3346.91	0.49	98.60
140.0-145.0	13.87	3360.78	0.41	99.01
145.0-150.0	11.03	3371.81	0.32	99.33
150.0-155.0	8.35	3380.16	0.25	99.58
155.0-160.0	6.05	3386.21	0.18	99.75
160.0-165.0	4.11	3390.32	0.12	99.88
165.0-170.0	2.54	3392.86	0.07	99.95
170.0-175.0	1.31	3394.17	0.04	99.99
175.0-180.0	0.39	3394.55	0.01	100.00

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**Rectangle ISO Lighting Intensity Diagram**

Lum. Name: B40W-CC-MS-E 3K	Lum. Catalog: LED BATTEN	Test ID:
Lamp Name: 3000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine: GON-2000	Test Date: 2018/11/01

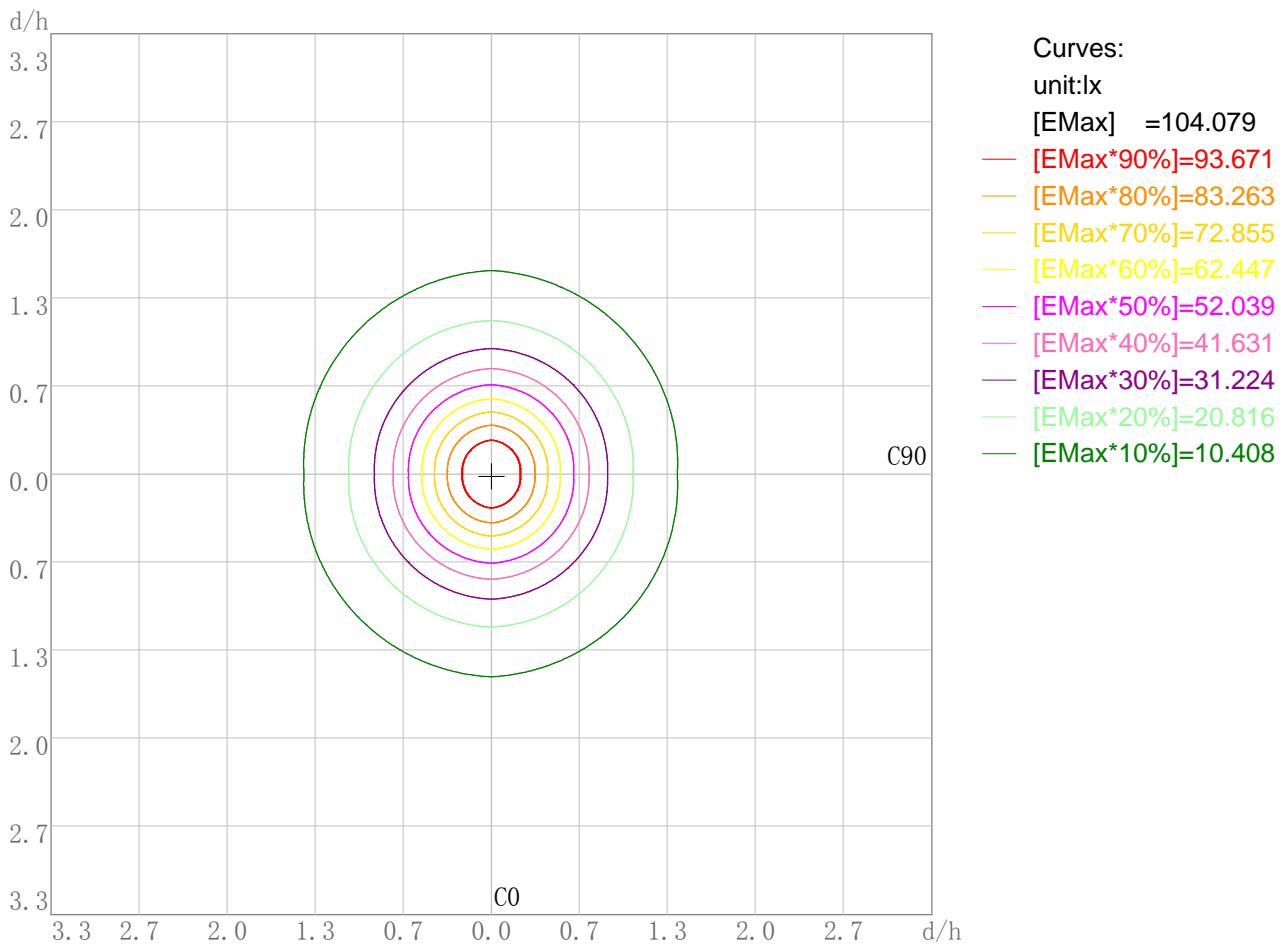


Maximum Light Intensity(cd): 939.96  
Maximum Cand.@Angle: H=5.0°;V=0.0°

**Plane ISO-Illuminance Diagram**

Lum. Name: B40W-CC-MS-E 3K	Lum. Catalog: LED BATTEN	Test ID:
Lamp Name: 3000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine: GON-2000	Test Date: 2018/11/01

**Plane ISO-Illuminance Curve**



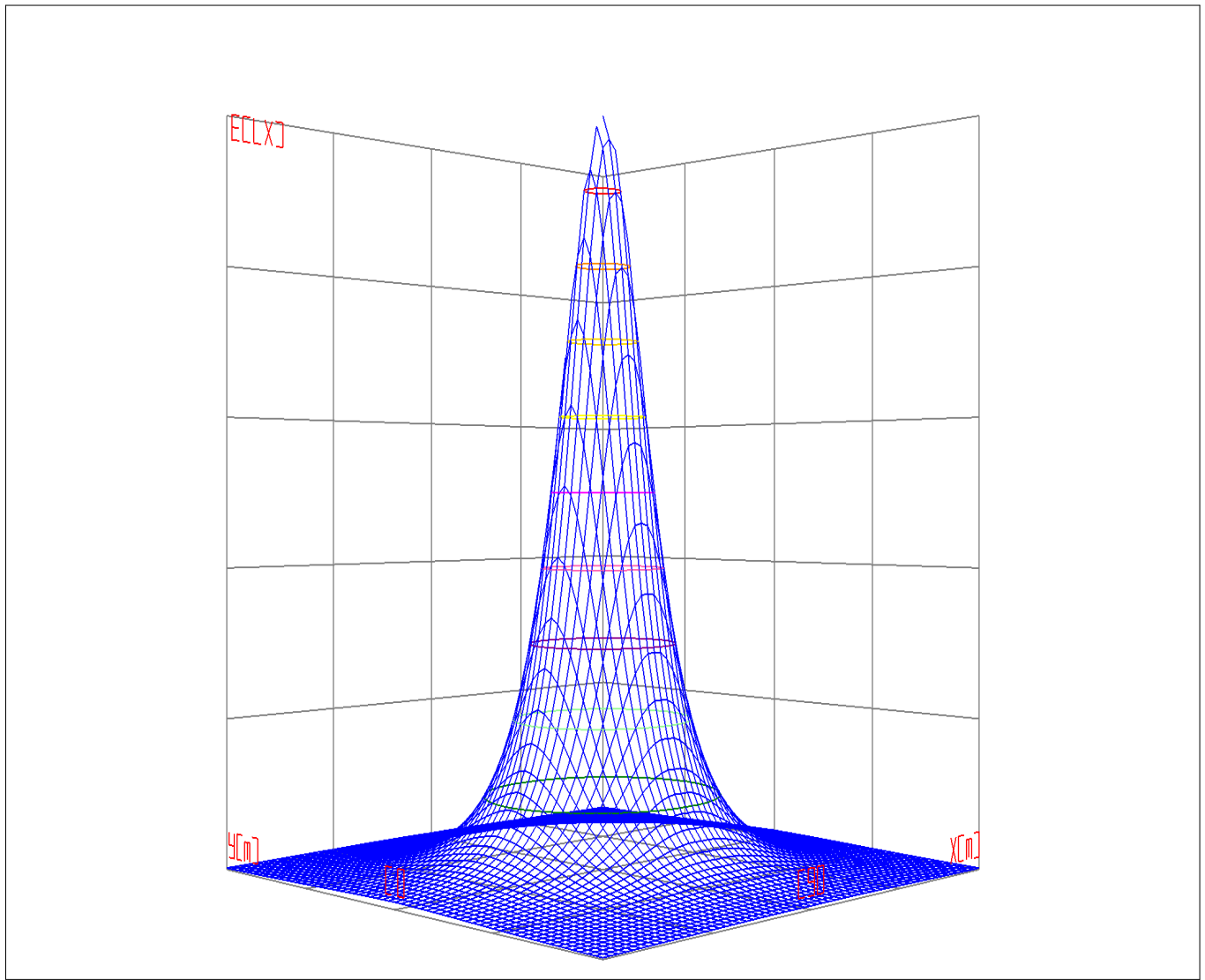
Working Plane Luminaire Mounting Height(m): 3.00  
 Working Plane Maximum Illuminance(lx): 104.08  
 Working Plane Maximum Illuminance Position(d/h): H0.0 V0.0

