

Report No.:

Test Time: 2024/7/3 10:52:17

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP101SCT055-15°-8.6W
Lamp Type:
Luminous Width: 50 mm
Luminous Length: 50 mm
Luminous Height: 50 mm

Voltage(V): 220.00 V
Current(A): 0.0420 A
Power(W): 8.64 W
Power Factor: 0.9280
Lamp Luminous Flux: 894.67

Photometric Results

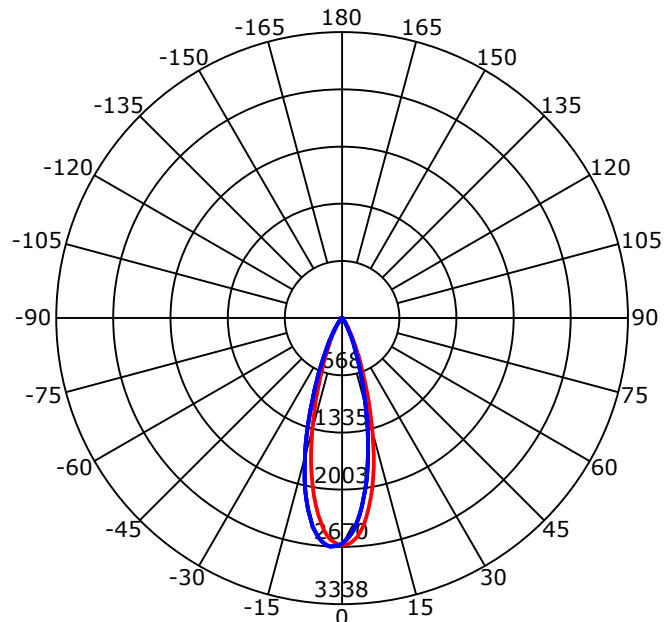
CIE Class: Direct
Luminaire Luminous Flux: 894.6699 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 103.55 lm/W
Beam Angle(50%) C0-180,C90-270: 30.5,30.5
Field Angle(10%) C0-180,C90-270: 55.5,55.4
S/MH C0-180,C90-270: 0.536,0.536

Max. Intensity: 2670.33 cd
Max.Intensity Angle: C=270 Gamma=3
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 2647.61 cd
Effective Luminous Flux: 764.16 lm
ERP(ϕ use)(120deg): 887.26 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 30.5 deg,30.5 deg

C0-180 — C90-270 —

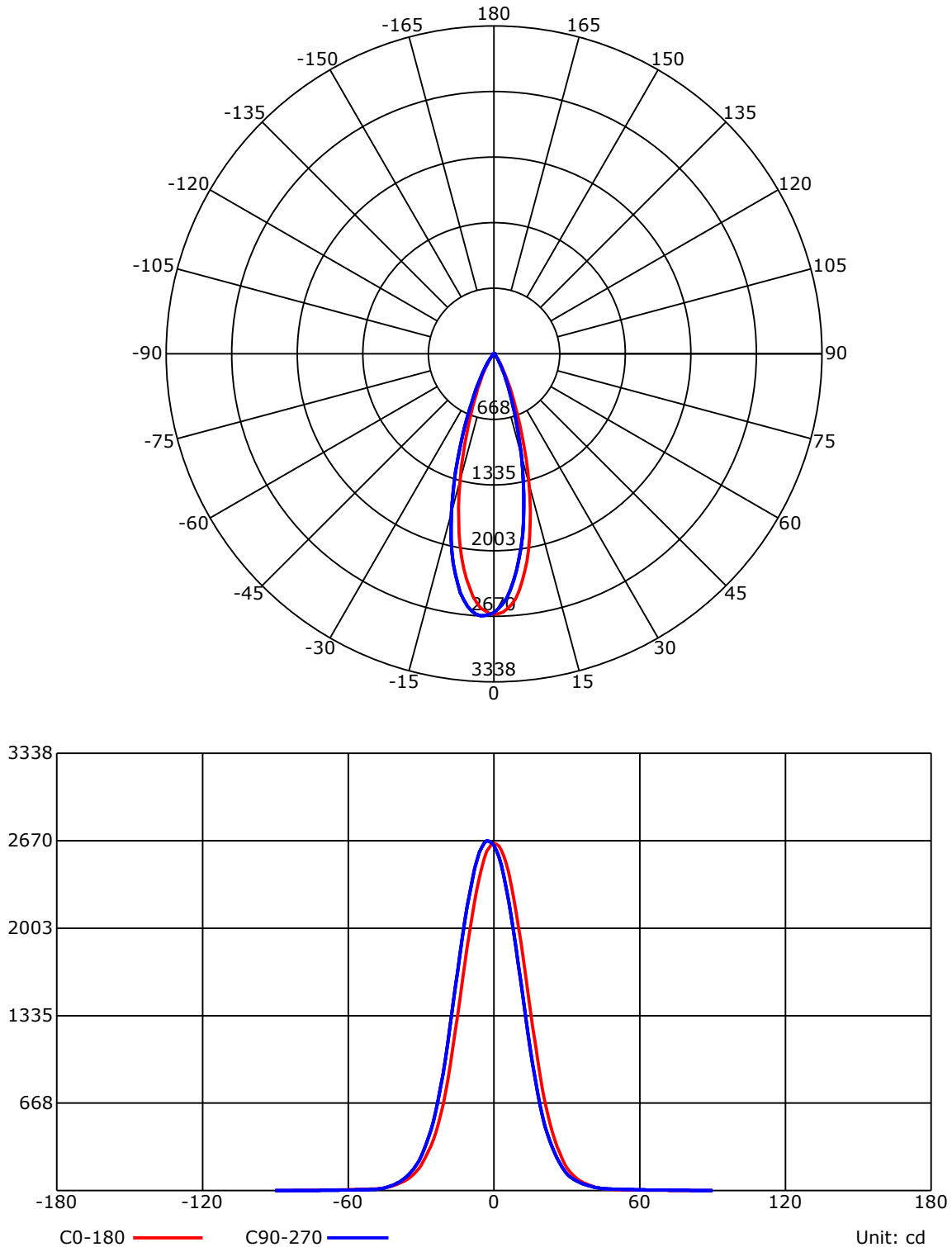
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/7/3 10:52:17

