

Report No.:

Test Time: 2025/7/19 15:02:22

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP104CT080-24°-8W
Lamp Type:
Luminous Width: 72 mm
Luminous Length: 72 mm
Luminous Height: 68 mm

Voltage(V): 219.80 V
Current(A): 0.0420 A
Power(W): 8.72 W
Power Factor: 0.9310
Lamp Luminous Flux: 728.11

Photometric Results

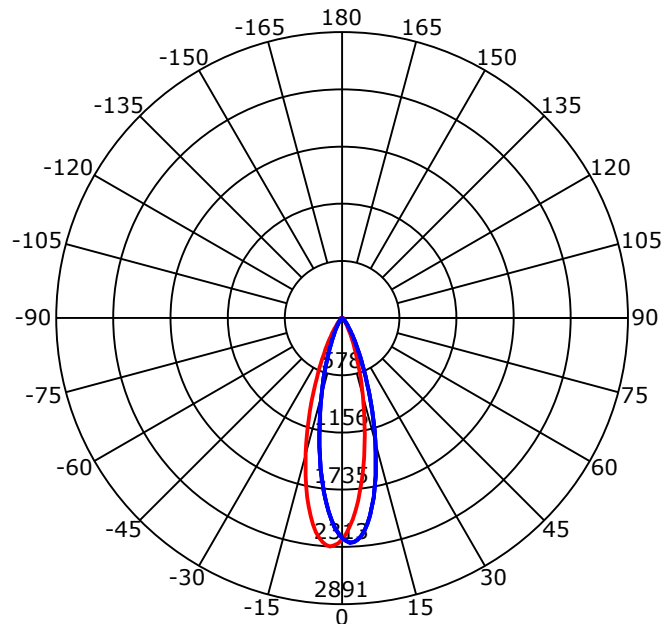
CIE Class: Direct
Luminaire Luminous Flux: 728.1051 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 83.48 lm/W
Beam Angle(50%) C0-180,C90-270: 28.9,28.2
Field Angle(10%) C0-180,C90-270: 56.6,54.8
S/MH C0-180,C90-270: 0.499,0.499

Max. Intensity: 2312.74 cd
Max.Intensity Angle: C=180 Gamma=3
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 2235.81 cd
Effective Luminous Flux: 618.95 lm
ERP(ϕ use)(120deg): 725.26 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 28.9 deg,28.2 deg

C0-180 — C90-270 —

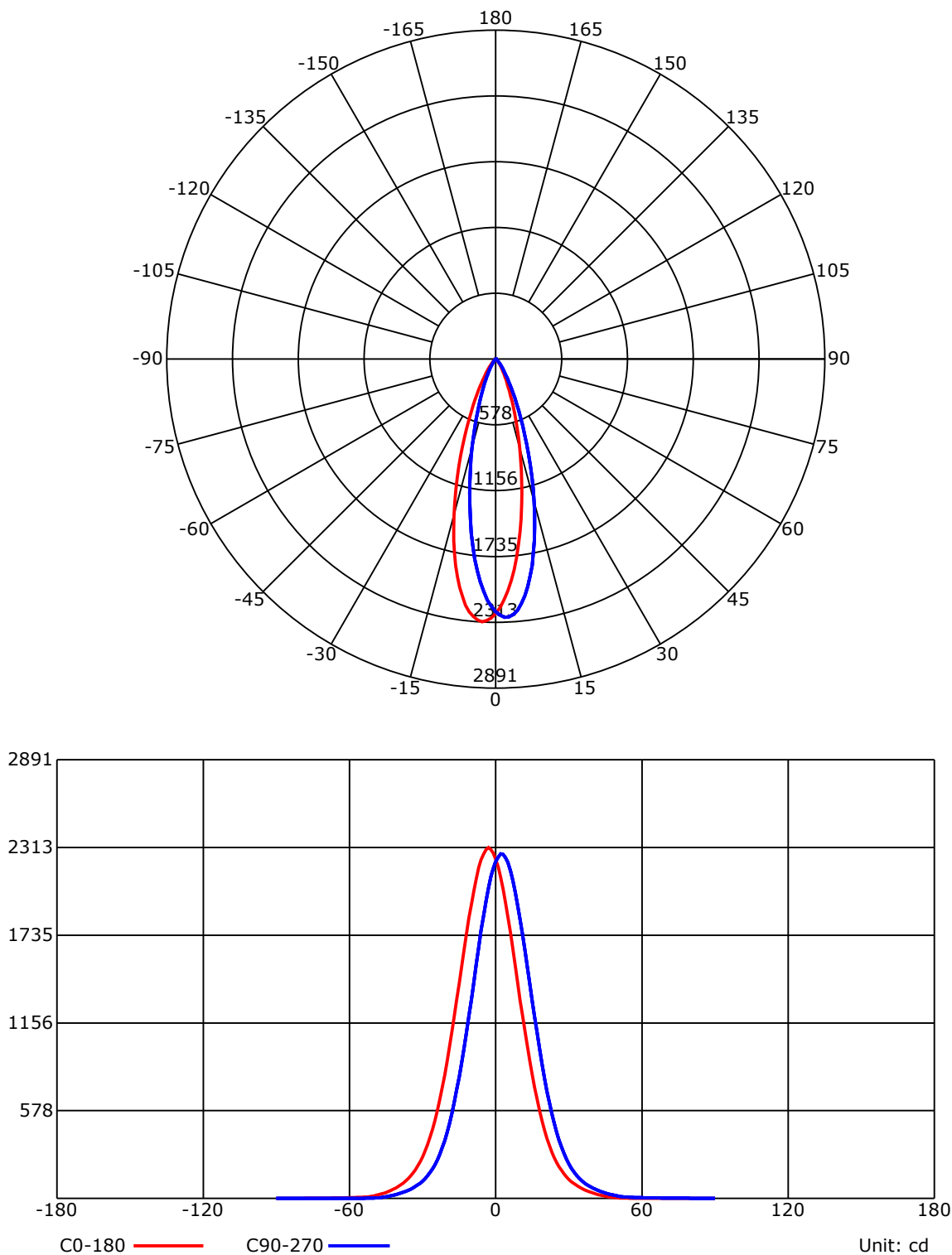
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/7/19 15:02:22