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### 3D Plane ISO Illuminance Diagram

Lum. Name: B40W-CC-MS-E 3K	Lum. Catalog: LED BATTEN	Test ID:
Lamp Name: 3000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine: GON-2000	Test Date: 2018/11/01

3D Plane Illuminance Modal



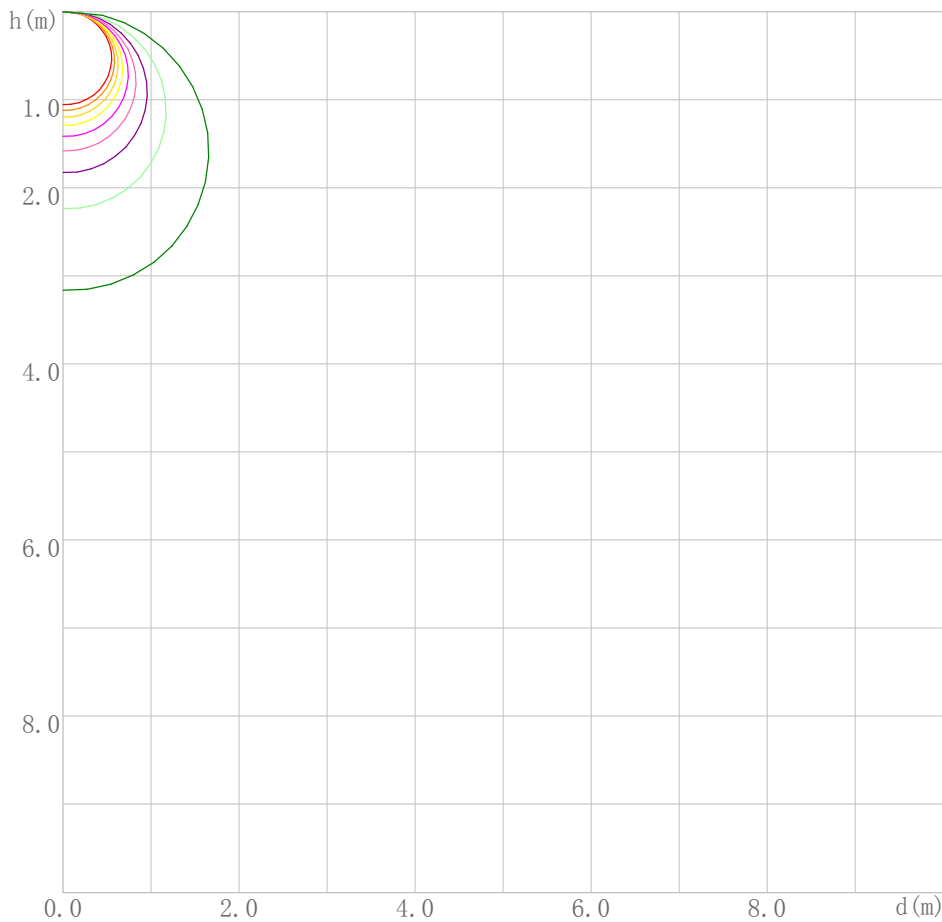
Curves: 3D Model — 90% — 80% — 70% — 60% — 50% — 40% — 30% — 20% — 10% —  
View Angles(deg): 0 Height(m): 3.0 Distance(m): 10.0