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

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Luminous Intensity Distribution Curve



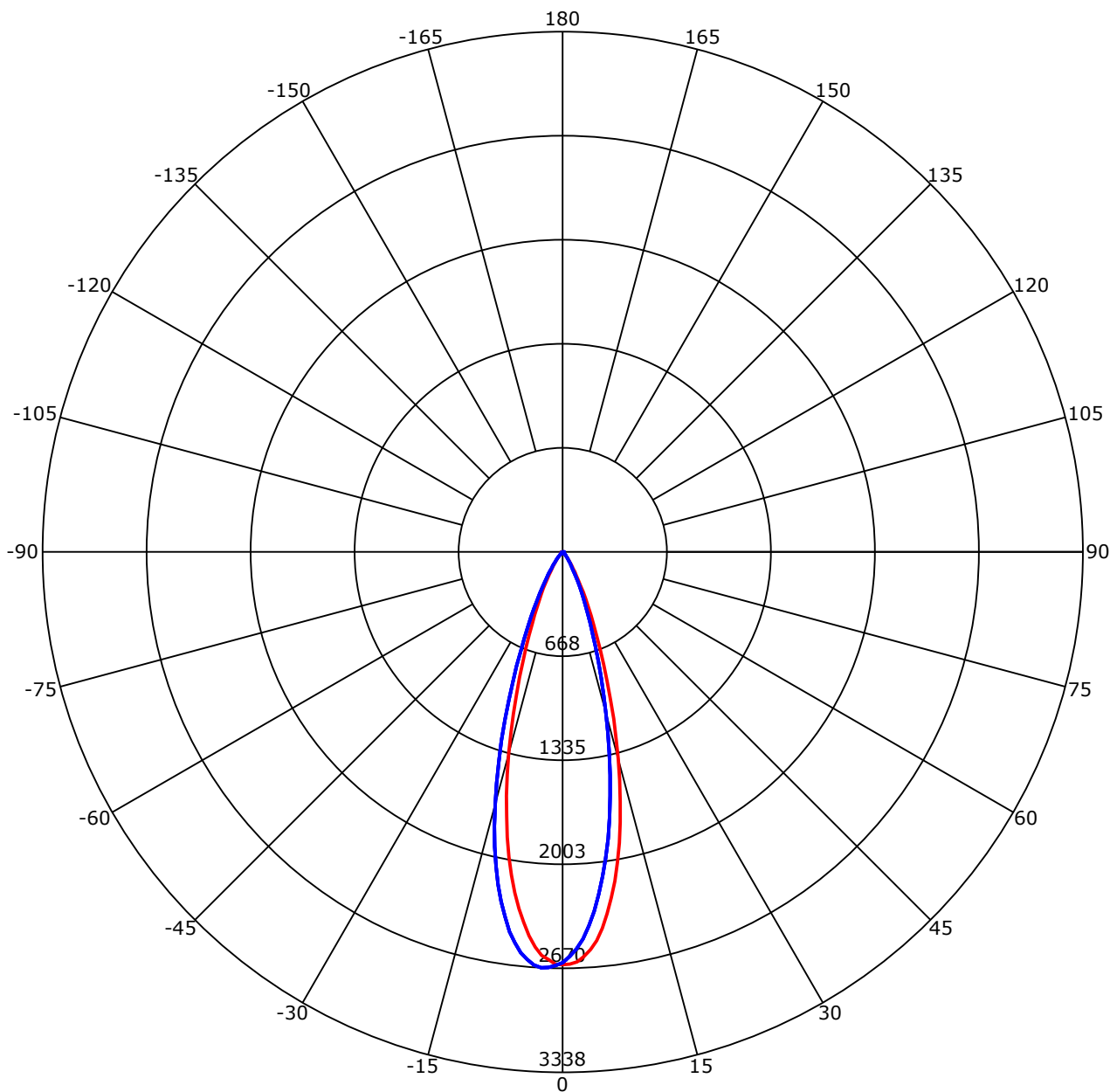
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

