

Report No.:

Test Time: 2024/6/28 10:01:00

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP100CT075H69-15°-10W
Lamp Type:
Luminous Width: 64 mm
Luminous Length: 64 mm
Luminous Height: 65 mm

Voltage(V): 218.90 V
Current(A): 0.0540 A
Power(W): 10.93 W
Power Factor: 0.9220
Lamp Luminous Flux: 1155.92

Photometric Results

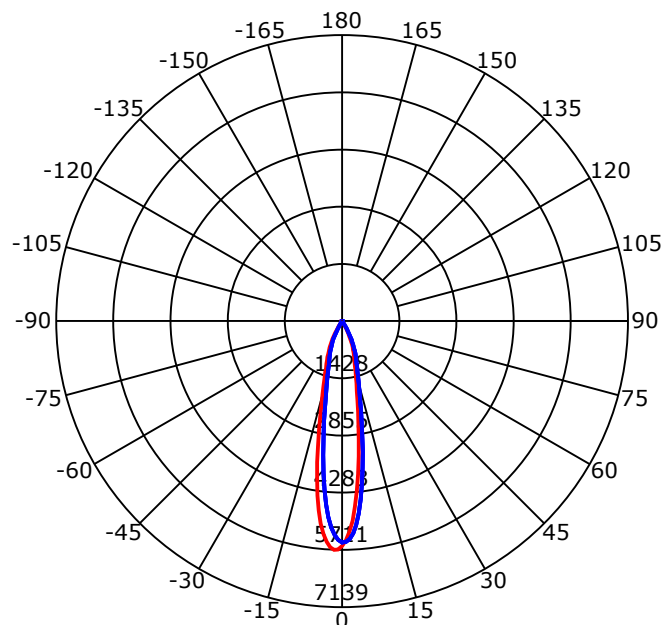
CIE Class: Direct
Luminaire Luminous Flux: 1155.917 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 105.76 lm/W
Beam Angle(50%) C0-180,C90-270: 20.1,20.0
Field Angle(10%) C0-180,C90-270: 50.9,51.4
S/MH C0-180,C90-270: 0.353,0.353

Max. Intensity: 5710.91 cd
Max.Intensity Angle: C=180 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 5615.47 cd
Effective Luminous Flux: 1009.54 lm
ERP(ϕ use)(120deg): 1154.38 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 20.1 deg,20.0 deg

C0-180 — C90-270 —

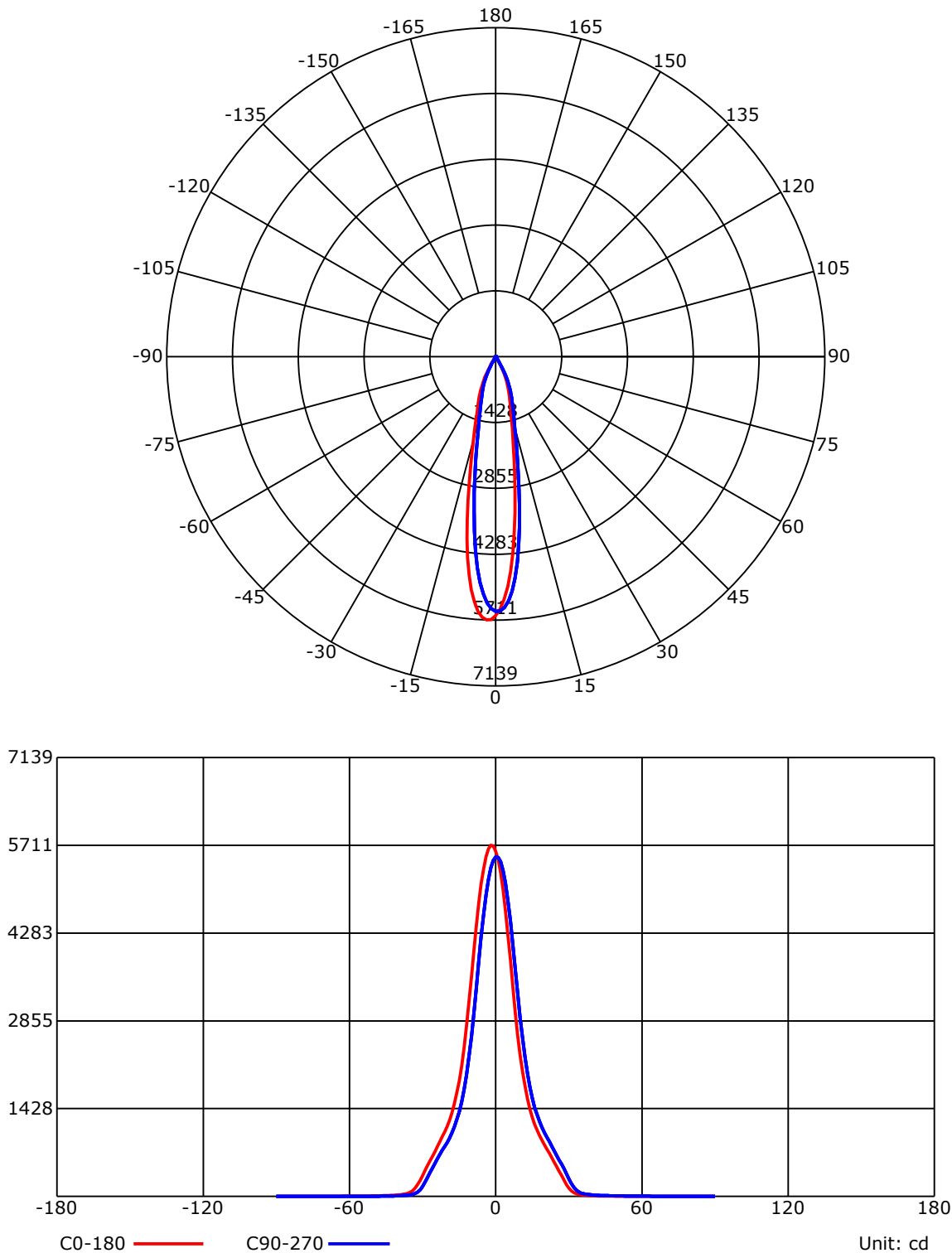
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/6/28 10:01:00