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### Space ISO Illuminance Diagram

Lum. Name: B40W-CC-MS-E 3K	Lum. Catalog: LED BATTEN	Test ID:
Lamp Name: 3000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine: GON-2000	Test Date: 2018/11/01

Space ISO Illuminance Curve



- Curves:  
unit:lx  
[EMax] =936.429
- [EMax\*90%]=842.786
  - [EMax\*80%]=749.143
  - [EMax\*70%]=655.500
  - [EMax\*60%]=561.857
  - [EMax\*50%]=468.215
  - [EMax\*40%]=374.572
  - [EMax\*30%]=280.929
  - [EMax\*20%]=187.286
  - [EMax\*10%]=93.643

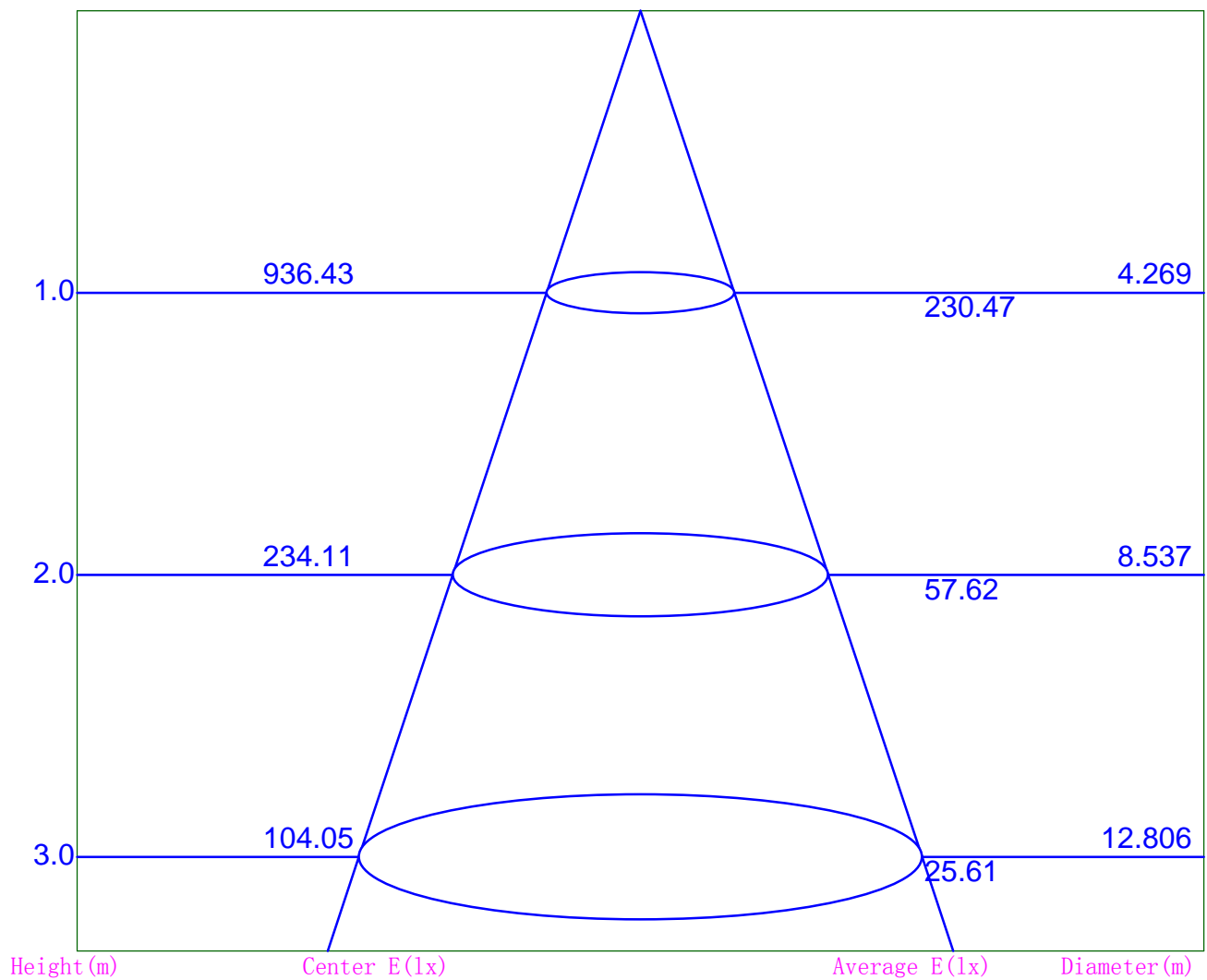
Space Plane Maximum Illuminance and @Angle:936.43,0.0deg  
Plane Maximum Lighting Intensity and @Angle:939.960cd,0deg