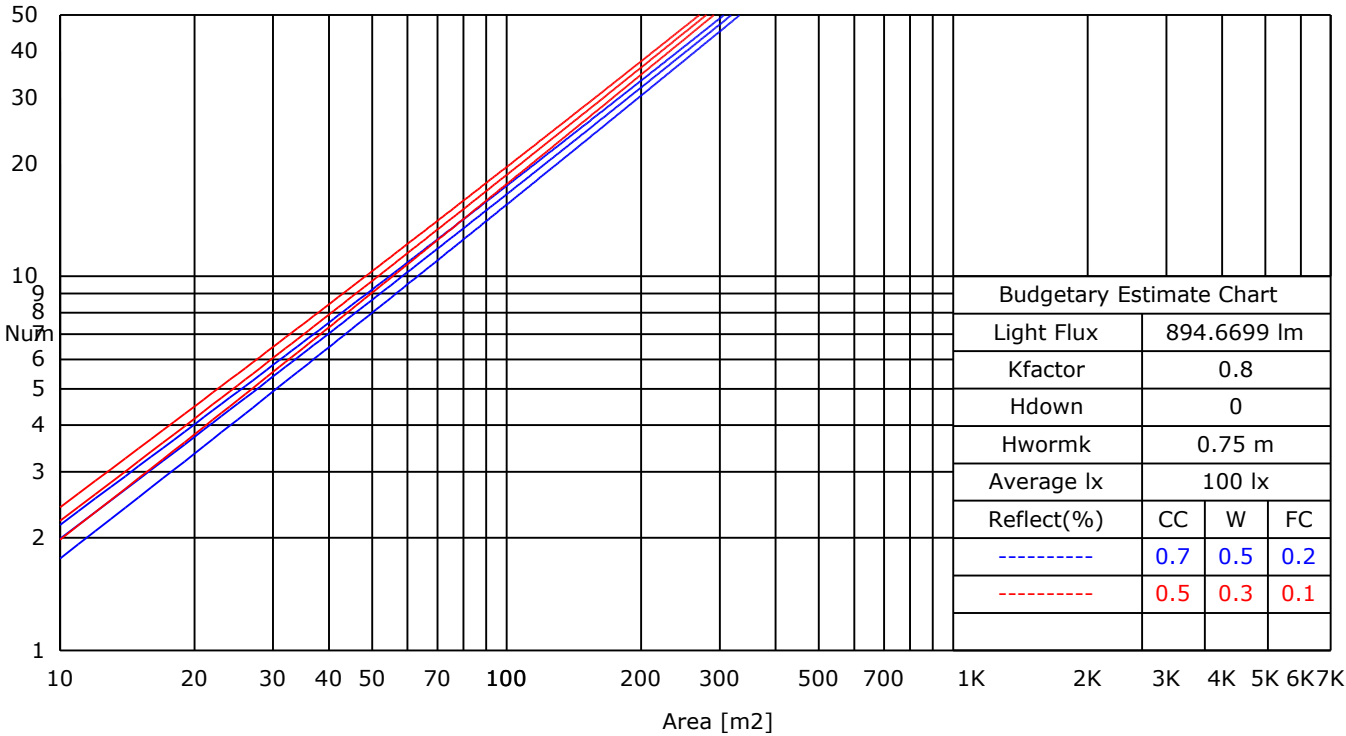
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UTILIZATION FACTORS TABLE