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

Report No.:

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Luminous Intensity Distribution Curve



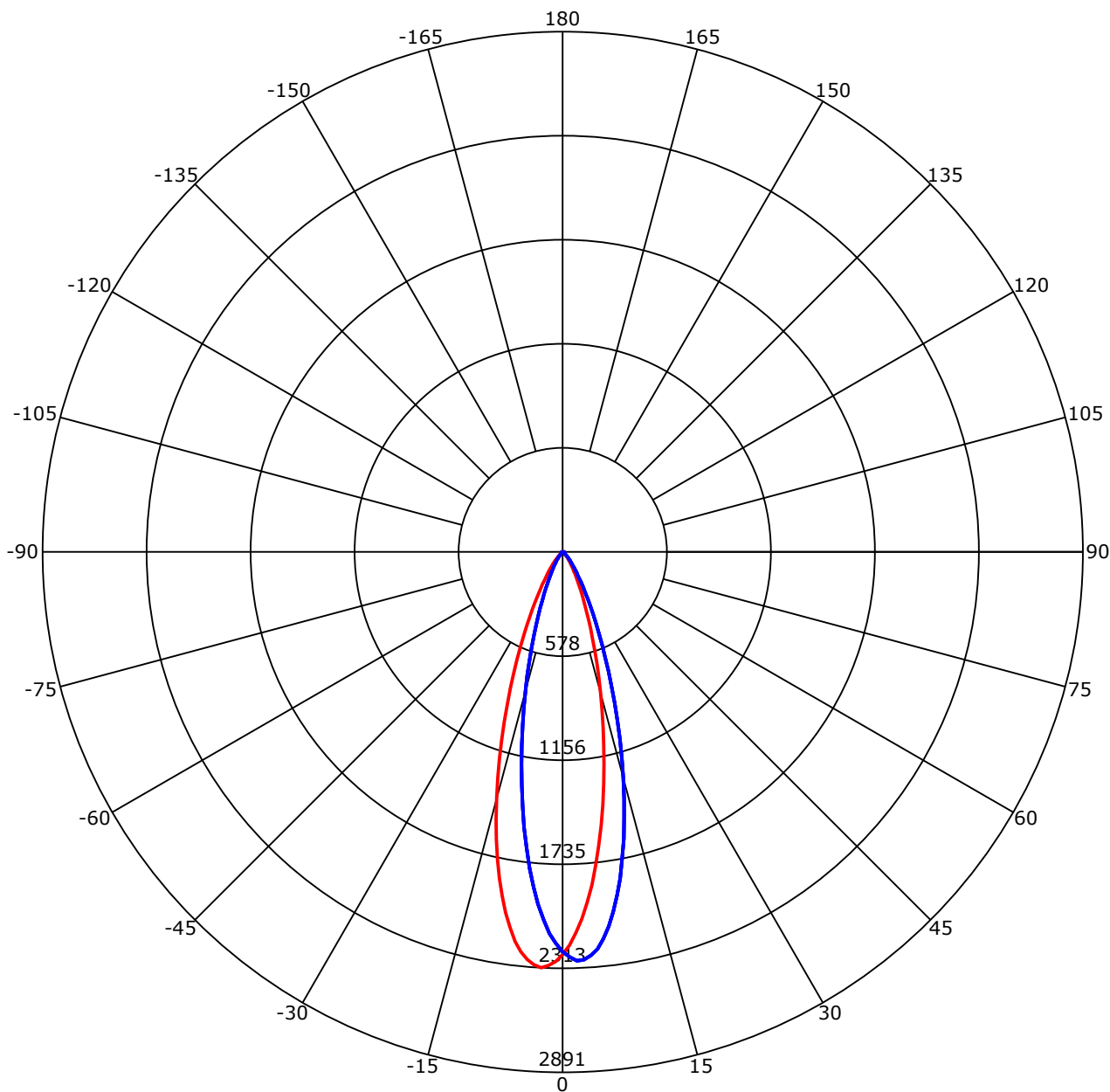
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Luminous Intensity Distribution Curve



