

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP101SCT095
Lamp Type:
Luminous Width: 86 mm
Luminous Length: 86 mm
Luminous Height: 95 mm

Voltage(V): 219.80 V
Current(A): 0.1370 A
Power(W): 28.62 W
Power Factor: 0.9490
Lamp Luminous Flux: 2976.86

Photometric Results

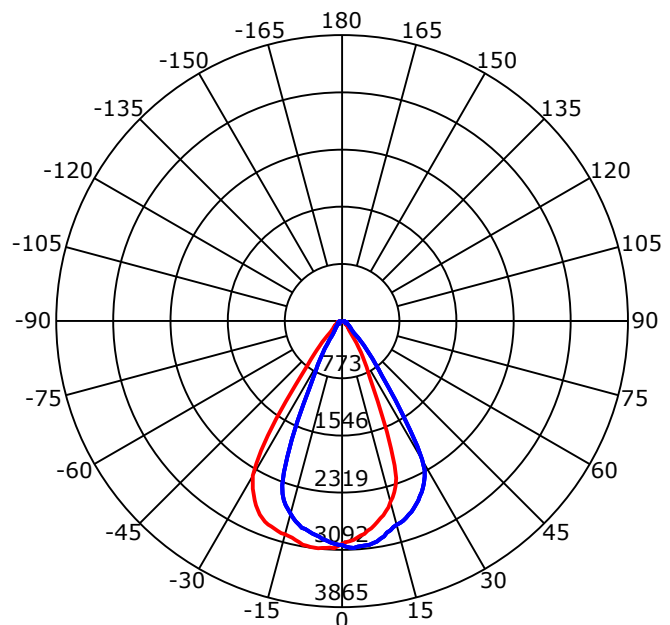
CIE Class: Direct
Luminaire Luminous Flux: 2976.864 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 104.01 lm/W
Beam Angle(50%) C0-180,C90-270: 56.5,56.7
Field Angle(10%) C0-180,C90-270: 78.1,78.0
S/MH C0-180,C90-270: 0.890,0.933

Max. Intensity: 3091.80 cd
Max.Intensity Angle: C=135 Gamma=6
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 3011.58 cd
Effective Luminous Flux: 2633.62 lm
ERP(ϕ use)(120deg): 2856.98 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



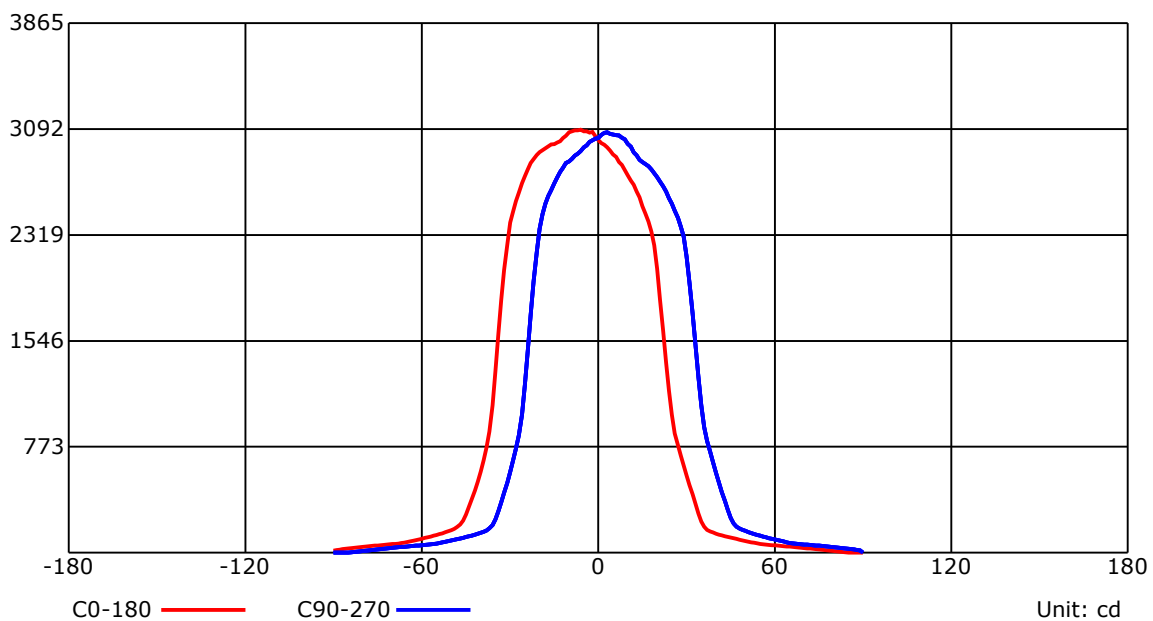
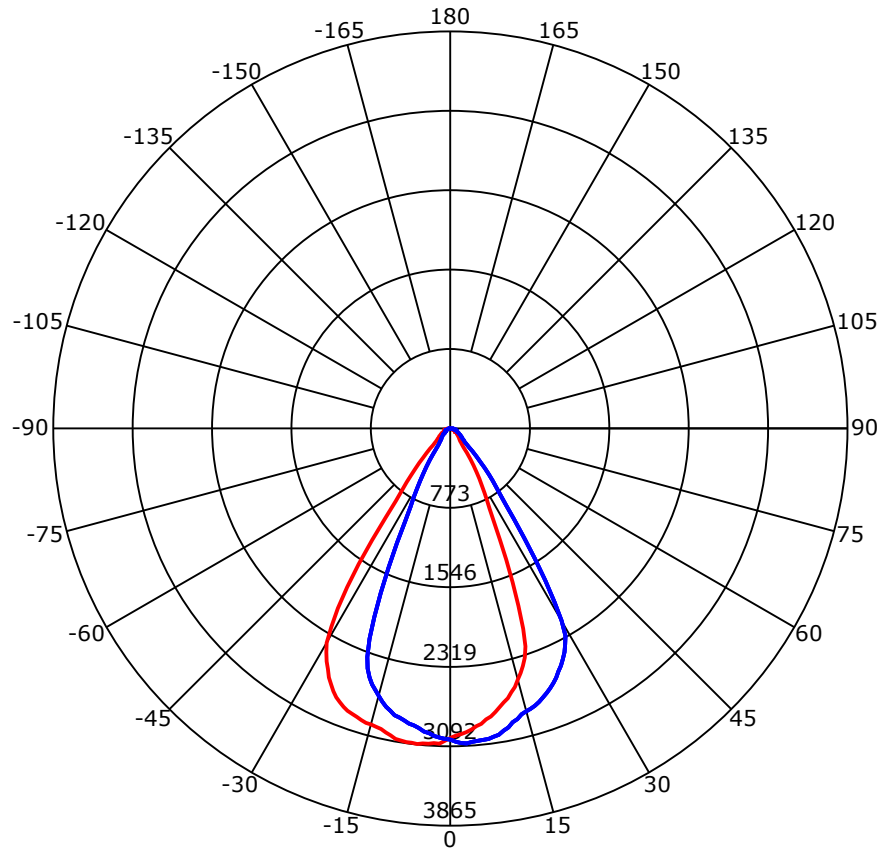
Beam Angle(50%) C0-180,C90-270: 56.5 deg,56.7 deg