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	COEFFCIENTS 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	0.94	0.91	0.89	0.93	0.90	0.88	0.91	0.87	0.84	0.87	0.83	0.80	0.81	0.78	0.74	0.69
2	0.91	0.88	0.86	0.90	0.87	0.85	0.87	0.84	0.81	0.84	0.80	0.77	0.79	0.75	0.72	0.67
3	0.88	0.85	0.84	0.87	0.84	0.82	0.85	0.81	0.79	0.82	0.78	0.75	0.78	0.73	0.70	0.66
4	0.85	0.83	0.82	0.84	0.82	0.80	0.82	0.79	0.76	0.80	0.76	0.72	0.76	0.72	0.68	0.64
5	0.83	0.81	0.80	0.82	0.80	0.78	0.80	0.77	0.74	0.78	0.74	0.71	0.74	0.70	0.66	0.63
6	0.81	0.79	0.78	0.80	0.78	0.76	0.78	0.75	0.73	0.76	0.72	0.69	0.73	0.68	0.65	0.61
7	0.79	0.77	0.76	0.78	0.76	0.75	0.76	0.73	0.71	0.74	0.70	0.67	0.71	0.67	0.64	0.60
8	0.77	0.76	0.75	0.77	0.75	0.73	0.75	0.72	0.70	0.72	0.69	0.66	0.70	0.66	0.62	0.59
9	0.76	0.74	0.74	0.75	0.73	0.72	0.73	0.70	0.68	0.71	0.67	0.65	0.69	0.64	0.61	0.58
10	0.74	0.73	0.72	0.74	0.72	0.71	0.72	0.69	0.67	0.70	0.66	0.64	0.67	0.63	0.60	0.57

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



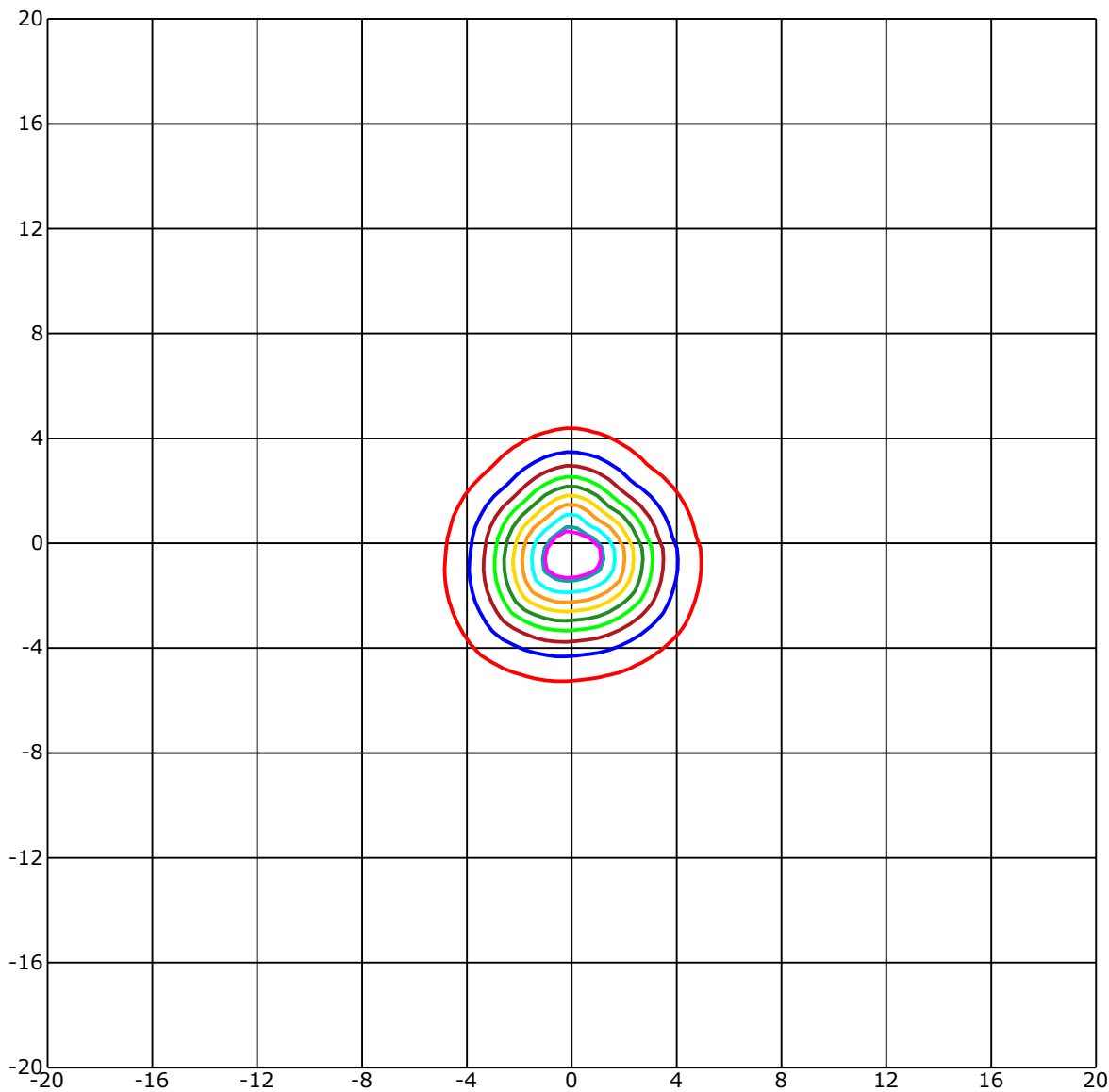
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G Range: 0 - 90 Deg
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ISOLX DIAGRAM