C0-180 — C90-270 —

Unit: cd/klm

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/7/19 15:02:22

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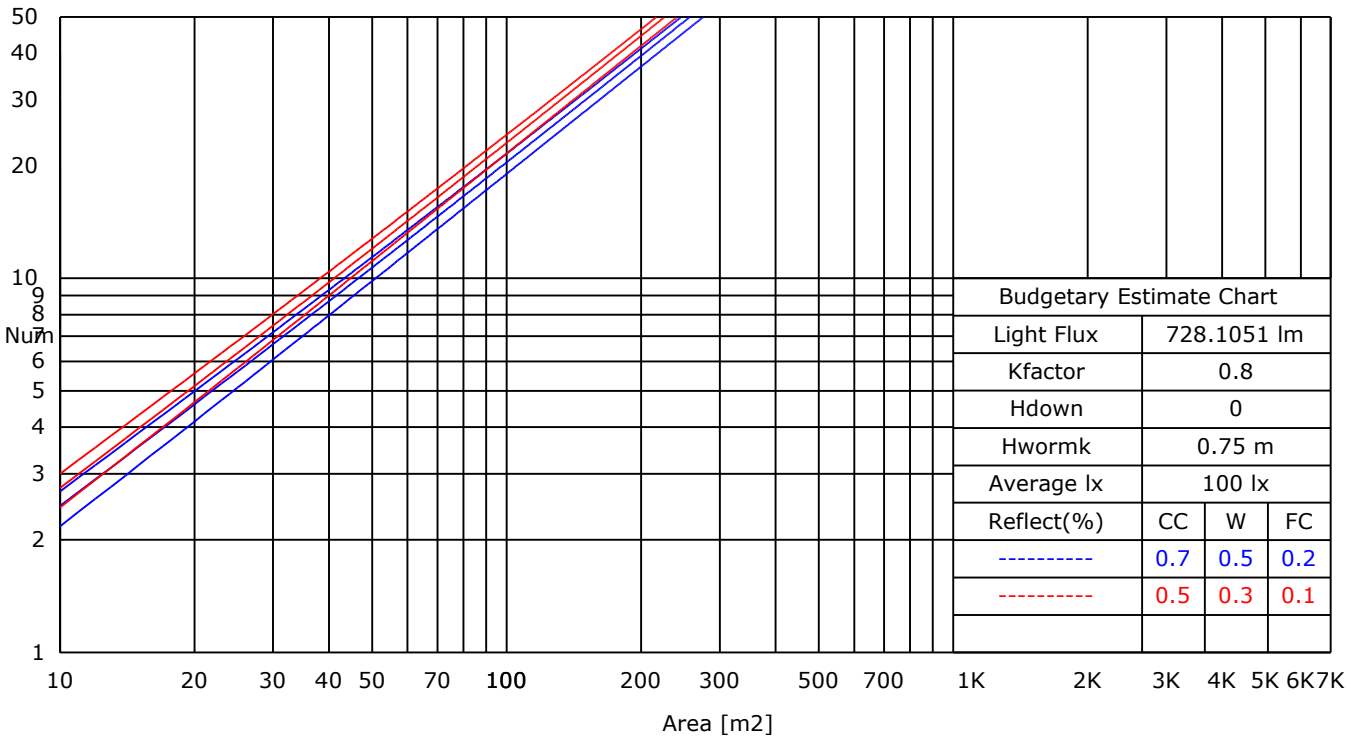
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UTILIZATION FACTORS TABLE

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	0.97	0.95	0.93	0.96	0.94	0.91	0.93	0.90	0.88	0.89	0.86	0.83	0.83	0.80	0.77	0.72
2	0.91	0.89	0.87	0.90	0.87	0.85	0.88	0.84	0.82	0.84	0.81	0.77	0.80	0.76	0.72	0.68
3	0.87	0.85	0.84	0.87	0.84	0.82	0.85	0.81	0.78	0.81	0.78	0.74	0.77	0.73	0.70	0.65
4	0.85	0.83	0.81	0.84	0.81	0.80	0.82	0.79	0.76	0.79	0.75	0.72	0.76	0.71	0.68	0.64
5	0.82	0.81	0.79	0.82	0.79	0.78	0.80	0.76	0.74	0.77	0.73	0.70	0.74	0.70	0.66	0.62
6	0.80	0.79	0.78	0.80	0.77	0.76	0.78	0.75	0.72	0.75	0.72	0.69	0.73	0.68	0.65	0.61
7	0.79	0.77	0.76	0.78	0.76	0.74	0.76	0.73	0.71	0.74	0.70	0.67	0.71	0.67	0.63	0.60
8	0.77	0.75	0.75	0.76	0.74	0.73	0.74	0.71	0.69	0.72	0.68	0.66	0.70	0.65	0.62	0.59
9	0.75	0.74	0.73	0.74	0.73	0.71	0.73	0.70	0.68	0.71	0.67	0.64	0.68	0.64	0.61	0.57
10	0.74	0.73	0.72	0.73	0.71	0.70	0.71	0.68	0.67	0.69	0.66	0.63	0.67	0.63	0.60	0.56