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### Illuminance-Distance Diagram

Lum. Name: B40W-CC-MS-E 3K	Lum. Catalog: LED BATTEN	Test ID:
Lamp Name: 3000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine: GON-2000	Test Date: 2018/11/01

Illuminance-Distance Curve



Beam Angle: 129.8

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### Indoor Luminance Limiting Curves

Lum. Name: B40W-CC-MS-E 3K	Lum. Catalog: LED BATTEN	Test ID:
Lamp Name: 3000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine: GON-2000	Test Date: 2018/11/01

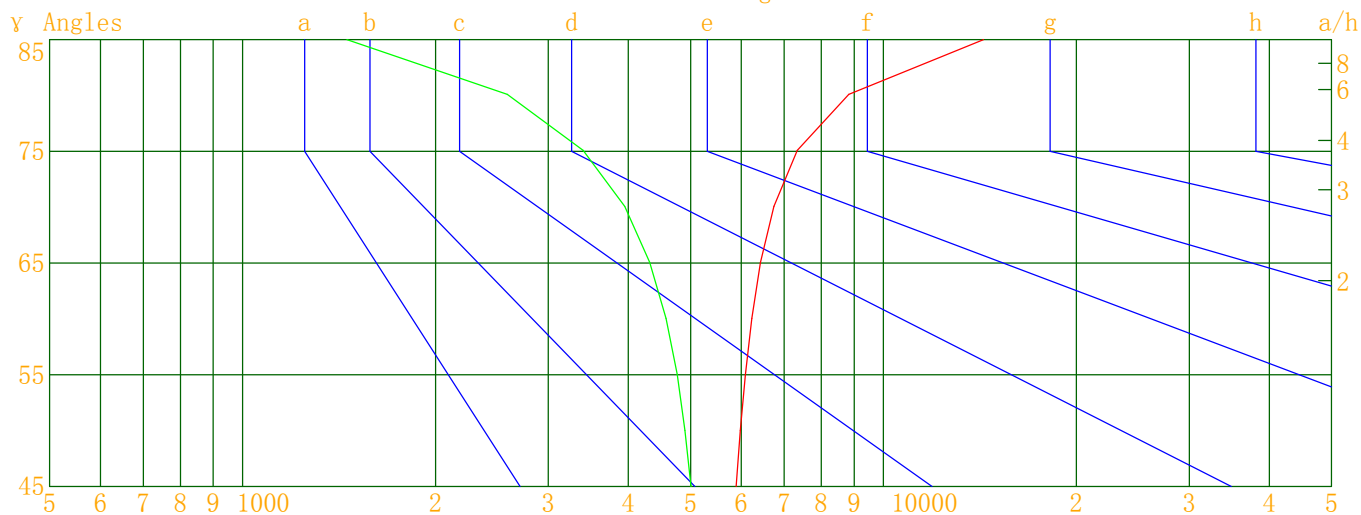
Glare Grade Table

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	5888	5978	6089	6228	6429	6744	7339	8830	14325
C90	5008	4902	4765	4577	4316	3946	3401	2590	1456