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

- | | |
|-----------------|-----------------|
| 24.48(92%Emax) | 13.304(50%Emax) |
| 23.948(90%Emax) | 10.644(40%Emax) |
| 21.287(80%Emax) | 7.983(30%Emax) |
| 18.626(70%Emax) | 5.322(20%Emax) |
| 15.965(60%Emax) | 2.661(10%Emax) |

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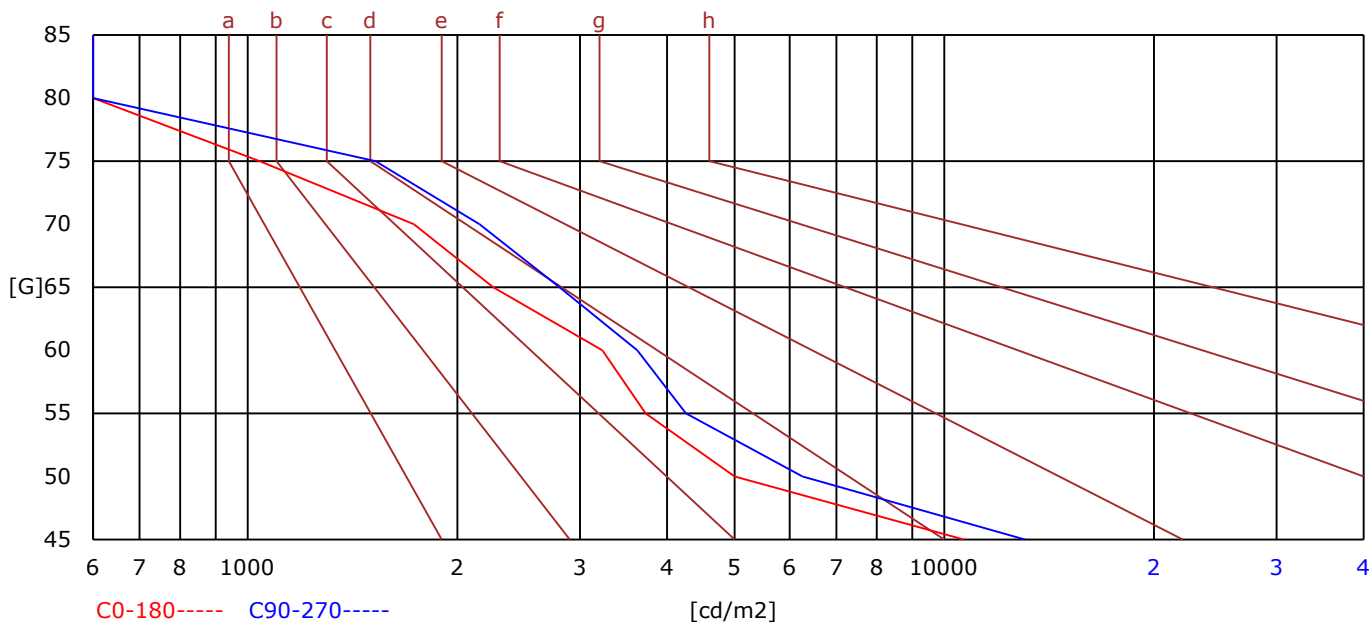
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	10665	5000	3725	3232	2252	1732	1041	0	0
C90	13052	6257	4258	3627	2804	2152	1526	207	0
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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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	7.77	7.82	7.97	8.01	8.25	7.98	8.03	8.18	8.22	8.46
	3H	7.77	7.83	7.98	8.02	8.26	7.97	8.02	8.17	8.21	8.46
	4H	7.76	7.82	7.97	8.02	8.26	7.95	8.01	8.17	8.21	8.46
	6H	7.75	7.81	7.97	8.01	8.26	7.94	8.00	8.16	8.20	8.45
	8H	7.74	7.80	7.96	8.00	8.25	7.93	7.99	8.15	8.19	8.44
	12H	7.73	7.79	7.95	8.00	8.25	7.92	7.98	8.15	8.19	8.44
4H	2H	7.95	8.01	8.16	8.20	8.45	8.49	8.55	8.71	8.75	9.00
	3H	7.97	8.02	8.19	8.23	8.48	8.50	8.56	8.72	8.76	9.02
	4H	7.96	8.02	8.19	8.23	8.49	8.49	8.54	8.71	8.75	9.01
	6H	7.94	8.00	8.18	8.22	8.48	8.46	8.52	8.70	8.74	9.00
	8H	7.93	7.99	8.17	8.21	8.48	8.45	8.51	8.70	8.73	9.00
	12H	7.92	7.97	8.17	8.20	8.47	8.44	8.49	8.69	8.73	9.00
8H	4H	7.94	8.00	8.16	8.20	8.46	8.64	8.70	8.86	8.90	9.15
	6H	7.92	7.97	8.18	8.21	8.48	8.62	8.68	8.88	8.92	9.19
	8H	7.91	7.96	8.17	8.20	8.48	8.61	8.66	8.87	8.91	9.18
	12H	7.89	7.94	8.16	8.19	8.48	8.59	8.64	8.86	8.90	9.18
12H	4H	7.93	7.98	8.18	8.22	8.49	8.66	8.72	8.91	8.95	9.22
	6H	7.90	7.96	8.17	8.20	8.48	8.64	8.69	8.90	8.93	9.21