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

Report No.:

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Luminous Intensity Distribution Curve



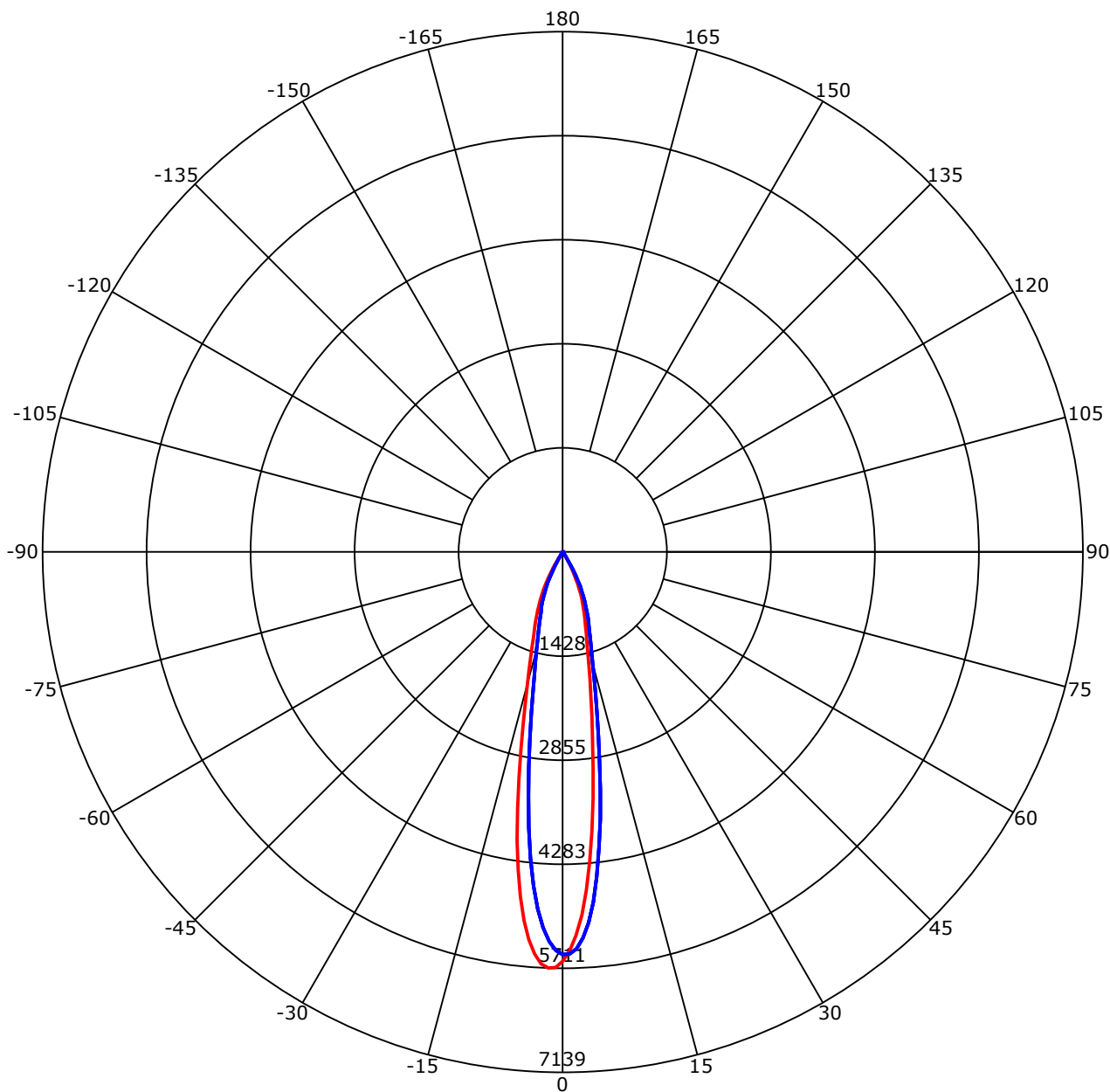
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Humidity: 60
Test Distance: 6.7 m
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Luminous Intensity Distribution Curve