C0-180 — C90-270 —

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/4/30 16:49:06

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

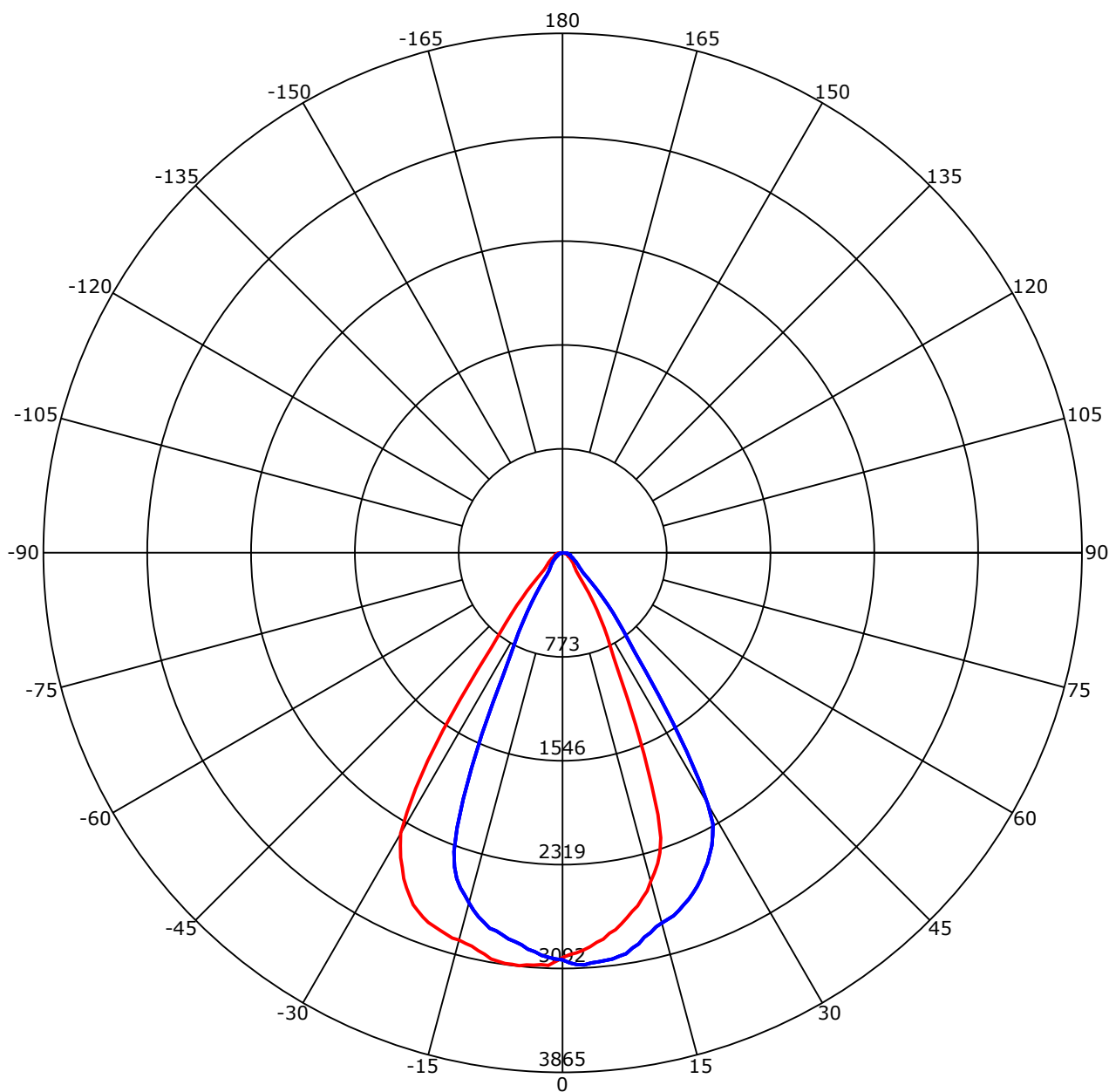
Luminous Intensity Distribution Curve