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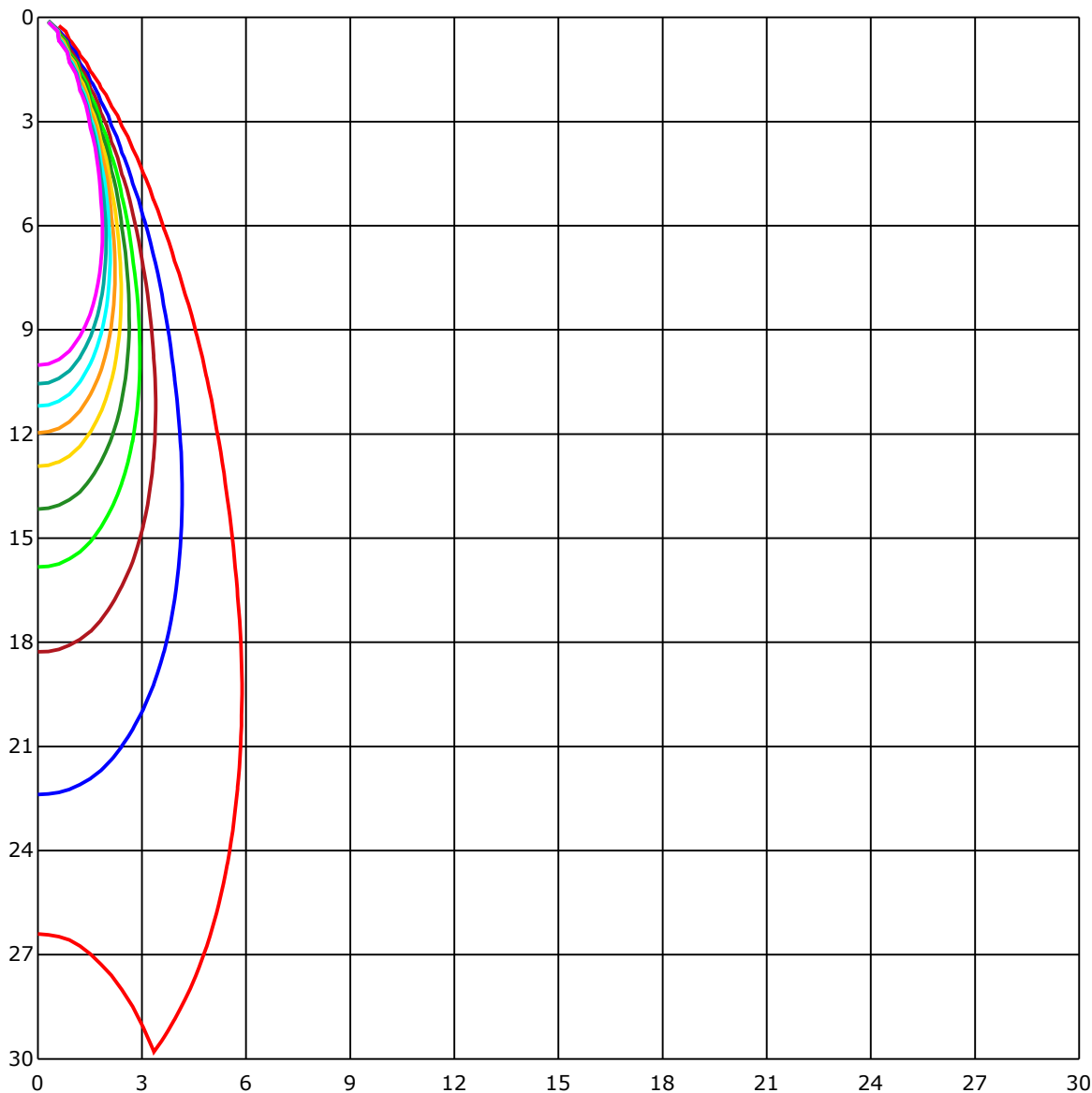
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Test Distance: 6.7 m
Remarks:

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SPACE ISOLX DIAGRAM



26.422	13.211
23.78	10.569
21.138	7.927
18.495	5.284
15.853	2.642

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	2647.61	2584.59	2634.28	2589.12	2647.61	2584.59	2634.28	2589.12	2647.61	
G1	2643.8	2525.11	2592.98	2550.16	2645.32	2614.98	2653.54	2624.14	2643.8	
G2	2630.64	2464.15	2546.52	2488.57	2616.64	2645.5	2665.75	2646.71	2630.64	
G3	2597.87	2375.76	2485.34	2415.17	2591.54	2654.97	2670.33	2651.79	2597.87	
G4	2556.17	2289.12	2403.59	2320.27	2540.01	2657.35	2655.2	2651.97	2556.17	
G5	2501.81	2181.07	2312.42	2226.63	2472.36	2655.87	2623.64	2635.31	2501.81	
G6	2426.3	2068.49	2208.9	2110.64	2389.94	2622.38	2583.2	2599.36	2426.3	
G7	2338.14	1949.21	2096.36	1995.72	2305.1	2585.13	2523.13	2557.65	2338.14	
G8	2240.82	1826.31	1981.85	1871.51	2207.47	2526.41	2459.21	2492.65	2240.82	
G9	2137.12	1696.57	1860.69	1747.43	2099.33	2455.26	2367.54	2422.22	2137.12	
G10	2023.51	1563.79	1727.19	1612.49	1986.52	2372.48	2275.56	2338.46	2023.51	
G11	1902.12	1432.26	1593.33	1484.2	1863.65	2288.81	2172.05	2229.82	1902.12	
G12	1773.07	1300.87	1461.75	1345.49	1733.79	2188.57	2061.75	2122.35	1773.07	
G13	1640.51	1166.74	1326.28	1211.4	1605.04	2079.04	1939.65	2011.25	1640.51	
G14	1505.97	1044.59	1195.65	1079.52	1469.03	1964.16	1811.09	1883.72	1505.97	
G15	1373.99	923.16	1072.83	957.46	1340.24	1832.01	1674.76	1755.74	1373.99	
G16	1241.34	812.1	956.74	843.66	1210.19	1707.66	1539.68	1623.31	1241.34	
G17	1118.34	712.45	843.98	740.01	1085.08	1575.91	1404.65	1494.88	1118.34	
G18	992.65	623.57	739.38	643.32	962.08	1442.45	1271.38	1355.09	992.65	
G19	875.62	542.41	646.06	561.75	848.69	1307.2	1135.49	1224.06	875.62	
G20	767.75	473.54	565.97	491.37	748.45	1182.63	1009.04	1092.4	767.75	
G21	673.71	412.72	490.74	428.56	656.88	1056.62	895.15	971.51	673.71	
G22	588.87	359.93	428.52	375.95	575.49	940.18	790.11	857.49	588.87	
G23	513.18	313.47	375.95	329.4	504.7	831.32	692.29	754.6	513.18	
G24	446.21	273.74	329.49	287.52	441.27	731.57	605.7	659.34	446.21	
G25	389.29	238.86	286.44	253.0	388.97	643.23	528.04	577.47	389.29	
G26	336.0	209.95	247.34	222.25	342.24	565.88	463.0	504.34	336.0	
G27	289.23	184.09	209.82	195.9	301.75	497.43	403.74	442.57	289.23	
G28	244.65	161.78	177.45	172.38	263.82	436.78	351.17	387.63	244.65	
G29	205.37	142.21	151.05	152.49	227.64	384.48	304.94	340.76	205.37	
G30	174.62	125.06	128.65	134.71	194.78	340.49	263.32	298.61	174.62	
G31	150.16	109.44	110.47	119.23	167.53	299.46	225.44	263.86	150.16	
G32	127.71	96.06	95.93	104.82	145.08	265.08	195.09	232.84	127.71	
G33	110.07	83.67	83.45	92.7	126.32	234.06	168.61	205.37	110.07	
G34	94.13	72.63	73.17	81.83	109.98	207.71	146.07	180.5	94.13	
G35	80.08	62.58	64.55	72.27	95.57	184.63	124.97	159.14	80.08	
G36	68.5	54.09	56.02	62.94	82.91	163.35	107.06	140.1	68.5	