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:

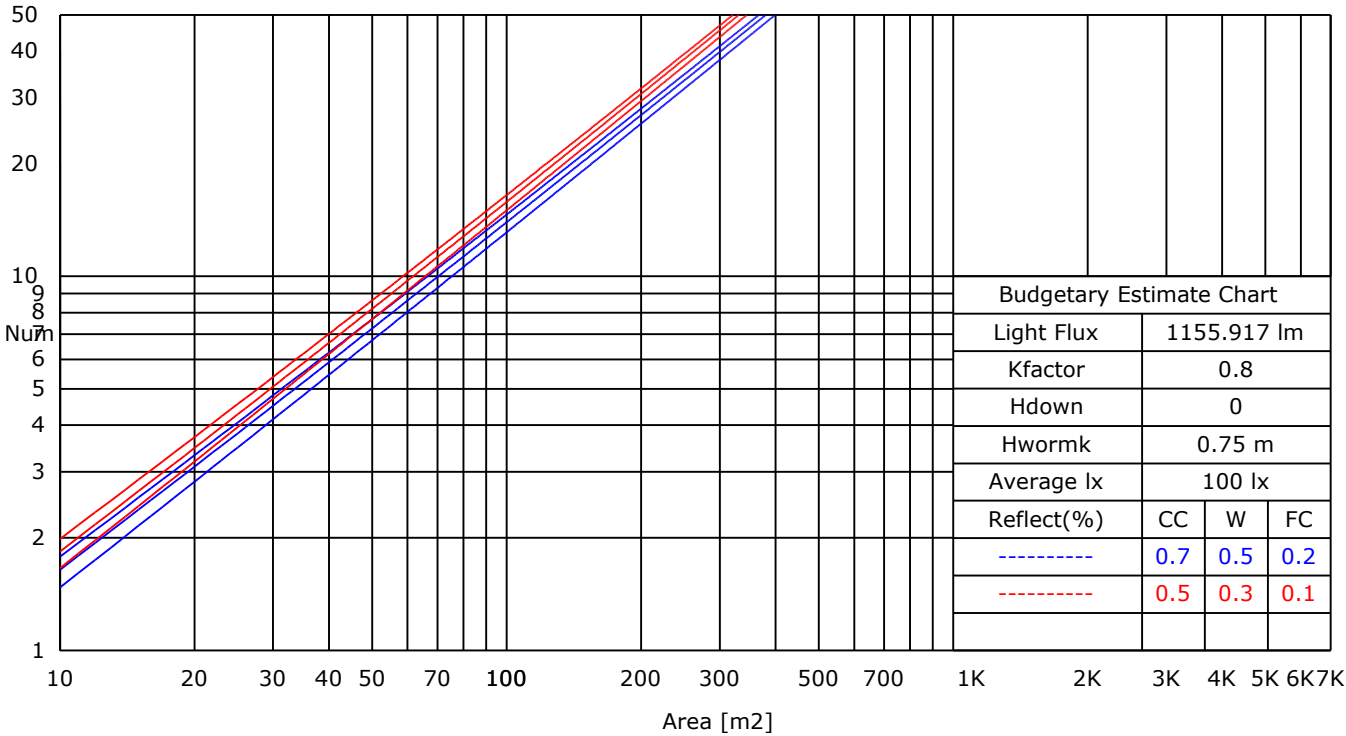
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UTILIZATION FACTORS TABLE

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	0.87	0.83	0.81	0.86	0.82	0.79	0.84	0.80	0.76	0.81	0.76	0.72	0.76	0.71	0.67	0.62
2	0.83	0.80	0.77	0.82	0.79	0.76	0.81	0.76	0.73	0.78	0.73	0.69	0.74	0.69	0.65	0.60
3	0.80	0.77	0.76	0.80	0.76	0.74	0.78	0.74	0.71	0.76	0.71	0.67	0.72	0.67	0.63	0.59
4	0.78	0.75	0.74	0.78	0.75	0.72	0.76	0.72	0.69	0.74	0.69	0.66	0.71	0.66	0.62	0.58
5	0.76	0.74	0.73	0.76	0.73	0.71	0.74	0.71	0.68	0.72	0.68	0.64	0.70	0.65	0.61	0.57
6	0.74	0.72	0.71	0.74	0.71	0.70	0.73	0.69	0.66	0.71	0.66	0.63	0.68	0.63	0.60	0.56
7	0.73	0.71	0.70	0.72	0.70	0.68	0.71	0.68	0.65	0.69	0.65	0.62	0.67	0.62	0.58	0.55
8	0.72	0.70	0.69	0.71	0.69	0.67	0.70	0.66	0.64	0.68	0.64	0.61	0.66	0.61	0.58	0.54
9	0.70	0.69	0.68	0.70	0.68	0.66	0.68	0.65	0.63	0.67	0.63	0.60	0.65	0.60	0.57	0.53
10	0.69	0.68	0.67	0.69	0.67	0.65	0.67	0.64	0.62	0.65	0.62	0.59	0.63	0.59	0.56	0.53