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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

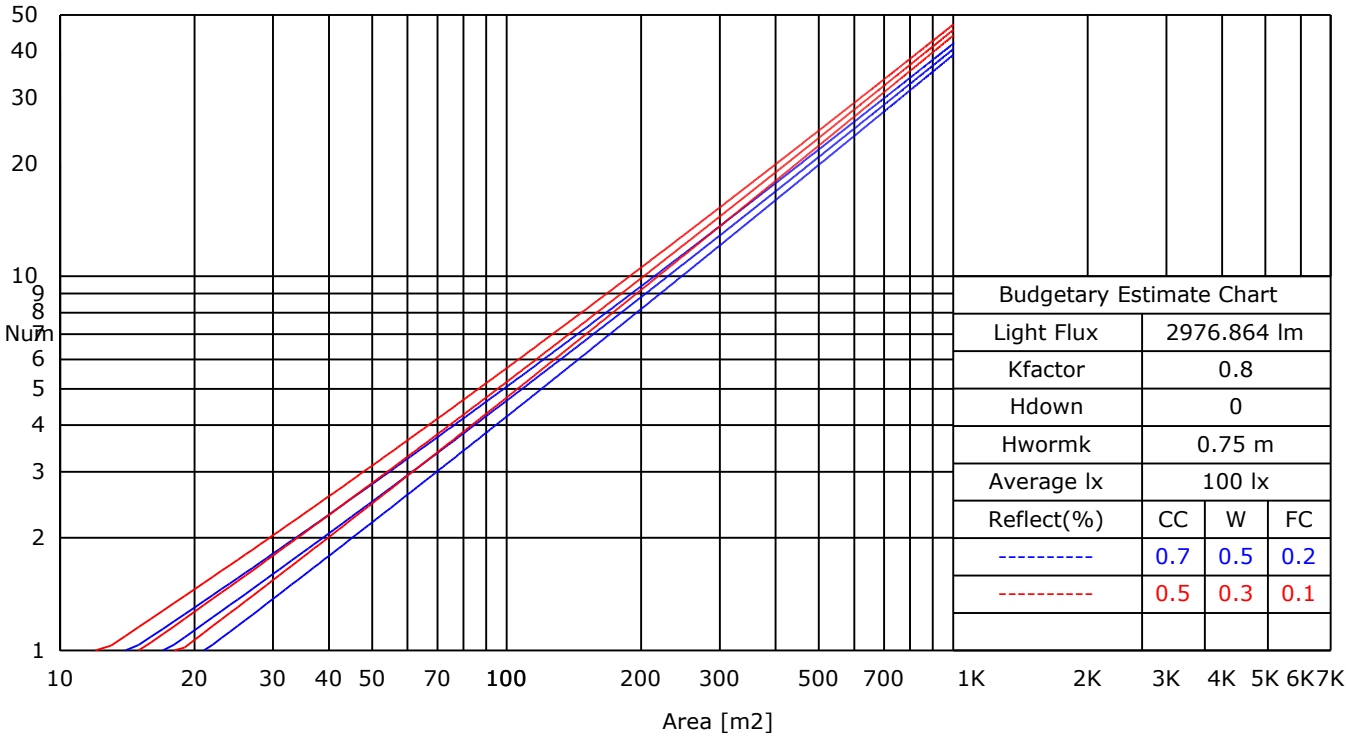
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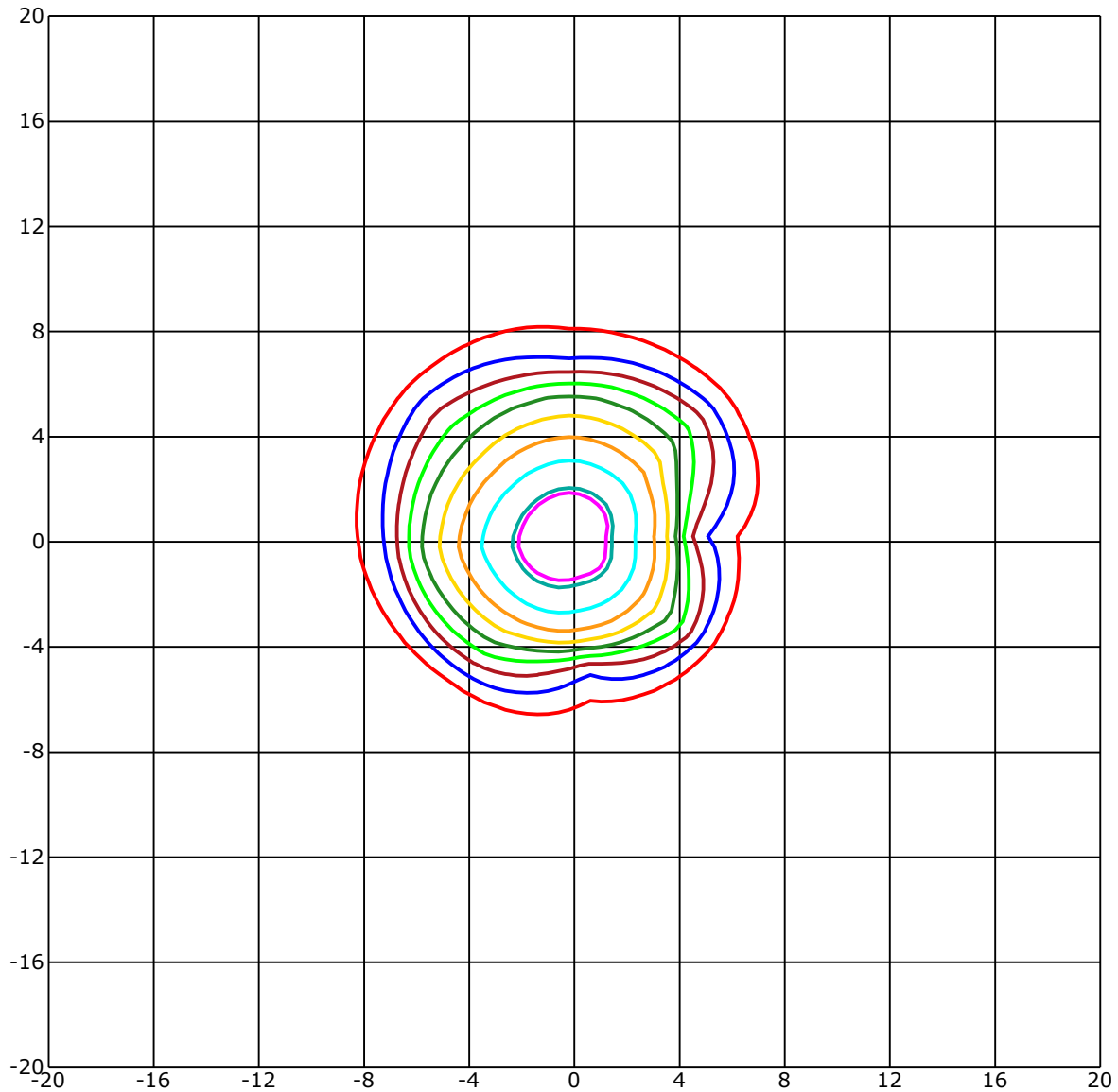
UTILIZATION FACTORS TABLE