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Humidity: 60
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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	58.94	47.85	48.8	54.59	72.18	144.9	91.49	123.0	58.94	
G38	50.19	42.6	42.33	48.08	62.85	129.37	77.66	106.25	50.19	
G39	42.47	38.56	36.85	42.91	54.86	115.01	65.9	93.33	42.47	
G40	36.09	34.92	32.19	38.74	47.85	101.81	56.43	82.6	36.09	
G41	30.26	31.38	27.61	35.37	40.94	89.78	46.91	74.16	30.26	
G42	25.23	28.15	23.66	32.23	34.92	79.46	39.37	66.53	25.23	
G43	20.74	24.96	20.47	29.18	29.72	69.85	32.77	60.06	20.74	
G44	16.79	21.95	17.64	26.13	25.32	62.35	26.75	54.18	16.79	
G45	13.56	18.85	15.53	23.07	21.37	55.98	21.68	48.84	13.56	
G46	11.31	16.16	14.1	20.25	18.14	50.68	17.46	43.86	11.31	
G47	9.61	13.6	12.79	17.19	16.07	45.56	13.87	39.55	9.61	
G48	8.44	11.4	12.21	14.5	14.41	41.12	11.27	34.97	8.44	
G49	7.86	9.79	11.45	12.25	13.29	36.5	9.61	30.84	7.86	
G50	7.23	8.04	11.0	10.06	12.57	32.37	8.53	27.11	7.23	
G51	6.96	7.09	10.32	8.57	12.08	28.55	7.9	23.43	6.96	
G52	6.6	6.55	10.01	7.45	11.36	25.05	7.41	20.16	6.6	
G53	6.33	6.11	9.52	6.96	11.09	21.46	6.91	17.37	6.33	
G54	6.02	5.75	9.02	6.46	10.46	18.58	6.78	14.9	6.02	
G55	5.75	5.34	8.66	6.11	10.06	15.85	6.37	13.15	5.75	
G56	5.57	5.16	8.26	5.79	9.52	14.01	6.19	11.99	5.57	
G57	5.39	4.85	7.77	5.57	9.11	12.66	5.75	11.18	5.39	
G58	4.85	4.67	7.32	5.21	8.57	11.49	5.52	10.5	4.85	
G59	4.58	4.26	7.0	4.89	8.04	11.18	4.98	9.97	4.58	
G60	4.26	4.04	6.6	4.53	7.59	10.37	4.62	9.43	4.26	
G61	4.0	3.55	6.06	4.31	7.18	9.83	4.35	9.11	4.0	
G62	3.37	3.32	5.7	3.73	6.69	9.47	4.17	8.53	3.37	
G63	3.1	2.96	5.3	3.5	6.15	9.02	3.59	7.9	3.1	
G64	2.74	2.6	5.16	3.28	5.66	8.57	3.1	7.5	2.74	
G65	2.56	2.38	4.85	2.96	5.39	7.81	2.56	7.0	2.56	
G66	2.42	2.29	4.8	2.51	5.12	7.36	2.24	6.6	2.42	
G67	2.29	2.06	4.35	2.33	4.89	6.91	2.15	6.28	2.29	
G68	2.06	1.98	4.35	2.11	4.76	6.28	1.98	5.84	2.06	
G69	2.11	1.62	4.0	2.06	4.4	5.79	1.89	5.34	2.11	
G70	1.75	1.48	4.0	1.84	4.13	5.3	1.84	4.85	1.75	
G71	1.62	1.39	3.73	1.8	4.0	5.03	1.66	4.58	1.62	
G72	1.53	1.26	3.55	1.57	3.77	4.76	1.53	4.4	1.53	
G73	1.39	1.03	3.14	1.44	3.5	4.49	1.39	4.17	1.39	

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Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

[illegible]

C Range: 0 - 360 Deg
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