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



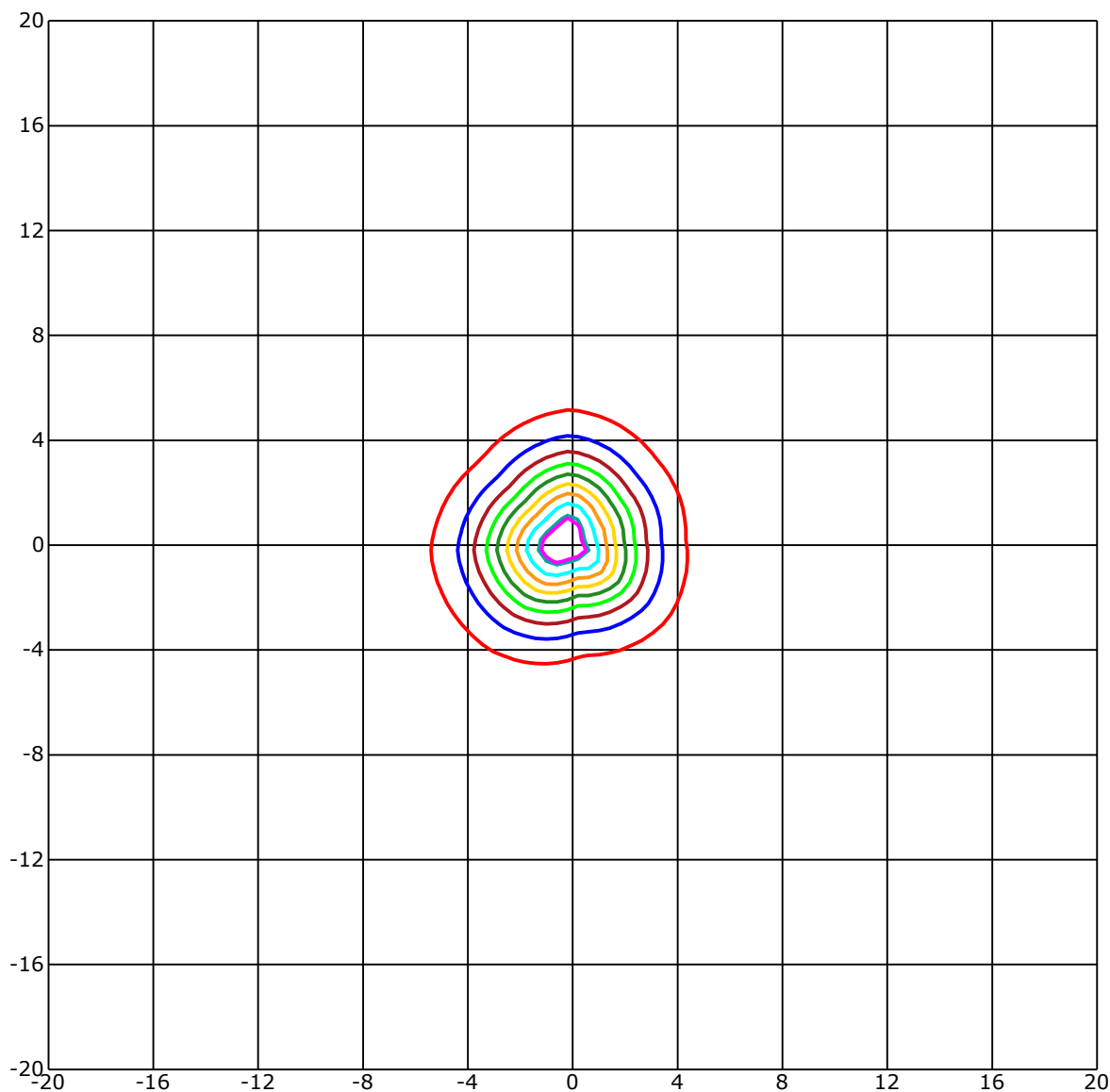
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Temperature: 25
Operators: QC01
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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ISOLX DIAGRAM



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

21.209(92%Emax)	11.527(50%Emax)
20.748(90%Emax)	9.221(40%Emax)
18.443(80%Emax)	6.916(30%Emax)
16.137(70%Emax)	4.611(20%Emax)
13.832(60%Emax)	2.305(10%Emax)