RHOCC	80			70			50			30			10			0
RHOW	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	COEFFICIENTS OF UTILIZATION FOR RHOFC=20															
0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.07	1.05	1.04	1.05	1.03	1.02	1.01	0.99	0.98	0.96	0.94	0.92	0.90	0.88	0.86	0.81
2	1.01	0.99	0.98	1.00	0.97	0.96	0.96	0.94	0.92	0.92	0.89	0.87	0.87	0.84	0.81	0.76
3	0.96	0.94	0.93	0.95	0.92	0.91	0.92	0.89	0.87	0.88	0.85	0.82	0.83	0.80	0.77	0.73
4	0.91	0.90	0.89	0.90	0.88	0.87	0.88	0.85	0.83	0.84	0.81	0.78	0.80	0.77	0.74	0.69
5	0.87	0.86	0.85	0.86	0.84	0.83	0.84	0.81	0.79	0.81	0.78	0.75	0.78	0.74	0.70	0.66
6	0.84	0.82	0.81	0.83	0.81	0.79	0.81	0.78	0.76	0.78	0.74	0.72	0.75	0.71	0.67	0.64
7	0.80	0.79	0.78	0.80	0.78	0.76	0.78	0.75	0.73	0.75	0.72	0.69	0.72	0.68	0.65	0.61
8	0.78	0.76	0.75	0.77	0.75	0.73	0.75	0.72	0.70	0.73	0.69	0.66	0.70	0.66	0.63	0.59
9	0.75	0.73	0.73	0.74	0.72	0.71	0.72	0.69	0.67	0.70	0.67	0.64	0.68	0.64	0.60	0.57
10	0.72	0.71	0.70	0.72	0.70	0.69	0.70	0.67	0.65	0.68	0.64	0.62	0.66	0.62	0.58	0.55