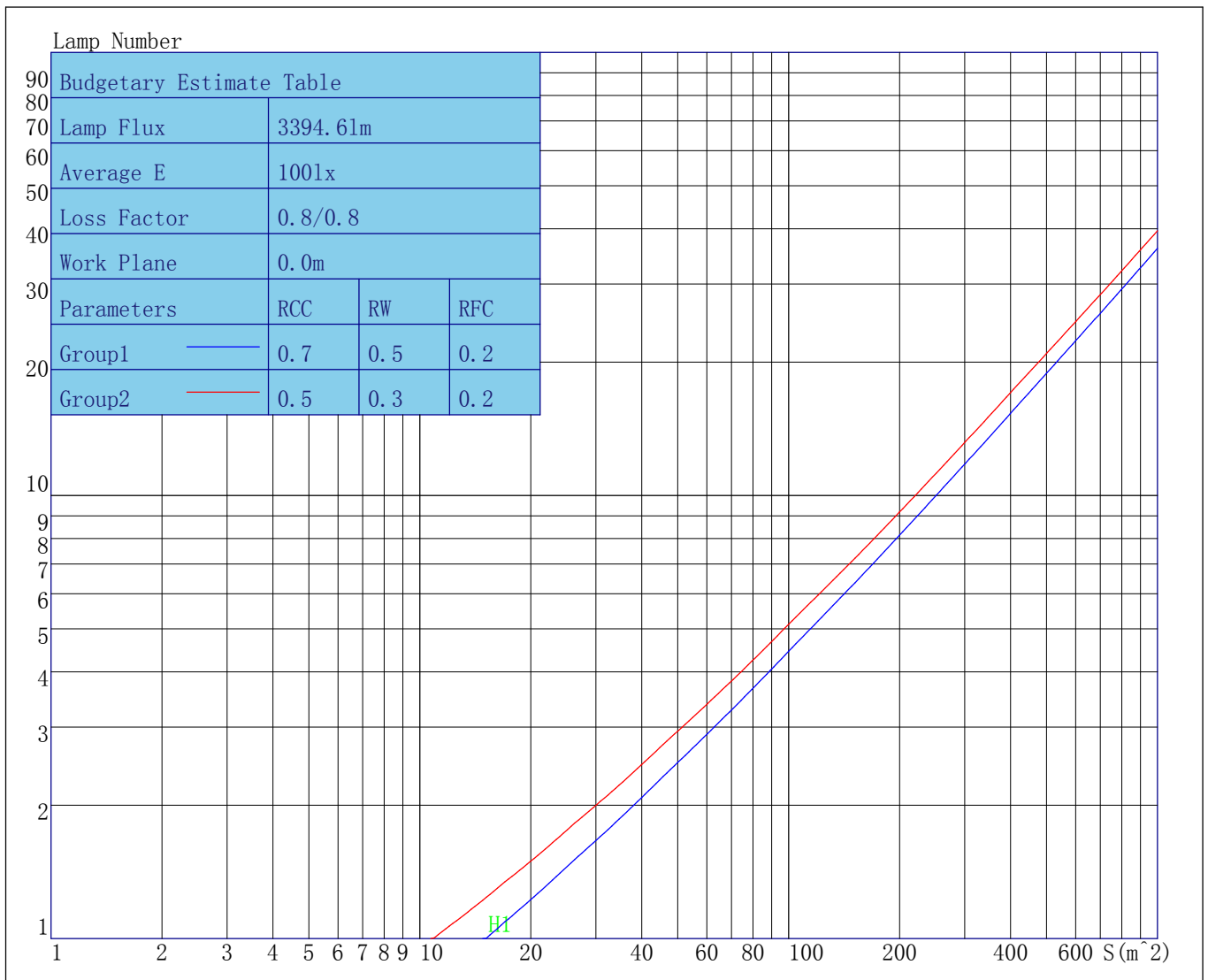
Luminance Limiting Curve



Luminous Size: Length(m)=1.200 Width(m)=0.080 Height(m)=0.065 Area(m<sup>2</sup>)=0.174000  
 Luminous Type: Without Luminous Side  
 Luminous Curves: C0-C180 Color: ——— C90-C270 Color: ———

**Indoor Budgetary Estimate Table**

Lum. Name: B40W-CC-MS-E 3K	Lum. Catalog: LED BATTEN	Test ID:
Lamp Name: 3000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine: GON-2000	Test Date: 2018/11/01



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

**Indoor Coefficient of Utilization Table**

Lum. Name: B40W-CC-MS-E 3K	Lum. Catalog: LED BATTEN	Test ID:
Lamp Name: 3000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine: GON-2000	Test Date: 2018/11/01

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	0
RCR	Coefficient of Utilization (%)																	
0	116	116	116	116	112	112	112	112	105	105	105	98	98	98	92	92	92	89
1	105	100	95	91	101	96	92	88	90	87	83	84	81	79	79	77	75	72
2	95	86	79	73	91	83	77	71	78	73	68	73	69	65	68	65	62	59
3	86	75	67	60	83	73	65	59	68	62	56	64	59	54	60	56	52	49
4	79	66	57	50	76	64	56	49	60	53	48	57	51	46	53	48	44	41
5	72	59	50	43	69	57	49	42	54	47	41	51	44	39	48	42	38	36
6	67	53	44	37	64	51	43	37	49	41	36	46	39	34	43	38	33	31
7	62	48	39	33	59	47	38	32	44	37	31	42	35	30	39	34	29	27
8	57	44	35	29	55	42	34	29	40	33	28	38	32	27	36	30	26	24
9	53	40	32	26	51	39	31	26	37	30	25	35	29	24	33	28	24	22
10	50	37	29	24	48	36	28	23	34	27	23	32	26	22	31	25	21	20

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**Unified Glare Rating Table**

Lum. Name: B40W-CC-MS-E 3K	Lum. Catalog: LED BATTEN	Test ID:
Lamp Name: 3000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine: GON-2000	Test Date: 2018/11/01