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



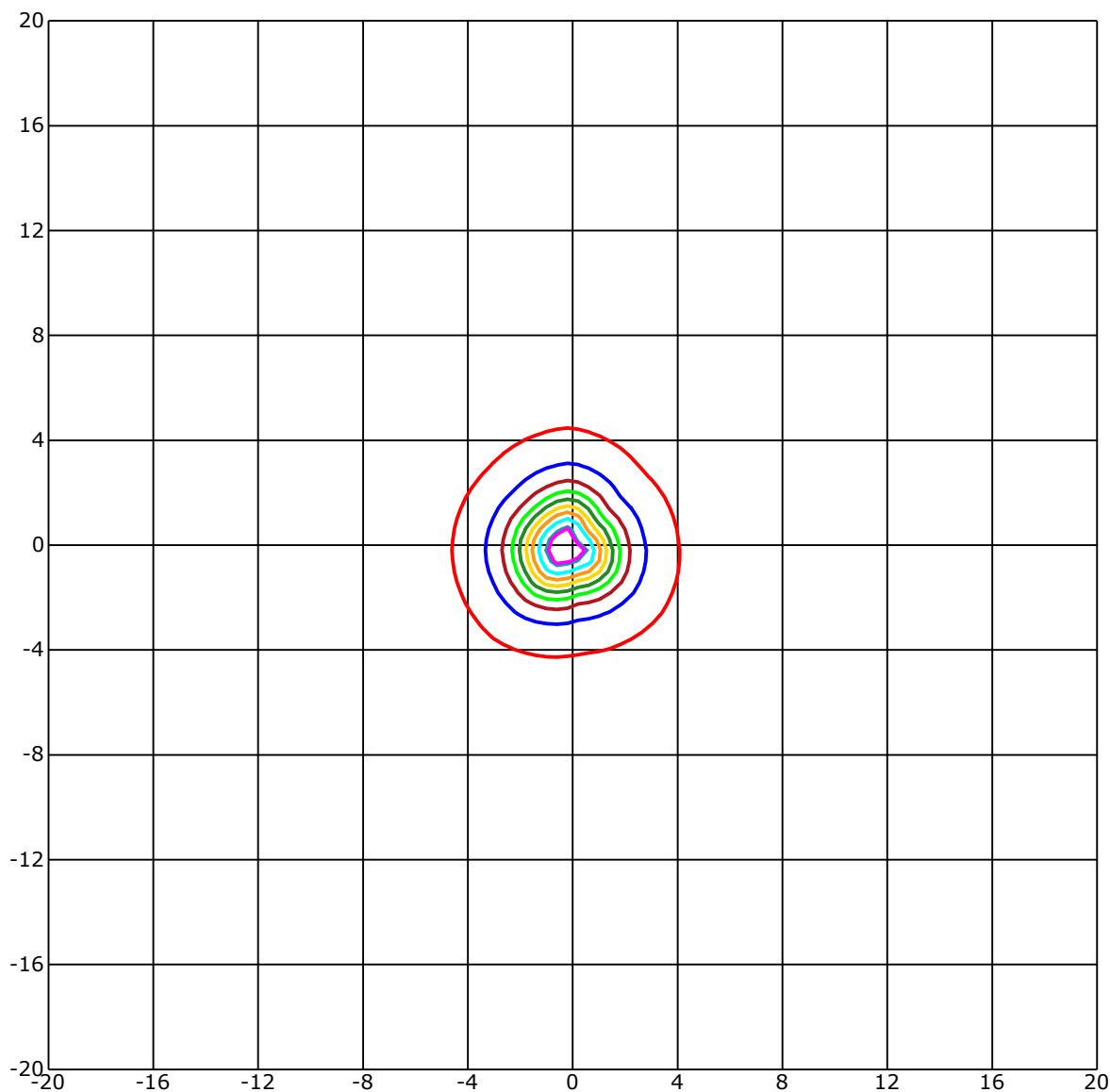
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ISOLX DIAGRAM



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

52.444(92%Emax)	28.502(50%Emax)
51.304(90%Emax)	22.802(40%Emax)
45.604(80%Emax)	17.101(30%Emax)
39.903(70%Emax)	11.401(20%Emax)
34.203(60%Emax)	5.7(10%Emax)

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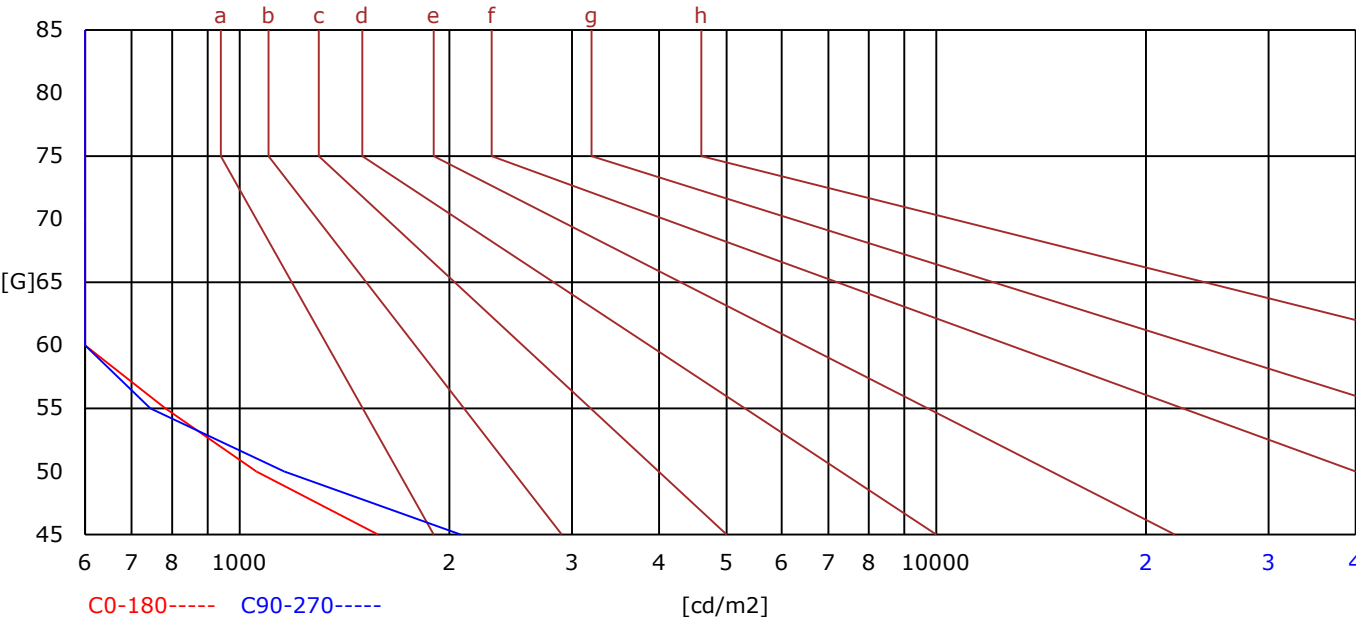
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BRIGHT LIMIT DIAGRAM

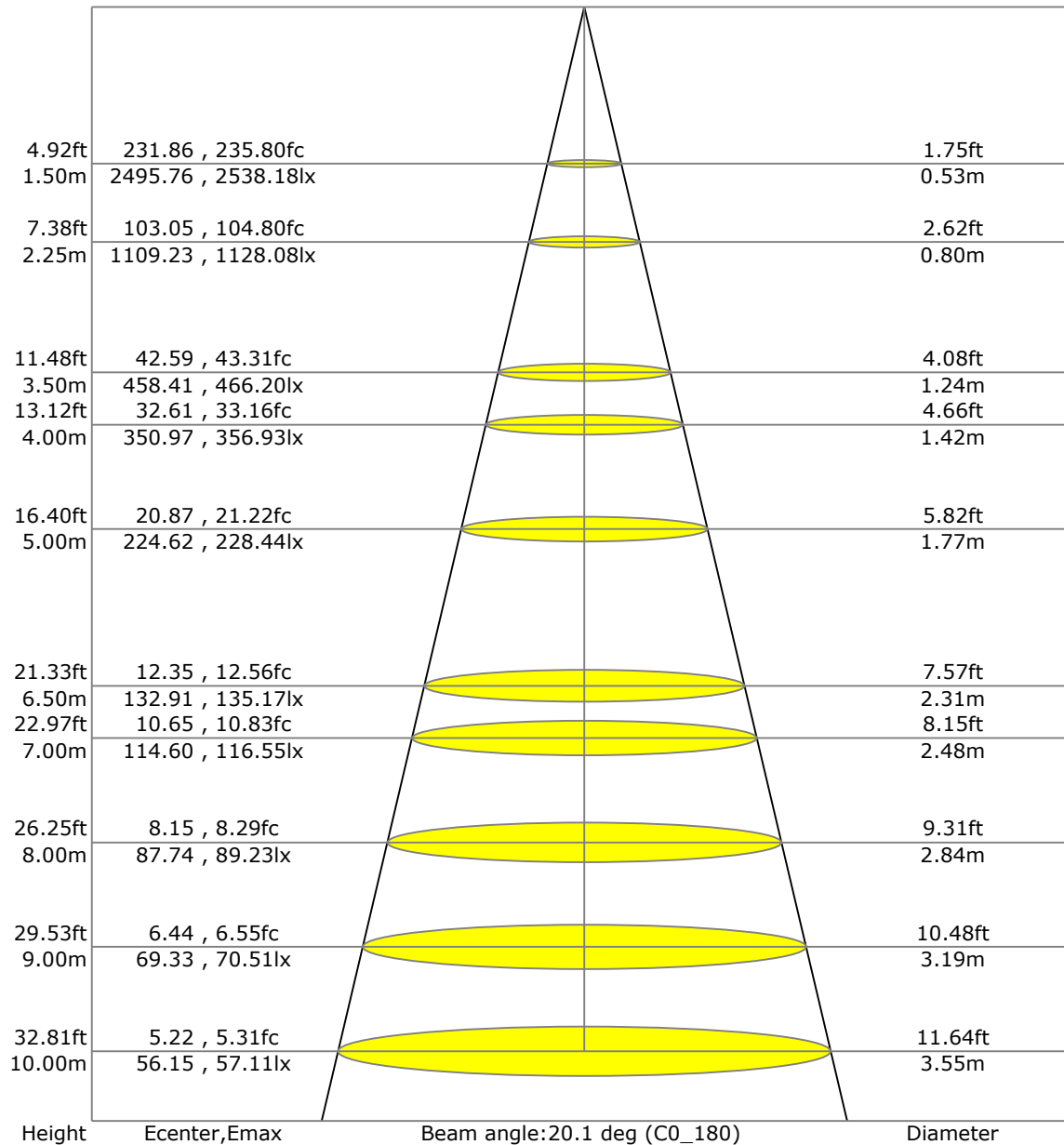
C/G	45	50	55	60	65	70	75	80	85
C0	1581	1057	783	219	0	0	0	0	0
C90	2077	1159	745	373	0	0	0	0	0
Dazzle	Quality	Illuminance	---	---	---	---	---	---	---
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
---	---	a	b	c	d	e	f	g	h



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LX-DISTANCE DIAGRAM



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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	1.35	1.41	1.55	1.60	1.84	1.35	1.41	1.55	1.60	1.84
3H	1.33	1.39	1.53	1.58	1.83	1.33	1.39	1.53	1.58	1.83
4H	1.31	1.38	1.52	1.57	1.82	1.31	1.38	1.52	1.57	1.82
6H	1.30	1.36	1.52	1.56	1.81	1.30	1.36	1.52	1.56	1.81
8H	1.29	1.35	1.51	1.56	1.81	1.29	1.35	1.51	1.56	1.81
12H	1.28	1.35	1.51	1.55	1.81	1.28	1.35	1.51	1.55	1.81
4H 2H	1.31	1.38	1.52	1.57	1.82	1.31	1.38	1.52	1.57	1.82
3H	1.28	1.35	1.51	1.55	1.81	1.28	1.35	1.51	1.55	1.81
4H	1.26	1.33	1.49	1.54	1.80	1.26	1.33	1.49	1.54	1.80
6H	1.24	1.31	1.48	1.53	1.79	1.24	1.31	1.48	1.53	1.79
8H	1.23	1.29	1.47	1.52	1.79	1.23	1.29	1.47	1.52	1.79
12H	1.22	1.28	1.47	1.51	1.78	1.22	1.28	1.47	1.51	1.78
8H 4H	1.29	1.35	1.51	1.56	1.81	1.29	1.35	1.51	1.56	1.81
6H	1.20	1.26	1.46	1.50	1.78	1.20	1.26	1.46	1.50	1.78
8H	1.19	1.25	1.45	1.49	1.77	1.19	1.25	1.45	1.49	1.77
12H	1.17	1.23	1.44	1.48	1.77	1.17	1.23	1.44	1.48	1.77
12H 4H	1.22	1.28	1.47	1.51	1.78	1.22	1.28	1.47	1.51	1.78
6H	1.19	1.25	1.45	1.49	1.77	1.19	1.25	1.45	1.49	1.77