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



ISOLX DIAGRAM



Unit of illumination:lx Height of plane:10.0(m)/32.81(ft)

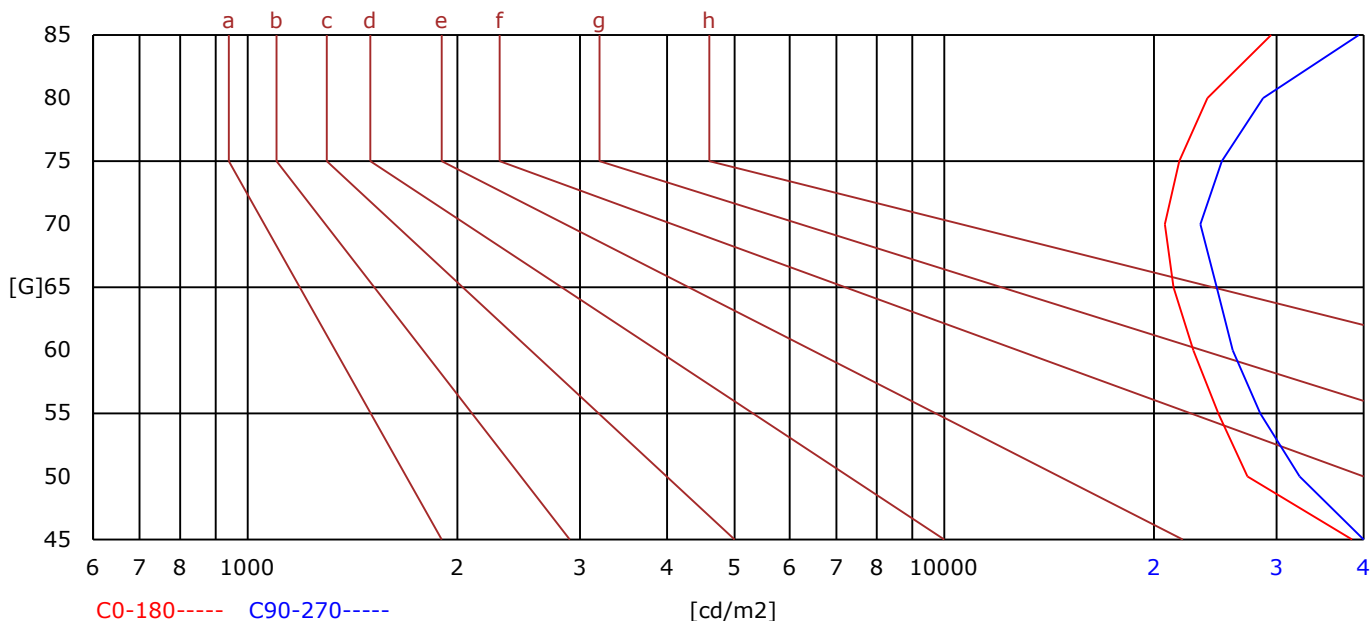
28.253(92%Emax)	15.355(50%Emax)
27.639(90%Emax)	12.284(40%Emax)
24.568(80%Emax)	9.213(30%Emax)
21.497(70%Emax)	6.142(20%Emax)
18.426(60%Emax)	3.071(10%Emax)

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Humidity: 60
Test Distance: 6.7 m
Remarks:

BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	38489	27232	24740	22785	21341	20727	21739	23873	29458
C90	49149	32359	28402	25929	24616	23318	25022	28696	39346
Dazzle	Quality	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					2000	1000	500	<=300
---	---	a	b	c	d	e	f	g	h



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Remarks:

Height	Ecenter,Emax	Beam angle:56.5 deg (C0_180)	Diameter
4.92ft 1.50m	124.35 , 127.66fc 1338.48 , 1374.13lx		5.29ft 1.61m
7.38ft 2.25m	55.27 , 56.74fc 594.88 , 610.73lx		7.93ft 2.42m
11.48ft 3.50m	22.84 , 23.45fc 245.84 , 252.39lx		12.34ft 3.76m
13.12ft 4.00m	17.49 , 17.95fc 188.22 , 193.24lx		14.10ft 4.30m
16.40ft 5.00m	11.19 , 11.49fc 120.46 , 123.67lx		17.63ft 5.37m
21.33ft 6.50m	6.62 , 6.80fc 71.28 , 73.18lx		22.91ft 6.98m
22.97ft 7.00m	5.71 , 5.86fc 61.46 , 63.10lx		24.68ft 7.52m
26.25ft 8.00m	4.37 , 4.49fc 47.06 , 48.31lx		28.20ft 8.60m
29.53ft 9.00m	3.45 , 3.55fc 37.18 , 38.17lx		31.73ft 9.67m
32.81ft 10.00m	2.80 , 2.87fc 30.12 , 30.92lx		35.25ft 10.75m