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
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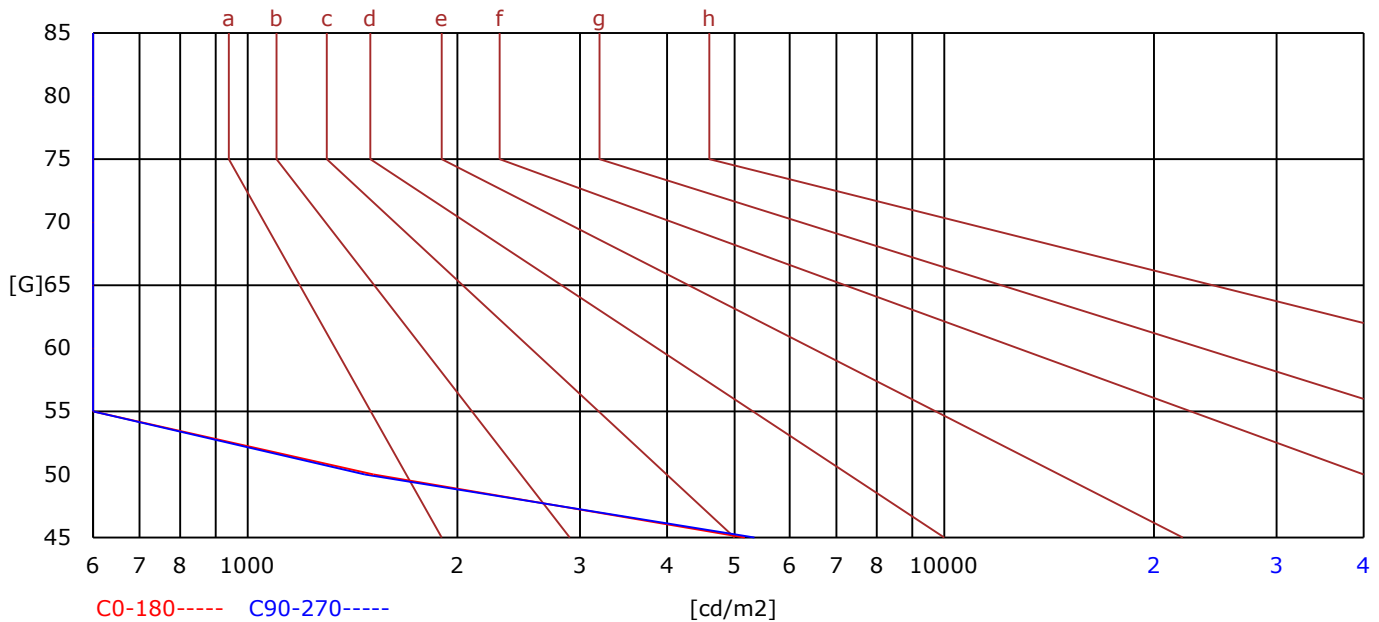
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	5176	1516	524	91	0	0	0	0	0
C90	5343	1473	508	55	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



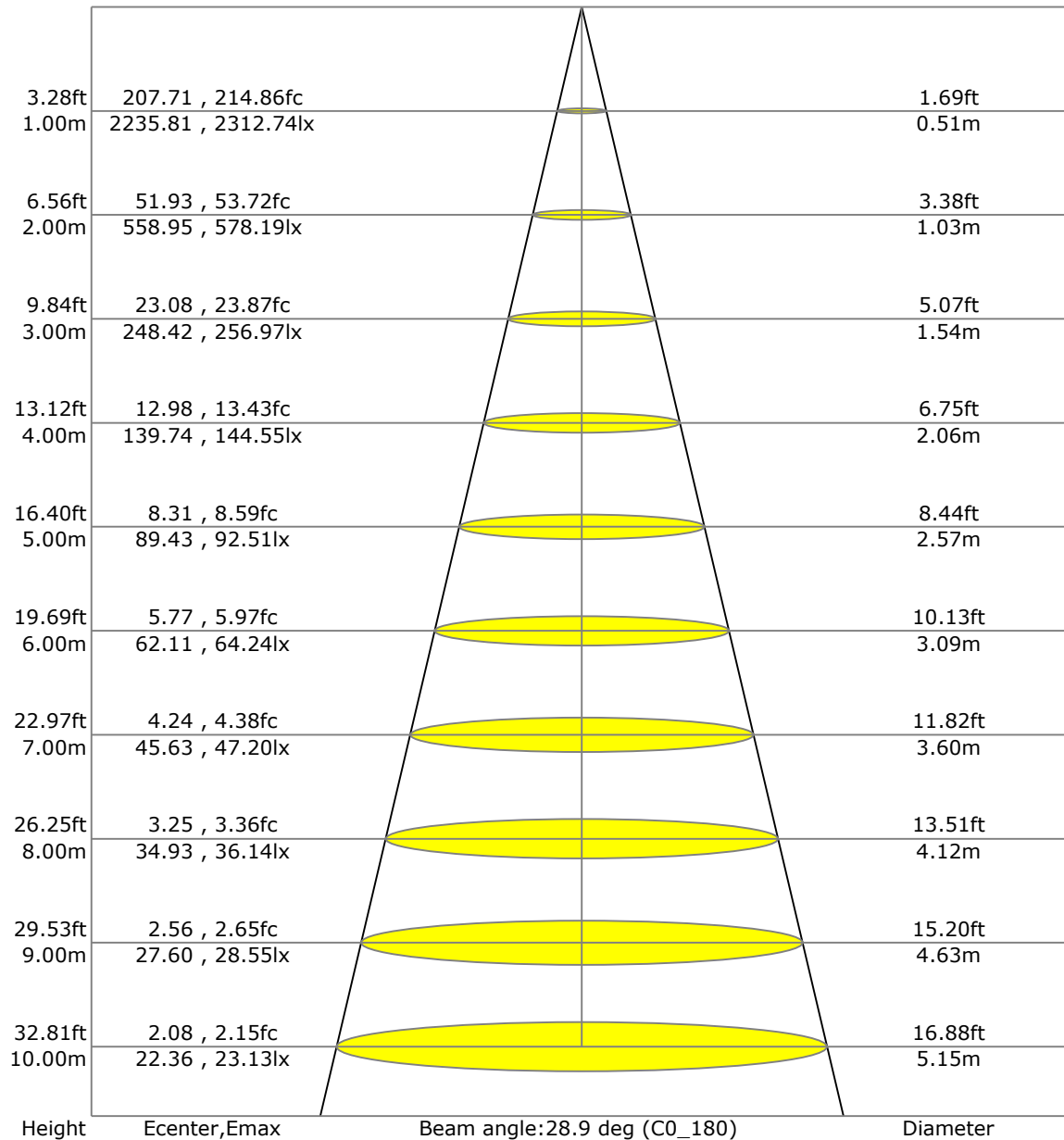
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G Interval: 1.0 Deg
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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 25
 Operators: QC01
 Test Date: 2025/7/19 15:02:22