**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	17.5	20.9	18.7	22.1	23.3	16.0	19.3	17.2	20.6	21.8
Y=3H	23.3	26.7	24.6	27.9	29.2	20.3	23.6	21.5	24.9	26.1
Y=4H	27.0	29.9	28.3	31.2	32.5	22.7	25.7	24.0	26.9	28.2
Y=6H	30.2	33.1	31.5	34.4	35.6	24.0	26.9	25.3	28.2	29.4
Y=8H	32.0	34.8	33.3	36.1	37.4	24.4	27.2	25.7	28.5	29.8
Y=12H	34.0	36.8	35.2	38.0	39.3	24.6	27.4	25.9	28.7	30.0
X=4H Y=2H	18.8	21.8	20.1	23.0	24.3	18.2	21.2	19.5	22.4	23.7
Y=3H	24.9	27.8	26.1	29.1	30.3	22.8	25.7	24.1	27.0	28.3
Y=4H	27.0	28.9	28.6	30.4	31.9	23.8	25.6	25.3	27.2	28.7
Y=6H	30.9	32.6	32.5	34.1	35.6	25.7	27.4	27.3	28.9	30.5
Y=8H	33.1	34.7	34.6	36.2	37.7	26.4	28.1	28.0	29.6	31.1
Y=12H	34.6	36.0	36.3	37.6	39.2	26.0	27.3	27.7	29.0	30.6
X=8H Y=4H	27.4	29.0	29.0	30.5	32.1	24.8	26.4	26.4	27.9	29.5
Y=6H	30.7	31.9	32.4	33.5	35.1	26.4	27.5	28.1	29.2	30.8
Y=8H	32.7	33.6	34.5	35.3	37.0	27.0	27.9	28.8	29.7	31.4
Y=12H	35.6	36.5	37.4	38.2	39.9	27.9	28.8	29.7	30.5	32.2
X=12H Y=4H	26.5	27.8	28.2	29.5	31.1	24.2	25.5	25.8	27.1	28.8
Y=6H	30.3	31.2	32.0	33.0	34.7	26.3	27.3	28.1	29.0	30.7
Y=8H	32.8	33.6	34.6	35.4	37.1	27.6	28.5	29.4	30.2	31.9
Variations with the objerver position at spacings										
S=1.0H	2.1/-1.9					2.3/-0.3				
S=1.5H	-1.9/-20.1					-0.3/-16.9				
S=2.0H	-1.9/-20.1					-0.3/-16.9				

# IES Indoor Report

## Photometric Filename: B40W-CC-MS-E 3K.IES

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### Candela Tabulation

V/H	C0.0	C90.0	C180.0	C270.0
Y 0.0	936.43	936.43	936.43	936.43
Y 5.0	939.96	926.02	939.69	927.23
Y 10.0	937.18	913.18	936.04	915.97
Y 15.0	927.51	892.10	925.61	896.19
Y 20.0	910.68	863.73	907.81	869.02
Y 25.0	886.50	827.56	882.85	834.12
Y 30.0	855.67	784.62	850.87	792.02
Y 35.0	818.18	734.82	812.52	743.26
Y 40.0	774.31	678.56	767.81	688.05
Y 45.0	724.44	616.14	716.73	626.45
Y 50.0	668.61	548.27	660.82	559.67
Y 55.0	607.69	475.52	599.46	487.47
Y 60.0	541.88	398.20	533.87	410.81
Y 65.0	472.75	317.38	464.36	330.66
Y 70.0	401.33	234.81	392.71	248.09
Y 75.0	330.51	153.14	321.92	165.84
Y 80.0	266.78	78.26	259.69	89.28
Y 85.0	217.24	22.07	214.25	29.41
Y 90.0	185.41	4.47	183.35	7.39
Y 95.0	168.29	5.14	162.59	7.19
Y 100.0	158.60	5.81	150.58	7.31
Y 105.0	148.94	6.58	140.26	7.72
Y 110.0	136.01	7.22	127.95	8.20
Y 115.0	125.83	7.90	119.03	8.65
Y 120.0	116.21	8.52	110.31	9.20
Y 125.0	106.58	9.13	101.71	9.70
Y 130.0	95.86	9.74	92.99	10.24
Y 135.0	82.30	10.34	84.09	10.82
Y 140.0	76.00	11.01	75.10	11.40
Y 145.0	69.33	11.67	66.02	12.06
Y 150.0	59.45	12.41	55.84	12.71
Y 155.0	49.87	13.08	47.27	13.34
Y 160.0	41.09	13.63	38.52	13.90
Y 165.0	33.04	14.24	30.73	14.37
Y 170.0	25.61	14.78	23.86	14.78
Y 175.0	19.07	15.01	17.92	15.00
Y 180.0	15.61	15.61	15.61	15.61

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