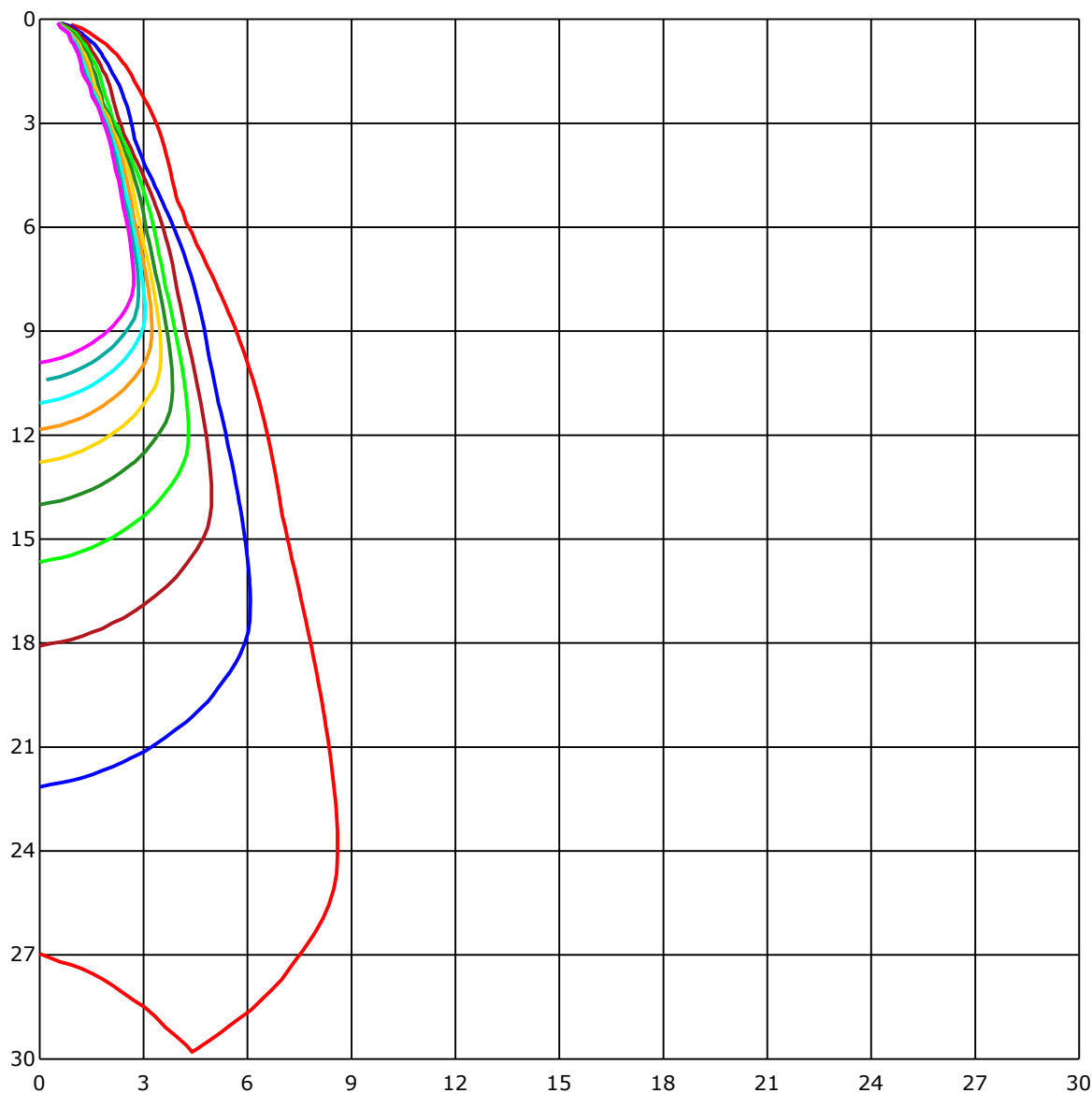
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Remarks:

UGR(Unified Glare Rating) TABLE

RHOCC	70	70	50	50	30	70	70	50	50	30
RHOW	50	30	50	30	30	50	30	50	30	30
RHOF	20	20	20	20	20	20	20	20	20	20
Room Size X Y	Viewed Endwise					Viewed Crosswise				
2H 2H	17.54	17.59	17.74	17.78	18.02	17.68	17.73	17.88	17.92	18.16
3H	17.54	17.59	17.74	17.78	18.03	17.67	17.72	17.87	17.91	18.16
4H	17.53	17.58	17.74	17.78	18.02	17.65	17.71	17.86	17.90	18.15
6H	17.51	17.56	17.73	17.76	18.02	17.64	17.69	17.85	17.89	18.14
8H	17.50	17.55	17.72	17.76	18.01	17.63	17.68	17.85	17.88	18.13
12H	17.49	17.54	17.71	17.75	18.00	17.62	17.67	17.84	17.87	18.13
4H 2H	17.77	17.82	17.98	18.02	18.27	18.11	18.16	18.32	18.36	18.61
3H	17.83	17.88	18.05	18.09	18.34	18.17	18.22	18.39	18.43	18.69
4H	17.85	17.90	18.08	18.11	18.37	18.18	18.23	18.41	18.44	18.70
6H	17.85	17.90	18.09	18.12	18.38	18.17	18.22	18.41	18.44	18.70
8H	17.85	17.89	18.09	18.12	18.38	18.16	18.21	18.40	18.43	18.70
12H	17.83	17.88	18.08	18.11	18.38	18.14	18.19	18.39	18.42	18.69
8H 4H	17.81	17.86	18.03	18.07	18.32	18.38	18.44	18.60	18.64	18.89
6H	18.00	18.05	18.26	18.29	18.56	18.64	18.68	18.89	18.92	19.19
8H	18.02	18.06	18.28	18.30	18.58	18.64	18.68	18.90	18.92	19.20
12H	18.02	18.06	18.29	18.31	18.60	18.63	18.67	18.90	18.92	19.20
12H 4H	17.96	18.01	18.21	18.24	18.51	18.79	18.84	19.04	19.07	19.34
6H	18.02	18.06	18.28	18.31	18.58	18.87	18.91	19.13	19.15	19.43

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Humidity: 60
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Remarks:

SPACE ISOLX DIAGRAM



Unit of illumination:lx

30.695
27.625
24.556
21.486
18.417

15.347
12.278
9.208
6.139
3.069

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Test Distance: 6.7 m
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	3011.58	3071.02	3026.66	3050.59	3011.58	3071.02	3026.66	3050.59	3011.58	
G1	2989.18	3072.14	3050.64	3070.43	3040.49	3064.24	3022.49	3027.61	2989.18	
G2	2977.37	3055.57	3064.19	3075.82	3070.34	3042.82	3010.55	3022.89	2977.37	
G3	2959.64	3048.03	3068.55	3065.36	3066.75	3025.0	2998.11	3003.32	2959.64	
G4	2936.48	3043.63	3057.95	3071.51	3074.79	3004.76	2973.69	2990.84	2936.48	
G5	2908.24	3035.78	3052.97	3076.9	3076.13	3002.65	2959.6	2973.29	2908.24	
G6	2889.57	3021.59	3048.48	3091.8	3087.31	2993.89	2930.33	2950.53	2889.57	
G7	2852.09	2999.37	3044.44	3083.54	3082.69	2988.28	2913.14	2923.19	2852.09	
G8	2829.46	2961.62	3029.0	3065.27	3083.67	2978.32	2899.04	2903.84	2829.46	
G9	2793.28	2936.84	3018.31	3044.53	3074.61	2968.13	2874.8	2876.33	2793.28	
G10	2755.66	2910.44	2985.45	3021.91	3068.68	2951.25	2854.82	2850.16	2755.66	
G11	2715.49	2886.79	2964.13	2994.43	3042.06	2944.25	2844.19	2815.5	2715.49	
G12	2684.33	2878.26	2922.2	2969.79	3025.86	2932.13	2809.58	2789.11	2684.33	
G13	2635.27	2838.57	2900.84	2932.44	3002.78	2916.82	2779.36	2747.04	2635.27	
G14	2593.88	2820.62	2867.98	2909.14	2993.04	2889.17	2739.86	2710.64	2593.88	
G15	2529.91	2789.06	2850.92	2886.52	2982.09	2867.71	2695.91	2660.94	2529.91	
G16	2476.81	2765.4	2836.82	2871.7	2980.11	2825.15	2646.13	2622.47	2476.81	
G17	2416.56	2731.65	2821.88	2843.42	2965.48	2786.05	2604.56	2577.72	2416.56	
G18	2344.74	2690.17	2797.46	2831.26	2950.67	2731.2	2547.46	2527.17	2344.74	
G19	2242.7	2659.55	2768.46	2800.28	2937.38	2687.52	2470.16	2472.95	2242.7	
G20	2072.98	2626.11	2741.12	2774.79	2924.63	2640.03	2364.72	2420.69	2072.98	
G21	1847.63	2595.05	2708.39	2736.18	2903.04	2579.29	2192.7	2354.03	1847.63	
G22	1614.16	2552.22	2674.05	2702.56	2873.27	2516.35	1976.55	2281.94	1614.16	
G23	1387.95	2518.78	2635.22	2657.98	2843.78	2444.53	1737.6	2202.35	1387.95	
G24	1182.0	2468.19	2588.4	2610.44	2798.08	2354.8	1475.62	2119.84	1182.0	
G25	1007.11	2420.33	2546.74	2563.85	2748.03	2261.92	1227.83	2027.82	1007.11	
G26	868.98	2363.86	2496.47	2514.2	2696.14	2161.81	1008.45	1921.56	868.98	
G27	785.71	2312.51	2444.13	2468.86	2628.04	2061.12	856.23	1783.44	785.71	
G28	709.04	2243.65	2379.62	2417.06	2566.77	1937.23	759.0	1636.69	709.04	
G29	635.33	2176.76	2307.21	2354.97	2489.64	1794.16	673.22	1451.25	635.33	
G30	564.04	2100.94	2162.67	2278.8	2410.01	1631.75	589.54	1242.69	564.04	
G31	493.83	2023.01	1971.57	2204.59	2248.94	1463.01	511.12	1002.57	493.83	
G32	425.65	1931.66	1742.68	2123.39	2064.81	1288.79	436.78	767.66	425.65	
G33	355.84	1821.86	1513.56	2029.52	1843.09	1094.01	367.11	573.2	355.84	
G34	285.68	1664.97	1283.85	1940.1	1593.69	860.41	302.29	439.74	285.68	
G35	226.16	1461.35	1076.15	1833.08	1326.81	633.98	243.3	361.99	226.16	
G36	189.17	1234.48	917.73	1709.55	1074.89	457.7	200.66	306.91	189.17	

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Humidity: 60
Test Distance: 6.7 m
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	167.57	1001.86	817.22	1554.0	882.94	356.25	177.05	261.98	167.57	
G38	155.77	791.1	733.41	1373.23	767.13	297.93	161.78	229.07	155.77	
G39	146.75	626.31	656.47	1150.8	673.62	253.27	152.31	203.53	146.75	
G40	139.52	470.31	582.94	905.93	591.96	221.49	144.41	183.65	139.52	
G41	132.56	365.36	511.48	687.63	519.15	197.61	137.54	165.51	132.56	
G42	126.32	311.9	442.17	501.24	453.03	180.28	131.12	153.88	126.32	
G43	120.26	268.17	377.26	367.38	390.32	165.96	125.06	144.9	120.26	
G44	115.1	231.23	312.08	297.04	334.43	155.27	119.54	138.4	115.1	
G45	109.62	201.29	253.45	257.04	278.36	147.19	114.16	132.69	109.62	
G46	104.73	178.48	213.59	224.49	234.77	140.28	108.81	127.31	104.73	
G47	99.97	161.69	190.47	200.07	205.64	134.85	103.74	121.61	99.97	
G48	94.94	147.15	176.73	181.31	186.88	129.46	98.44	116.49	94.94	
G49	89.82	137.18	167.22	166.23	174.26	124.21	93.78	111.19	89.82	
G50	85.43	129.46	158.51	153.84	164.93	118.6	89.11	106.52	85.43	
G51	80.76	124.39	150.83	143.78	156.94	113.62	84.39	102.04	80.76	
G52	76.27	119.0	143.51	136.82	149.3	108.54	80.62	97.91	76.27	
G53	71.91	114.42	136.91	130.41	141.94	103.97	75.77	93.37	71.91	
G54	67.34	109.58	130.23	125.24	135.97	99.66	71.06	90.09	67.34	
G55	63.52	104.95	124.17	120.48	129.6	95.48	66.12	86.28	63.52	
G56	61.1	100.55	117.97	115.68	123.63	91.49	62.89	82.24	61.1	
G57	58.63	96.06	112.4	110.16	117.79	88.25	60.69	78.87	58.63	
G58	56.92	91.8	106.57	105.18	112.14	84.17	57.95	74.56	56.92	
G59	55.08	88.25	101.59	101.18	107.06	80.4	55.89	70.7	55.08	
G60	53.82	84.26	96.11	95.89	102.12	76.49	54.32	67.07	53.82	
G61	52.03	80.44	91.44	91.84	96.87	72.54	52.88	64.01	52.03	
G62	50.46	76.99	86.41	87.85	92.34	68.46	51.17	60.96	50.46	
G63	48.35	73.75	81.83	83.94	87.18	65.31	49.42	58.27	48.35	
G64	46.15	70.25	76.22	80.62	82.55	62.8	47.58	56.11	46.15	
G65	44.53	66.71	71.82	76.94	76.99	59.79	45.52	53.78	44.53	
G66	42.33	62.67	69.0	73.31	72.5	57.23	43.54	51.89	42.33	
G67	40.4	59.57	66.44	69.58	69.62	55.3	41.79	49.51	40.4	
G68	38.43	56.79	63.79	65.94	67.02	52.84	39.68	46.91	38.43	
G69	36.36	54.63	62.04	61.99	64.24	50.73	37.8	44.62	36.36	
G70	34.25	52.43	60.15	58.99	62.58	48.44	35.55	42.2	34.25	
G71	32.1	50.14	58.58	56.38	60.6	45.88	33.49	39.82	32.1	
G72	30.12	48.12	56.74	54.18	58.9	43.45	31.33	37.44	30.12	
G73	27.79	45.92	54.99	51.94	56.92	41.12	29.31	35.24	27.79	

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