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1600B Goniophotometer
 Humidity: 60
 Test Distance: 6.87 m
 Remarks:

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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	7.95	8.01	8.15	8.19	8.44	8.30	8.35	8.50	8.54	8.78
3H	7.93	7.99	8.14	8.18	8.43	8.28	8.33	8.48	8.52	8.77
4H	7.92	7.97	8.13	8.17	8.42	8.26	8.32	8.47	8.51	8.76
6H	7.90	7.96	8.12	8.16	8.41	8.25	8.30	8.46	8.50	8.76
8H	7.90	7.95	8.11	8.16	8.41	8.24	8.30	8.46	8.50	8.75
12H	7.89	7.94	8.11	8.15	8.40	8.23	8.29	8.45	8.49	8.75
4H 2H	7.91	7.97	8.13	8.17	8.42	8.37	8.43	8.58	8.62	8.87
3H	7.89	7.94	8.11	8.15	8.40	8.34	8.40	8.56	8.61	8.86
4H	7.87	7.92	8.10	8.14	8.40	8.32	8.38	8.55	8.59	8.85
6H	7.85	7.90	8.09	8.13	8.39	8.30	8.36	8.54	8.58	8.84
8H	7.84	7.89	8.08	8.12	8.38	8.29	8.34	8.53	8.57	8.84
12H	7.82	7.88	8.07	8.11	8.38	8.28	8.33	8.53	8.56	8.83
8H 4H	7.89	7.95	8.11	8.15	8.40	8.42	8.47	8.64	8.68	8.93
6H	7.81	7.86	8.06	8.10	8.37	8.34	8.40	8.60	8.63	8.91
8H	7.79	7.84	8.06	8.09	8.37	8.33	8.38	8.59	8.62	8.90
12H	7.78	7.82	8.05	8.08	8.36	8.31	8.36	8.58	8.61	8.89
12H 4H	7.82	7.87	8.07	8.11	8.38	8.38	8.44	8.63	8.67	8.94
6H	7.79	7.84	8.05	8.09	8.37	8.35	8.40	8.62	8.65	8.93