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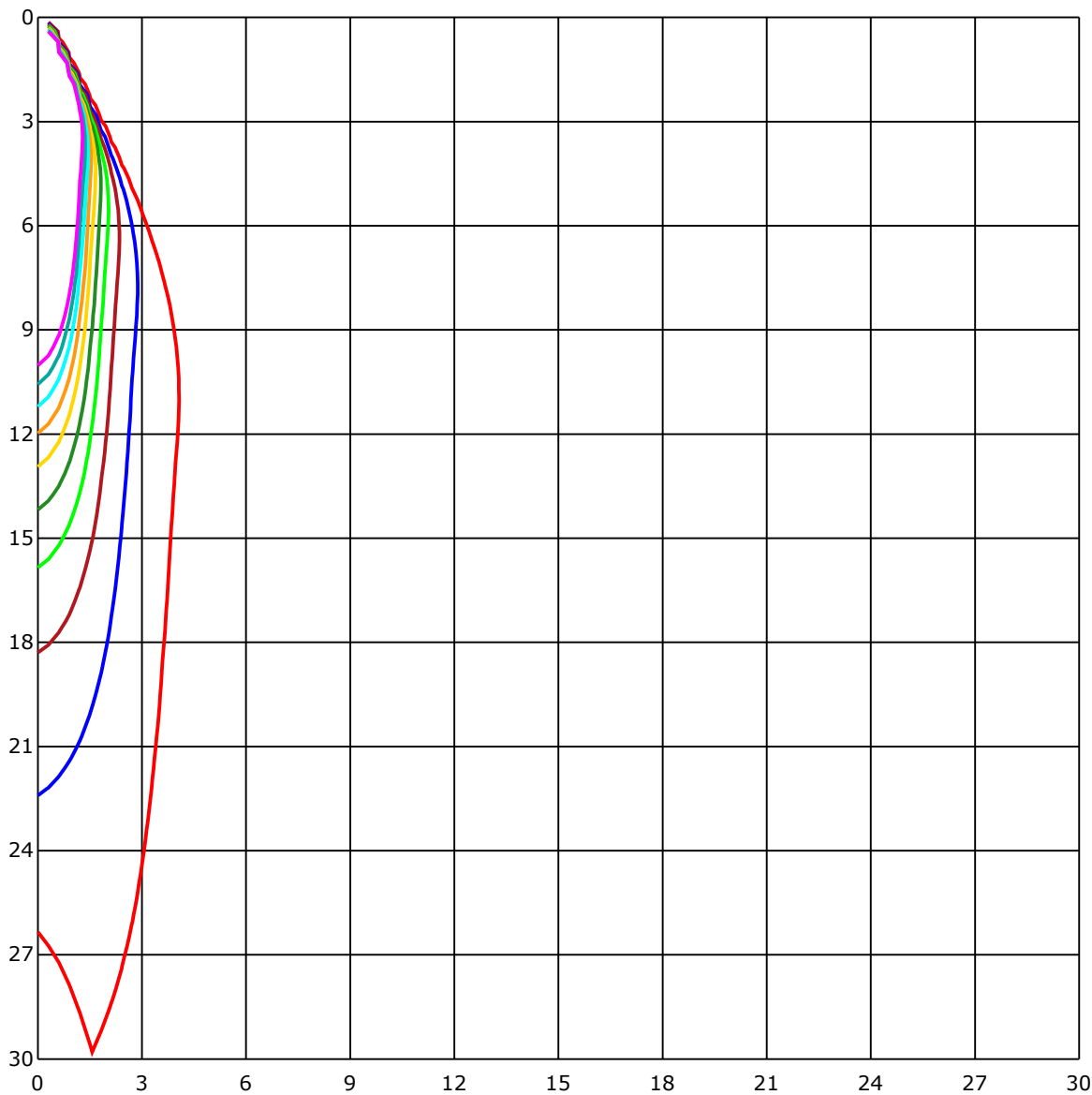
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Test Distance: 6.7 m
Remarks:

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SPACE ISOLX DIAGRAM



Unit of illumination:lx

- | | |
|--------|--------|
| 55.906 | 27.953 |
| 50.315 | 22.362 |
| 44.724 | 16.772 |
| 39.134 | 11.181 |
| 33.543 | 5.591 |

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	5615.47	5311.3	5523.45	5659.78	5615.47	5311.3	5523.45	5659.78	5615.47	
G1	5472.58	5103.19	5513.48	5655.6	5700.63	5446.14	5465.94	5604.2	5472.58	
G2	5260.21	4837.17	5444.44	5573.54	5710.91	5521.29	5346.67	5474.34	5260.21	
G3	4989.34	4505.97	5300.07	5430.93	5655.69	5527.31	5158.0	5284.54	4989.34	
G4	4646.12	4133.7	5098.16	5213.88	5527.84	5468.59	4908.72	5040.02	4646.12	
G5	4259.03	3737.59	4819.53	4936.51	5336.39	5338.86	4596.83	4724.0	4259.03	
G6	3841.15	3314.81	4478.41	4593.32	5081.01	5151.98	4223.25	4360.52	3841.15	
G7	3404.64	2916.23	4090.51	4192.46	4762.92	4894.72	3810.49	3974.38	3404.64	
G8	2986.44	2566.36	3697.59	3777.99	4394.15	4572.05	3378.65	3554.21	2986.44	
G9	2621.31	2258.69	3305.12	3354.76	3997.72	4197.98	2979.98	3143.11	2621.31	
G10	2300.03	1998.77	2914.57	2935.54	3574.91	3805.46	2599.22	2763.07	2300.03	
G11	2016.5	1775.09	2560.03	2567.84	3151.14	3387.53	2262.64	2402.92	2016.5	
G12	1792.28	1584.89	2258.78	2246.7	2765.85	2970.15	1967.17	2100.99	1792.28	
G13	1590.9	1425.93	2002.59	1972.65	2419.39	2599.36	1737.51	1849.11	1590.9	
G14	1420.59	1291.49	1785.23	1745.5	2120.33	2273.95	1537.75	1643.29	1420.59	
G15	1286.68	1177.87	1600.82	1559.84	1879.72	1997.38	1378.35	1462.34	1286.68	
G16	1170.64	1082.75	1444.74	1406.22	1677.49	1763.68	1243.68	1317.3	1170.64	
G17	1069.91	1004.59	1322.77	1275.15	1502.74	1569.89	1128.22	1189.63	1069.91	
G18	987.31	926.93	1213.24	1166.11	1358.46	1407.62	1032.2	1088.45	987.31	
G19	912.66	852.78	1117.27	1074.8	1235.15	1272.63	946.37	997.81	912.66	
G20	839.22	778.66	1036.11	996.69	1137.06	1161.26	874.14	925.81	839.22	
G21	769.15	708.18	964.73	920.69	1050.92	1070.22	814.57	857.8	769.15	
G22	698.4	634.97	888.42	841.19	968.5	984.71	748.59	794.55	698.4	
G23	628.77	568.08	813.5	769.15	885.77	907.05	679.68	729.15	628.77	
G24	554.53	499.67	738.98	691.31	806.85	831.99	609.56	662.17	554.53	
G25	483.11	430.14	666.44	614.86	728.07	758.24	537.83	588.82	483.11	
G26	410.61	353.78	592.73	543.03	652.34	687.8	463.8	515.07	410.61	
G27	335.87	279.57	525.03	471.03	576.97	614.99	387.09	437.86	335.87	
G28	262.52	206.67	449.08	396.06	503.13	542.9	308.75	360.2	262.52	
G29	193.03	144.28	368.01	316.92	423.45	469.82	233.29	282.81	193.03	
G30	135.12	97.46	286.67	242.77	342.02	390.36	165.64	211.21	135.12	
G31	90.54	65.85	212.11	174.67	264.0	310.5	109.8	150.34	90.54	
G32	61.23	46.91	149.57	121.16	196.66	232.26	70.43	104.91	61.23	
G33	44.17	34.97	103.61	81.03	137.86	165.51	48.8	74.83	44.17	
G34	33.17	26.98	73.8	55.57	96.83	114.2	34.97	56.47	33.17	
G35	24.91	22.04	55.08	39.28	70.52	80.22	25.9	43.41	24.91	
G36	20.11	18.36	42.42	28.64	53.19	59.17	20.25	35.28	20.11	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	16.7	15.31	34.66	21.95	41.12	45.79	16.74	29.63	16.7	
G38	13.74	13.15	29.72	17.78	33.62	36.9	14.05	25.72	13.74	
G39	11.67	11.0	25.77	14.77	28.59	31.11	12.03	22.58	11.67	
G40	9.88	9.2	22.76	12.48	24.91	26.84	10.32	20.11	9.88	
G41	8.44	7.86	20.2	10.73	21.73	23.7	8.93	17.69	8.44	
G42	7.41	6.69	18.0	9.16	19.39	21.01	7.5	15.98	7.41	
G43	6.33	6.06	16.16	7.99	17.37	18.58	6.42	14.28	6.33	
G44	5.66	5.16	14.63	7.0	15.58	16.61	5.52	12.97	5.66	
G45	4.8	4.58	13.2	6.02	14.1	14.77	4.76	11.72	4.8	
G46	4.4	4.22	12.17	5.3	12.75	13.29	4.13	10.73	4.4	
G47	3.86	3.64	11.18	4.53	11.54	12.08	3.5	9.7	3.86	
G48	3.59	3.37	10.19	4.04	10.46	11.09	3.05	8.98	3.59	
G49	3.14	3.19	9.52	3.5	9.7	10.28	2.51	8.26	3.14	
G50	2.78	2.78	8.89	3.05	8.89	9.38	2.2	7.72	2.78	
G51	2.51	2.69	8.3	2.6	8.21	8.48	2.11	7.05	2.51	
G52	2.38	2.38	7.86	2.42	7.59	7.9	1.89	6.73	2.38	
G53	2.06	2.24	7.45	2.06	7.09	7.32	1.66	6.37	2.06	
G54	1.93	1.93	6.96	1.98	6.64	6.73	1.39	5.88	1.93	
G55	1.62	1.84	6.55	1.75	6.24	6.37	1.17	5.61	1.62	
G56	1.57	1.39	6.24	1.57	5.97	6.11	1.03	5.34	1.57	
G57	1.3	1.26	5.88	1.35	5.66	5.66	0.72	4.85	1.3	
G58	1.26	1.03	5.57	1.03	5.3	5.12	0.45	4.44	1.26	
G59	0.85	0.76	5.07	0.9	4.8	4.85	0.31	4.08	0.85	
G60	0.63	0.45	4.58	0.76	4.44	4.44	0.22	3.86	0.63	
G61	0.31	0.22	4.22	0.49	4.0	4.31	0.0	3.46	0.31	
G62	0.0	0.0	3.91	0.22	3.73	3.86	0.0	3.19	0.0	
G63	0.0	0.0	3.55	0.0	3.41	3.41	0.0	2.78	0.0	
G64	0.0	0.0	3.01	0.0	3.01	3.05	0.0	2.6	0.0	
G65	0.0	0.0	2.74	0.0	2.65	2.6	0.0	2.24	0.0	
G66	0.0	0.0	2.15	0.0	2.51	2.29	0.0	1.89	0.0	
G67	0.0	0.0	1.62	0.0	2.11	2.11	0.0	1.21	0.0	
G68	0.0	0.0	1.17	0.0	1.44	1.8	0.0	0.99	0.0	
G69	0.0	0.0	1.12	0.0	1.08	1.26	0.0	0.9	0.0	
G70	0.0	0.0	0.99	0.0	0.76	0.9	0.0	0.81	0.0	
G71	0.0	0.0	0.81	0.0	0.67	0.72	0.0	0.63	0.0	
G72	0.0	0.0	0.58	0.0	0.76	0.58	0.0	0.63	0.0	
G73	0.0	0.0	0.58	0.0	0.63	0.63	0.0	0.58	0.0	

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