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Humidity: 60

Test Distance: 6.87 m

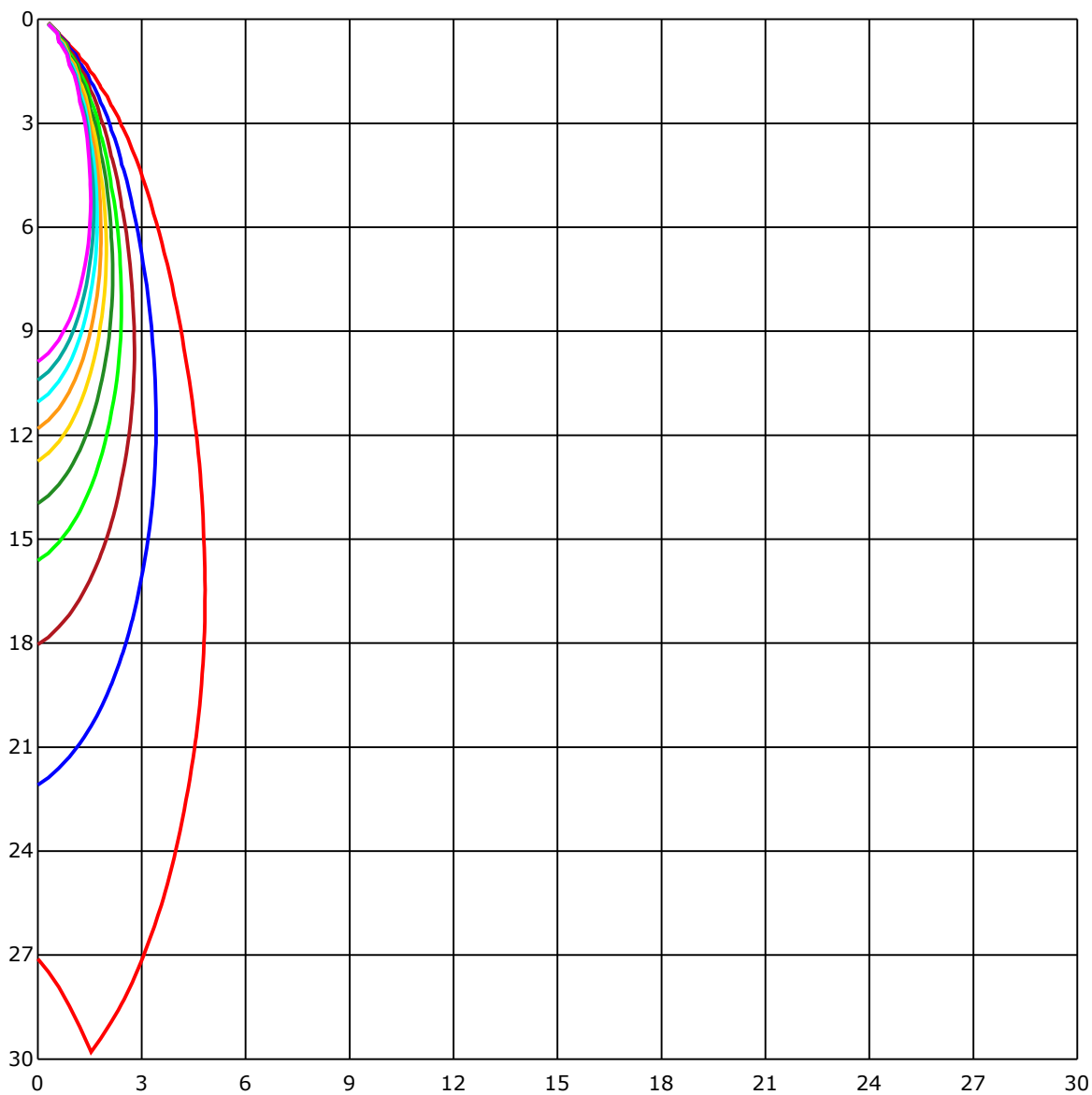
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SPACE ISOLX DIAGRAM



Unit of illumination:lx

22.909

20.618

18.327

16.036

13.745

11.455

9.164

6.873

4.582

2.291

C Range: 0 - 360 Deg

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Operators: QC01

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G Interval: 1.0 Deg

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	2235.81	2219.62	2220.94	2300.38	2235.81	2219.62	2220.94	2300.38	2235.81	
G1	2183.75	2194.04	2250.58	2306.37	2276.26	2238.55	2174.17	2275.32	2183.75	
G2	2114.85	2146.14	2271.73	2288.67	2298.77	2238.6	2121.08	2238.46	2114.85	
G3	2039.76	2085.87	2267.43	2262.05	2312.74	2223.21	2044.81	2187.34	2039.76	
G4	1951.21	2017.43	2246.71	2212.35	2298.44	2192.49	1961.74	2119.47	1951.21	
G5	1856.87	1937.34	2214.43	2153.41	2271.78	2146.14	1867.49	2041.17	1856.87	
G6	1752.47	1846.39	2159.68	2075.72	2231.99	2095.45	1767.15	1953.06	1752.47	
G7	1643.63	1749.45	2095.17	1989.92	2179.41	2023.0	1654.35	1854.56	1643.63	
G8	1533.9	1646.42	2018.05	1893.73	2106.63	1941.02	1545.23	1742.89	1533.9	
G9	1421.67	1544.14	1929.83	1790.7	2028.1	1852.81	1427.42	1632.92	1421.67	
G10	1306.79	1441.49	1839.55	1683.14	1941.07	1754.73	1313.54	1523.8	1306.79	
G11	1200.03	1335.39	1732.98	1573.21	1847.38	1651.47	1201.82	1418.22	1200.03	
G12	1097.28	1232.41	1629.43	1458.2	1744.73	1547.26	1094.69	1306.13	1097.28	
G13	1001.09	1128.48	1519.36	1344.92	1637.69	1440.69	991.84	1196.77	1001.09	
G14	904.62	1028.66	1411.14	1229.67	1529.94	1337.04	896.08	1089.78	904.62	
G15	815.09	931.95	1298.76	1119.94	1419.54	1230.66	803.1	987.22	815.09	
G16	729.71	840.72	1193.56	1014.55	1308.96	1131.03	717.06	884.42	729.71	
G17	649.71	753.69	1085.77	914.3	1201.11	1029.32	635.36	790.97	649.71	
G18	575.47	672.74	983.54	814.71	1098.74	931.81	560.13	703.85	575.47	
G19	510.15	600.11	885.13	725.13	1000.67	839.3	493.16	625.78	510.15	
G20	450.73	533.42	794.32	642.3	902.83	753.5	433.93	552.63	450.73	
G21	397.35	473.57	708.14	568.63	811.74	674.4	379.23	488.49	397.35	
G22	348.5	420.67	630.17	500.38	726.08	600.39	331.84	431.95	348.5	
G23	304.89	372.1	558.2	441.01	648.11	532.95	289.13	379.7	304.89	
G24	268.69	328.11	495.05	386.07	577.31	472.35	252.46	332.03	268.69	
G25	236.22	288.56	435.06	337.69	512.61	418.26	221.26	291.02	236.22	
G26	207.81	254.44	383.43	293.66	454.18	369.83	194.03	255.38	207.81	
G27	183.64	224.14	336.23	256.99	401.46	326.37	169.58	223.81	183.64	
G28	161.08	197.42	295.08	223.76	354.31	288.23	148.43	196.29	161.08	
G29	141.54	173.64	258.69	195.4	312.49	254.44	129.93	171.89	141.54	
G30	124.32	153.06	227.35	170.14	275.35	224.14	114.64	151.69	124.32	
G31	110.16	135.08	199.41	148.39	243.21	197.76	100.58	134.37	110.16	
G32	98.03	119.31	174.82	129.84	214.13	174.3	89.01	119.31	98.03	
G33	87.22	105.96	154.1	114.31	187.8	154.24	78.54	106.33	87.22	
G34	77.17	94.49	136.64	100.44	165.85	137.15	69.05	95.2	77.17	
G35	68.11	83.54	120.73	88.59	146.74	121.58	60.65	85.38	68.11	
G36	60.03	73.86	107.37	77.78	129.89	107.33	53.38	75.89	60.03	

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Humidity: 60
Test Distance: 6.87 m
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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	52.77	64.85	95.57	68.01	114.17	95.05	46.25	67.49	52.77	
G38	45.88	57.06	85.05	59.28	100.58	83.87	40.26	59.99	45.88	
G39	40.02	49.98	75.75	51.68	88.92	74.52	34.83	53.8	40.02	
G40	34.64	43.28	67.35	44.6	78.35	65.46	29.78	47.24	34.64	
G41	29.78	37.29	59.47	38.47	69.14	57.91	25.16	41.77	29.78	
G42	25.3	31.95	52.53	32.8	60.98	50.83	21.05	36.72	25.3	
G43	21.19	27.14	45.97	27.99	53.43	43.75	17.46	32.24	21.19	
G44	17.79	22.84	40.26	23.46	46.02	38.04	14.11	27.7	17.79	
G45	14.49	18.97	35.3	19.59	39.74	32.71	11.09	24.16	14.49	
G46	11.7	15.53	30.73	15.95	34.31	28.08	8.54	20.81	11.7	
G47	9.01	12.51	26.67	12.79	29.5	23.83	6.14	17.89	9.01	
G48	6.61	9.63	22.98	9.77	25.01	19.68	4.44	14.91	6.61	
G49	4.96	6.99	19.45	7.03	20.67	15.95	3.4	12.41	4.96	
G50	3.68	5.05	16.33	4.91	16.71	13.12	2.83	10.48	3.68	
G51	2.88	3.82	13.4	3.78	13.64	11.04	2.08	9.25	2.88	
G52	2.41	3.11	11.37	2.88	11.28	9.58	1.7	8.12	2.41	
G53	1.89	2.6	9.82	2.17	9.72	8.45	1.37	7.6	1.89	
G54	1.51	2.03	8.73	1.84	8.54	7.65	1.18	6.84	1.51	
G55	1.27	1.56	7.74	1.51	7.74	6.99	0.76	6.42	1.27	
G56	0.99	1.23	7.13	1.13	7.03	6.51	0.38	5.76	0.99	
G57	0.71	0.94	6.56	0.9	6.61	5.9	0.24	5.38	0.71	
G58	0.47	0.66	6.14	0.61	5.9	5.33	0.19	4.96	0.47	
G59	0.42	0.52	5.52	0.47	5.57	5.05	0.0	4.63	0.42	
G60	0.19	0.24	5.1	0.14	5.0	4.63	0.0	4.2	0.19	
G61	0.09	0.14	4.77	0.0	4.81	4.39	0.0	3.87	0.09	
G62	0.0	0.0	4.39	0.0	4.29	4.01	0.0	3.68	0.0	
G63	0.0	0.0	4.06	0.0	4.06	3.78	0.0	3.54	0.0	
G64	0.0	0.0	3.82	0.0	3.87	3.49	0.0	3.11	0.0	
G65	0.0	0.0	3.45	0.0	3.63	3.45	0.0	2.97	0.0	
G66	0.0	0.0	3.21	0.0	3.49	3.11	0.0	2.83	0.0	
G67	0.0	0.0	3.11	0.0	3.3	2.88	0.0	2.64	0.0	
G68	0.0	0.0	3.02	0.0	3.02	2.74	0.0	2.41	0.0	
G69	0.0	0.0	2.74	0.0	2.64	2.6	0.0	2.27	0.0	
G70	0.0	0.0	2.55	0.0	2.55	2.5	0.0	2.03	0.0	
G71	0.0	0.0	2.41	0.0	2.5	2.27	0.0	2.08	0.0	
G72	0.0	0.0	2.22	0.0	2.27	2.12	0.0	1.84	0.0	
G73	0.0	0.0	2.08	0.0	2.12	1.94	0.0	1.7	0.0	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

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Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.87 m

Remarks:

Test Time: 2025/7/19 15:02:22

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

[illegible]

Remarks: