

Report No.:

Test Time: 2025/5/8 17:38:32

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP112CT085H48-38°-10W
Lamp Type:
Luminous Width: 58 mm
Luminous Length: 58 mm
Luminous Height: 45 mm

Voltage(V): 219.90 V
Current(A): 0.0520 A
Power(W): 10.51 W
Power Factor: 0.9160
Lamp Luminous Flux: 1034.26

Photometric Results

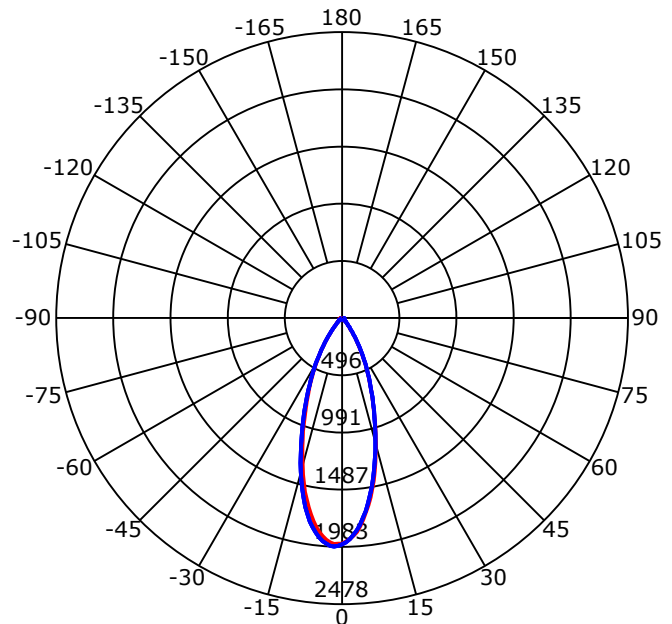
CIE Class: Direct
Luminaire Luminous Flux: 1034.257 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 98.41 lm/W
Beam Angle(50%) C0-180,C90-270: 36.9,37.0
Field Angle(10%) C0-180,C90-270: 70.6,70.9
S/MH C0-180,C90-270: 0.611,0.611

Max. Intensity: 1982.79 cd
Max.Intensity Angle: C=225 Gamma=4
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 1955.23 cd
Effective Luminous Flux: 892.53 lm
ERP(ϕ use)(120deg): 1004.00 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 36.9 deg,37.0 deg

C0-180 — C90-270 —

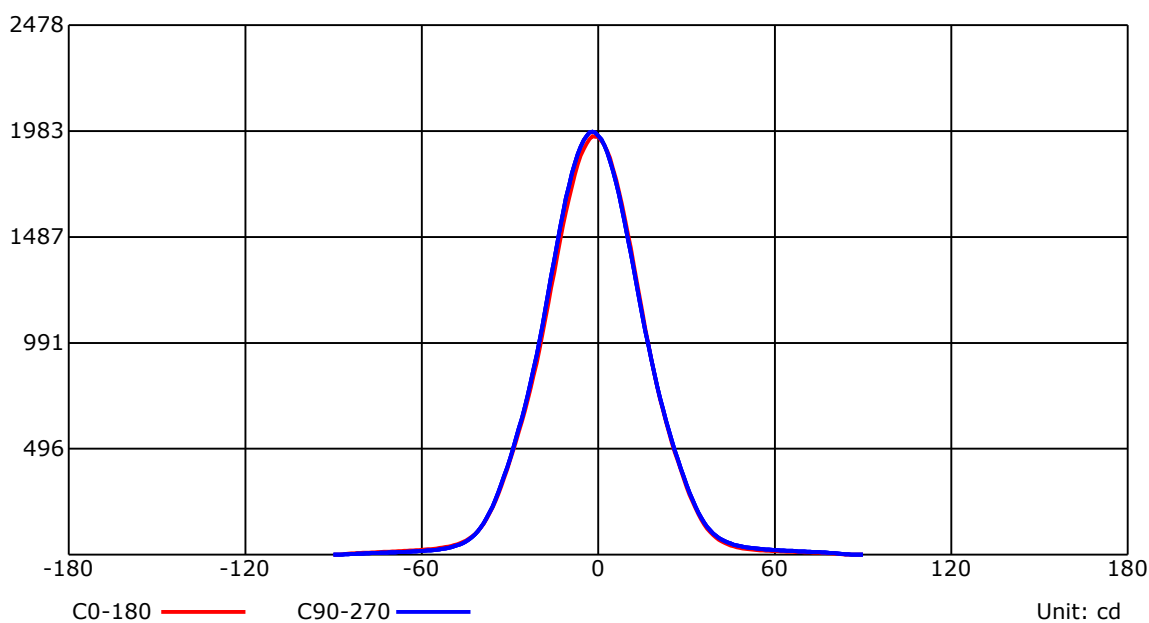
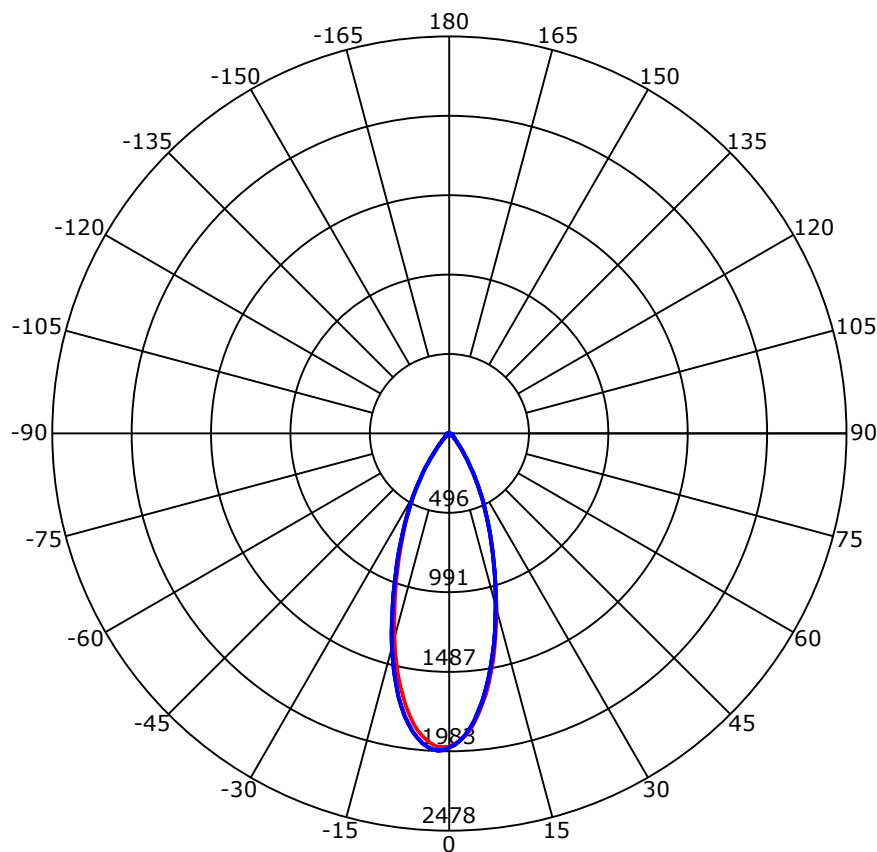
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/5/8 17:38:32

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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Luminous Intensity Distribution Curve



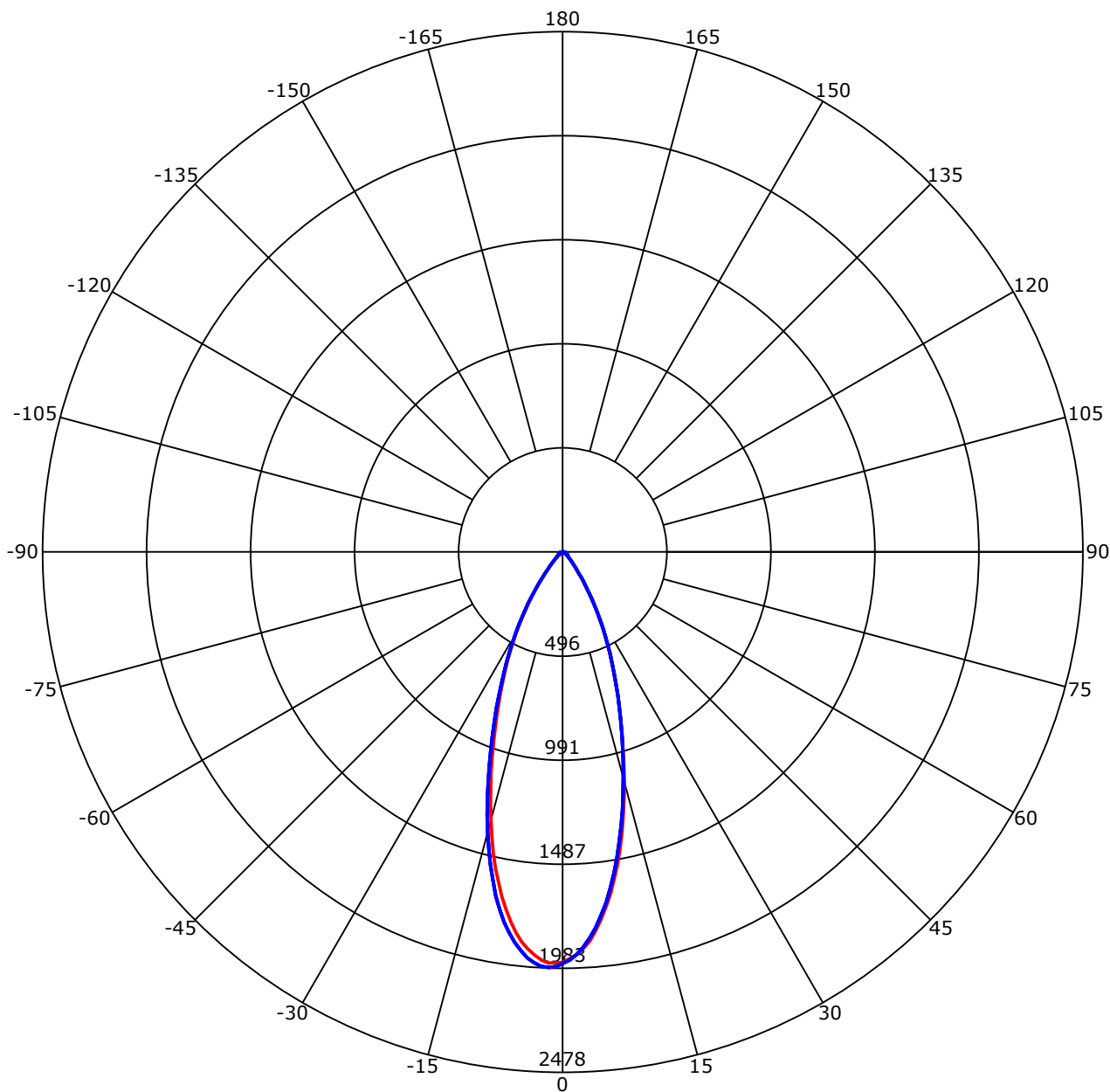
C Range: 0 - 360 Deg
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Test Speed: High
Temperature: 25
Operators: QC01
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G Interval: 1.0 Deg
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Humidity: 60
Test Distance: 6.87 m
Remarks:

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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: 2025/5/8 17:38:32

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

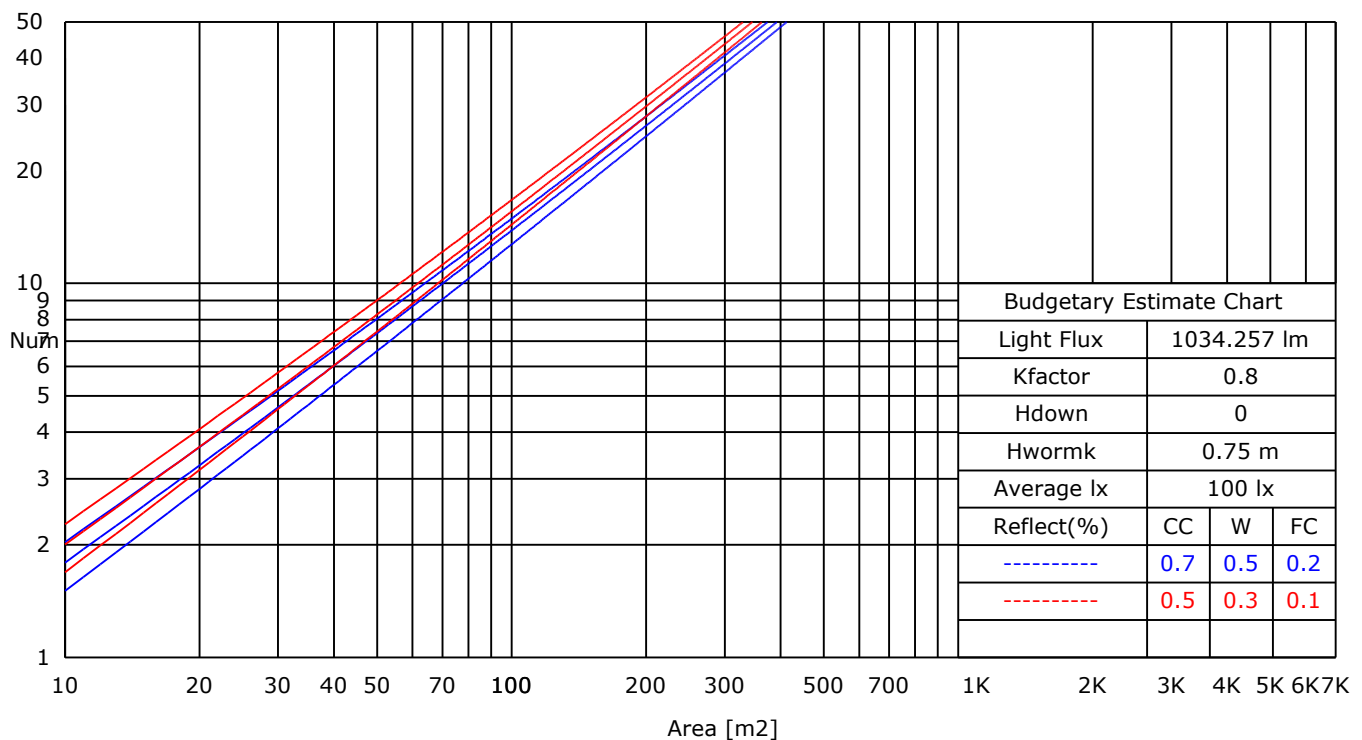
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UTILIZATION FACTORS TABLE

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	1.01	0.99	0.97	1.00	0.97	0.95	0.96	0.94	0.92	0.92	0.89	0.87	0.86	0.83	0.80	0.75
2	0.96	0.94	0.92	0.95	0.93	0.91	0.92	0.89	0.87	0.88	0.85	0.82	0.83	0.80	0.77	0.72
3	0.92	0.90	0.89	0.91	0.88	0.87	0.88	0.85	0.83	0.85	0.82	0.79	0.81	0.77	0.74	0.69
4	0.88	0.86	0.85	0.87	0.85	0.83	0.85	0.82	0.79	0.82	0.78	0.75	0.78	0.74	0.71	0.67
5	0.85	0.83	0.82	0.84	0.82	0.80	0.82	0.79	0.76	0.79	0.75	0.73	0.76	0.72	0.68	0.64
6	0.82	0.80	0.79	0.81	0.79	0.78	0.79	0.76	0.74	0.77	0.73	0.70	0.74	0.69	0.66	0.62
7	0.79	0.78	0.77	0.79	0.76	0.75	0.77	0.74	0.71	0.74	0.71	0.68	0.72	0.67	0.64	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	0.73	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	0.73	0.71	0.71	0.72	0.70	0.69	0.70	0.67	0.66	0.68	0.65	0.62	0.66	0.62	0.59	0.56

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



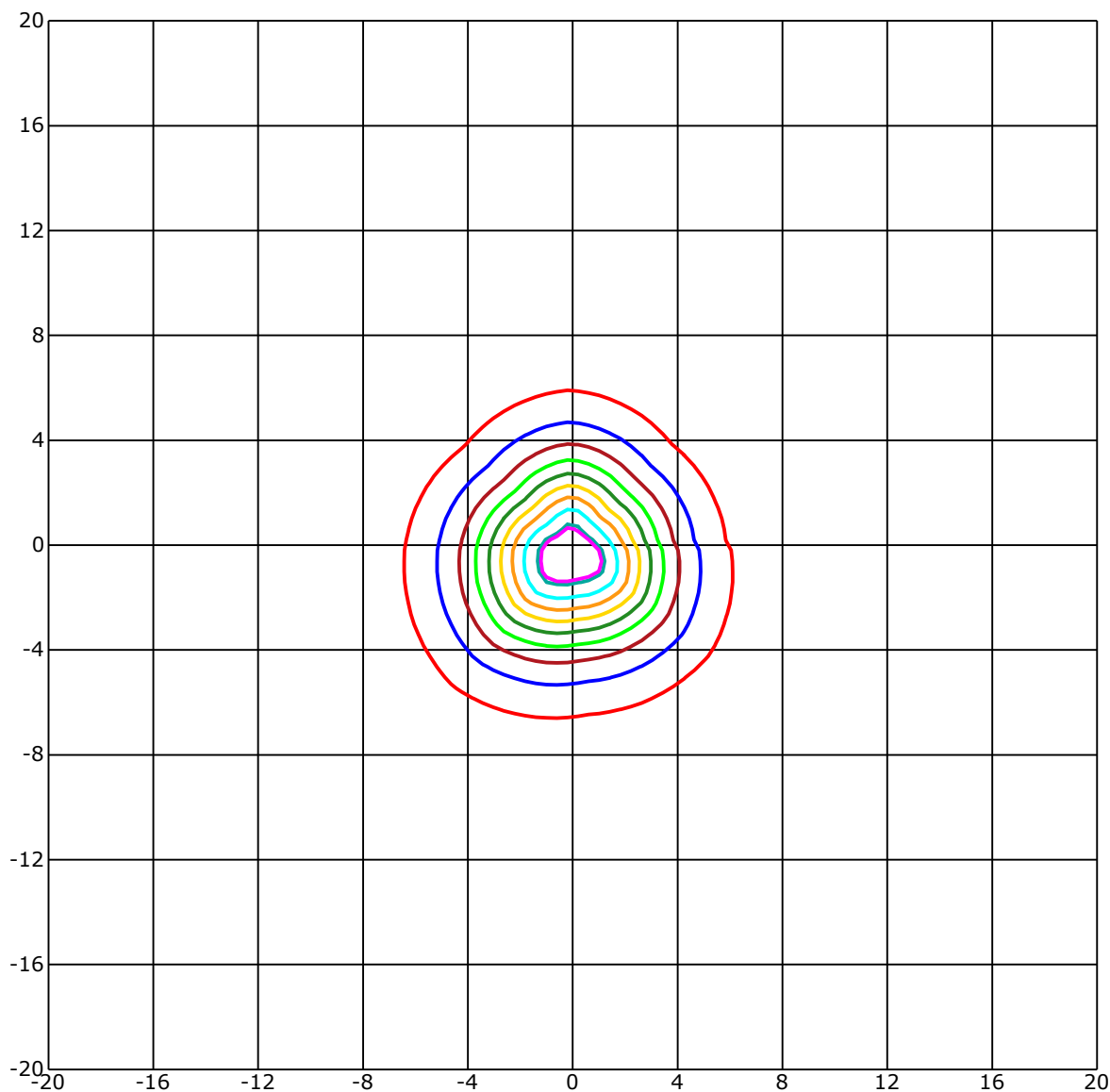
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Temperature: 25
Operators: QC01
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
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ISOLX DIAGRAM



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

18.187(92%Emax)	9.884(50%Emax)
17.792(90%Emax)	7.907(40%Emax)
15.815(80%Emax)	5.931(30%Emax)
13.838(70%Emax)	3.954(20%Emax)
11.861(60%Emax)	1.977(10%Emax)

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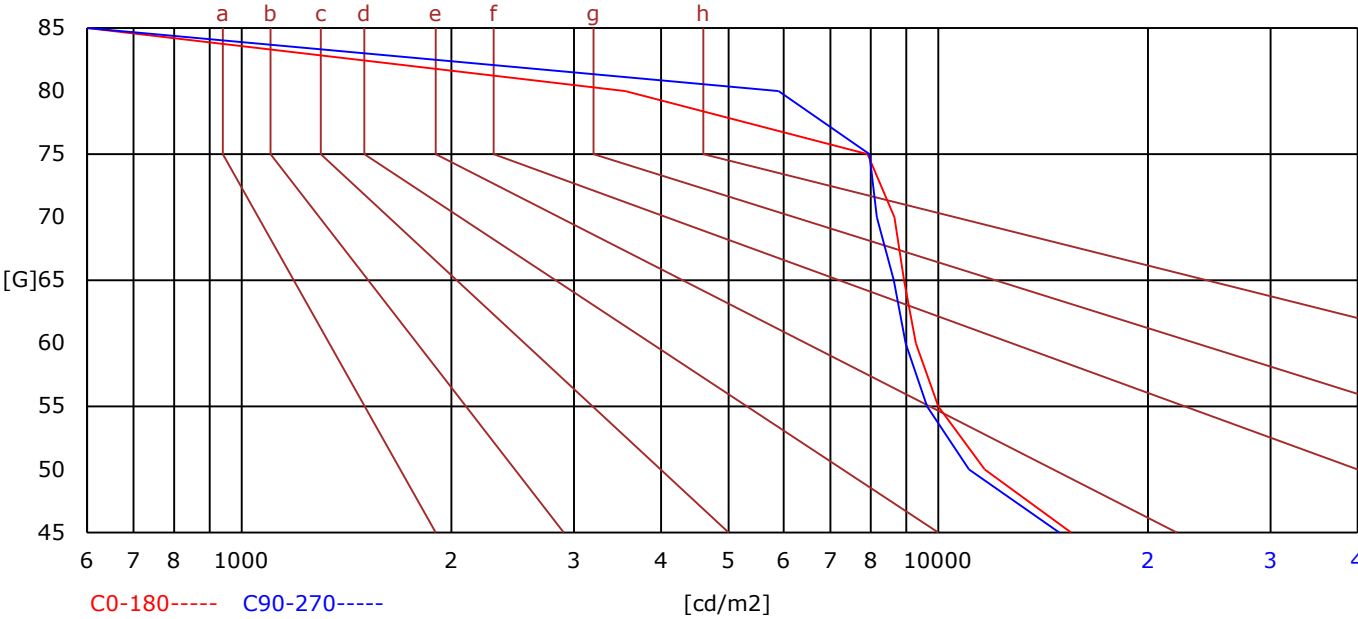
G Range: 0 - 90 Deg
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Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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BRIGHT LIMIT DIAGRAM

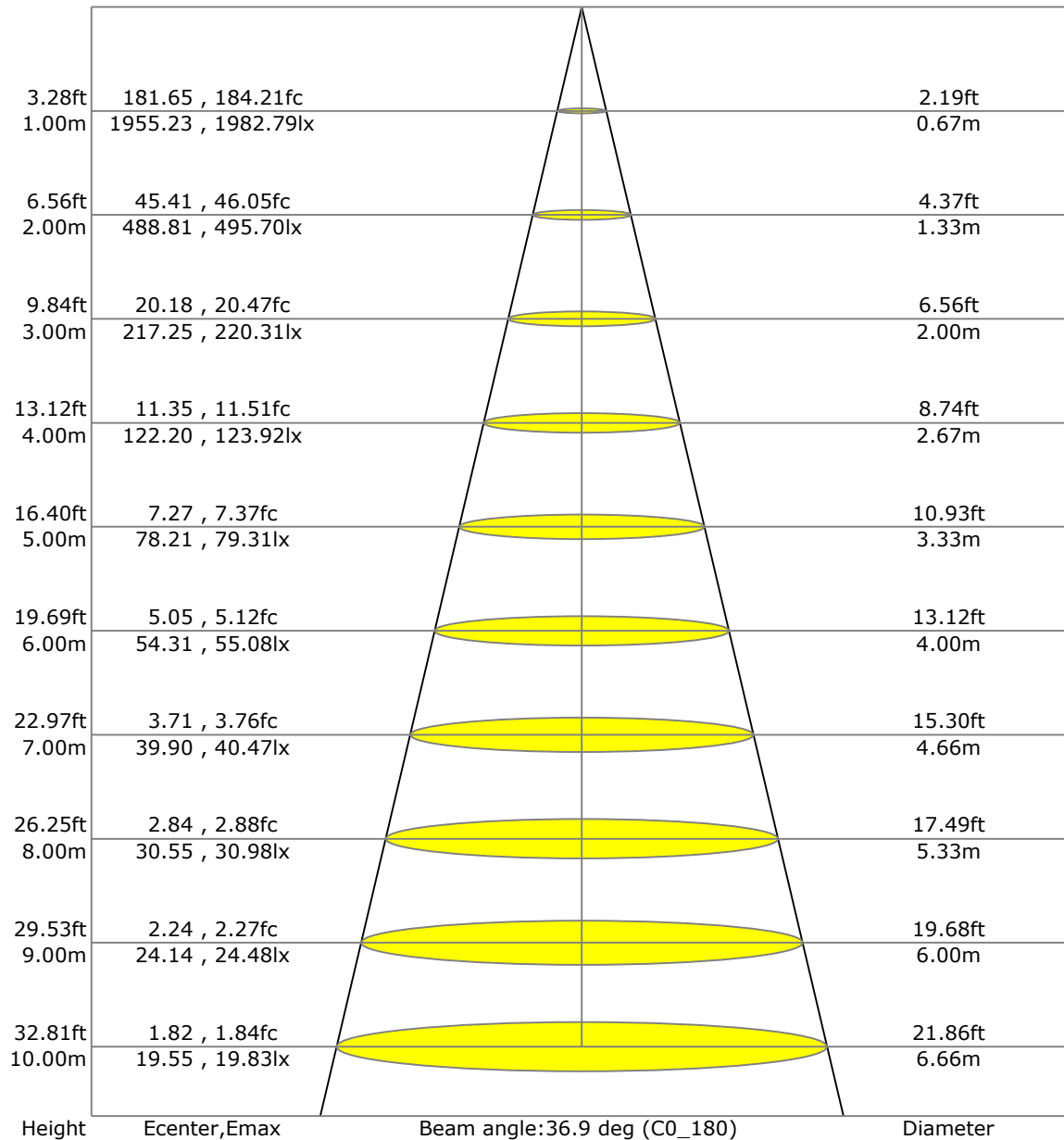
C/G	45	50	55	60	65	70	75	80	85
C0	15516	11656	10004	9288	8930	8655	7914	3555	0
C90	14921	11066	9637	8979	8631	8163	7969	5898	0
Dazzle	Quality	Illuminance	---	---	---	---	---	---	---
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
---	---	a	b	c	d	e	f	g	h



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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
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 G Interval: 1.0 Deg
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 Humidity: 60
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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	11.68	11.73	11.88	11.92	12.16	11.96	12.02	12.16	12.21	12.45
3H	11.77	11.82	11.97	12.01	12.26	12.02	12.08	12.23	12.27	12.52
4H	11.78	11.83	11.99	12.03	12.28	12.03	12.08	12.24	12.28	12.53
6H	11.77	11.83	11.99	12.03	12.28	12.02	12.07	12.23	12.27	12.52
8H	11.76	11.82	11.98	12.02	12.27	12.01	12.06	12.23	12.26	12.52
12H	11.75	11.81	11.97	12.01	12.27	12.00	12.05	12.22	12.26	12.51
4H 2H	12.96	13.01	13.17	13.21	13.46	13.54	13.60	13.75	13.79	14.04
3H	13.17	13.22	13.39	13.43	13.68	13.72	13.77	13.94	13.98	14.24
4H	13.22	13.27	13.45	13.48	13.74	13.75	13.80	13.98	14.02	14.27
6H	13.22	13.27	13.46	13.49	13.76	13.74	13.79	13.98	14.02	14.28
8H	13.21	13.26	13.45	13.49	13.75	13.73	13.78	13.97	14.01	14.27
12H	13.20	13.25	13.44	13.48	13.75	13.72	13.77	13.96	14.00	14.27
8H 4H	13.29	13.34	13.51	13.55	13.80	14.05	14.11	14.27	14.31	14.56
6H	13.60	13.65	13.85	13.89	14.16	14.33	14.38	14.58	14.62	14.89
8H	13.59	13.63	13.85	13.88	14.16	14.31	14.36	14.58	14.61	14.88
12H	13.57	13.61	13.84	13.87	14.15	14.30	14.34	14.57	14.59	14.88
12H 4H	13.59	13.64	13.84	13.87	14.14	14.37	14.42	14.62	14.65	14.92
6H	13.59	13.63	13.85	13.88	14.15	14.36	14.40	14.62	14.65	14.92

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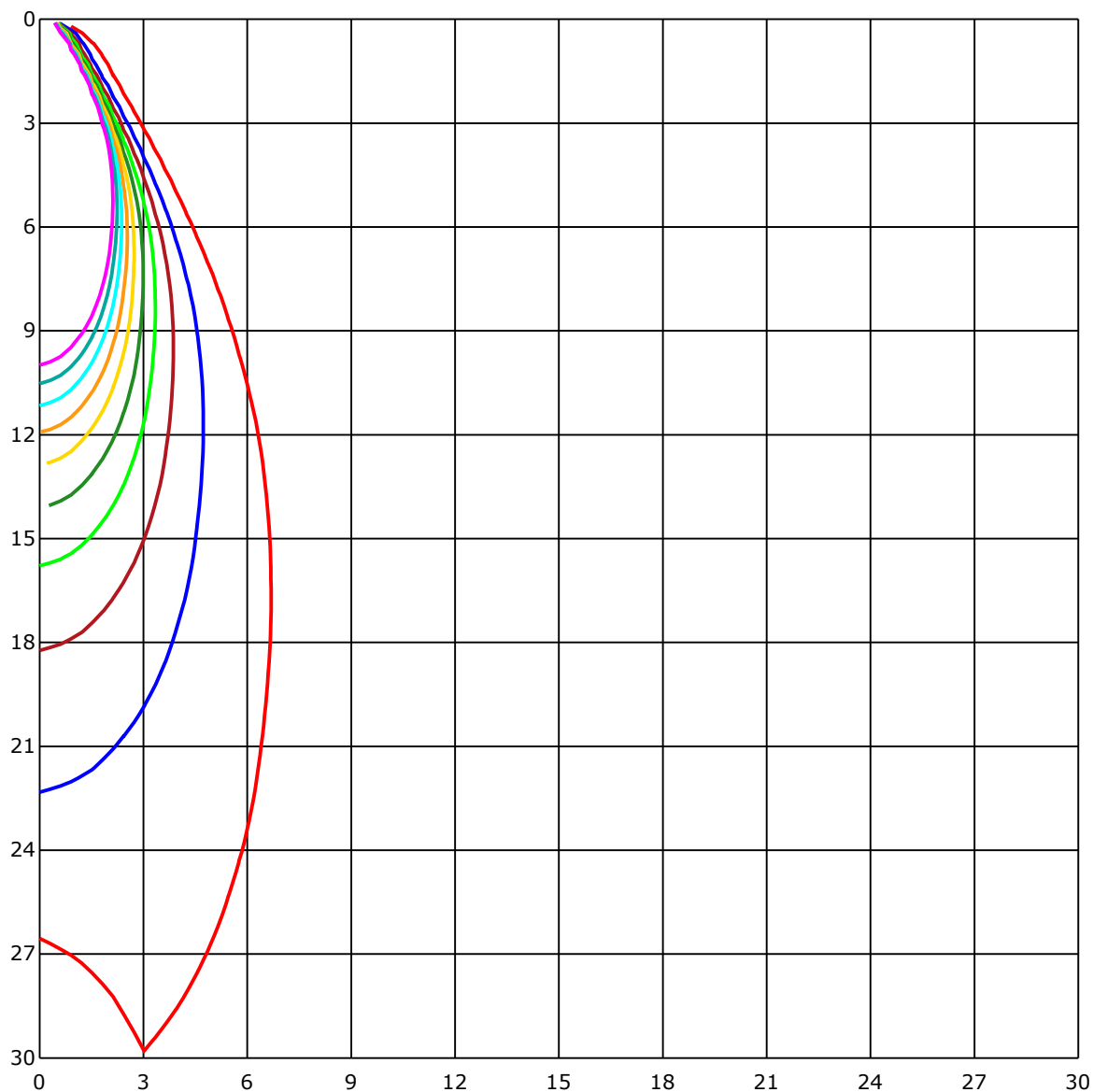
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SPACE ISOLX DIAGRAM



Unit of illumination:lx

19.618	9.809
17.656	7.847
15.695	5.885
13.733	3.924
11.771	1.962

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	1955.23	1913.6	1960.09	1922.33	1955.23	1913.6	1960.09	1922.33	1955.23	
G1	1936.54	1876.03	1943.24	1898.26	1956.36	1942.58	1975.57	1940.83	1936.54	
G2	1918.32	1833.69	1917.09	1861.26	1958.34	1963.82	1980.48	1950.6	1918.32	
G3	1889.39	1780.98	1883.53	1818.45	1945.41	1977.5	1976.46	1960.75	1889.39	
G4	1856.49	1721.18	1841.77	1770.17	1925.07	1982.79	1960.65	1954.85	1856.49	
G5	1808.07	1662.37	1796.88	1719.34	1898.64	1981.14	1940.22	1943.57	1808.07	
G6	1757.24	1596.58	1739.82	1656.23	1867.16	1975.9	1909.16	1922.99	1757.24	
G7	1699.18	1526.49	1684.6	1596.01	1826.47	1951.5	1874.66	1898.59	1699.18	
G8	1641.23	1454.75	1618.71	1524.27	1778.85	1922.99	1831.52	1866.4	1641.23	
G9	1575.06	1383.39	1553.06	1456.54	1724.06	1888.87	1785.98	1821.33	1575.06	
G10	1507.14	1308.25	1482.03	1381.12	1667.75	1852.15	1728.59	1774.13	1507.14	
G11	1435.31	1233.73	1408.97	1307.97	1603.37	1803.11	1669.97	1719.67	1435.31	
G12	1358.52	1161.52	1336.47	1230.94	1540.51	1758.27	1599.22	1657.93	1358.52	
G13	1282.67	1090.39	1262.47	1155.95	1470.51	1693.28	1532.2	1592.19	1282.67	
G14	1209.8	1018.6	1188.98	1081.05	1397.97	1636.13	1456.36	1521.82	1209.8	
G15	1135.7	950.07	1116.82	1008.03	1321.75	1567.65	1382.07	1450.17	1135.7	
G16	1057.82	884.99	1045.79	938.18	1250.1	1501.15	1305.37	1374.56	1057.82	
G17	983.87	821.6	979.24	871.54	1174.26	1429.08	1227.07	1298.01	983.87	
G18	914.2	761.66	912.41	807.02	1104.88	1355.68	1150.61	1219.57	914.2	
G19	848.22	703.66	850.91	749.3	1034.65	1280.12	1073.92	1143.82	848.22	
G20	787.76	649.24	790.03	694.08	964.28	1206.26	1004.21	1068.77	787.76	
G21	729.0	599.02	733.91	643.39	898.39	1132.44	936.2	996.89	729.0	
G22	673.88	549.51	678.5	595.58	837.41	1066.18	869.6	928.36	673.88	
G23	620.92	503.02	627.15	549.94	779.27	996.85	808.53	861.53	620.92	
G24	572.59	458.05	579.67	505.34	724.94	929.92	748.87	798.95	572.59	
G25	523.7	415.62	534.17	462.29	673.88	866.16	693.13	741.84	523.7	
G26	480.32	375.5	489.1	420.43	624.75	806.83	640.56	687.94	480.32	
G27	438.08	336.42	445.4	380.74	575.57	748.87	591.71	638.48	438.08	
G28	396.78	300.6	403.91	341.75	529.27	693.28	543.71	588.83	396.78	
G29	357.14	265.58	365.35	304.0	485.94	639.9	496.51	542.53	357.14	
G30	317.3	233.53	327.45	267.56	443.27	589.91	451.63	498.26	317.3	
G31	281.1	203.65	291.44	234.05	400.04	541.16	408.96	453.75	281.1	
G32	248.26	177.79	256.47	203.84	358.93	495.71	368.37	411.46	248.26	
G33	218.38	154.48	224.94	176.19	319.95	450.07	329.58	370.54	218.38	
G34	189.83	134.79	197.14	150.98	283.7	408.49	293.0	331.37	189.83	
G35	164.15	117.33	172.03	129.32	250.76	366.86	258.78	294.32	164.15	
G36	141.4	102.51	149.8	110.77	219.98	328.02	225.88	257.74	141.4	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	121.91	90.19	130.55	95.67	191.67	291.68	196.34	225.22	121.91	
G38	105.34	79.62	113.79	82.55	166.27	258.59	170.76	195.06	105.34	
G39	91.42	70.8	99.82	72.07	144.19	227.91	147.73	168.96	91.42	
G40	79.72	62.77	88.07	63.01	125.64	199.93	127.2	145.37	79.72	
G41	69.76	55.83	78.68	55.13	109.69	174.68	109.54	125.12	69.76	
G42	61.26	49.84	70.46	48.28	96.09	152.35	94.44	107.99	61.26	
G43	54.13	44.55	63.29	43.19	84.62	133.0	81.89	93.78	54.13	
G44	48.0	40.49	57.16	38.7	74.81	116.86	71.31	81.7	48.0	
G45	42.9	36.91	52.34	35.49	66.78	102.98	62.35	71.98	42.9	
G46	38.8	33.93	47.43	32.33	60.03	91.37	55.03	64.14	38.8	
G47	35.02	31.06	43.61	29.88	54.37	81.27	48.66	57.82	35.02	
G48	31.95	28.84	40.26	27.47	48.99	72.54	43.14	52.01	31.95	
G49	29.45	26.9	37.62	25.68	44.79	65.32	38.7	46.77	29.45	
G50	27.37	25.2	35.11	23.93	41.3	59.18	34.93	42.67	27.37	
G51	25.68	23.69	33.13	22.7	38.09	53.62	31.72	39.08	25.68	
G52	24.16	22.37	31.29	21.57	35.68	48.85	28.84	36.29	24.16	
G53	22.75	21.29	29.73	20.53	33.37	44.51	26.67	34.03	22.75	
G54	21.52	20.25	28.27	19.49	31.39	41.25	24.64	32.05	21.52	
G55	20.63	19.3	27.14	18.6	29.45	37.9	23.17	30.35	20.63	
G56	19.68	18.41	25.86	17.89	28.03	35.26	21.8	28.98	19.68	
G57	18.88	17.75	24.87	17.09	26.43	32.94	20.48	27.56	18.88	
G58	18.22	17.04	23.69	16.47	25.25	30.87	19.3	26.52	18.22	
G59	17.6	16.24	22.84	15.81	24.02	29.07	18.27	25.39	17.6	
G60	16.99	15.62	21.9	15.1	22.98	27.56	17.46	24.35	16.99	
G61	16.42	15.15	21.14	14.44	22.04	26.15	16.57	23.46	16.42	
G62	15.67	14.49	20.29	13.78	21.05	24.83	15.72	22.61	15.67	
G63	15.1	13.92	19.68	13.22	20.11	23.74	15.2	21.8	15.1	
G64	14.63	13.26	18.88	12.74	19.3	22.65	14.54	20.86	14.63	
G65	13.97	12.7	18.31	12.27	18.6	21.57	13.83	20.11	13.97	
G66	13.59	12.22	17.65	11.66	17.84	20.48	13.12	19.4	13.59	
G67	12.93	11.66	16.94	11.0	16.99	19.68	12.51	18.74	12.93	
G68	12.55	11.14	16.05	10.52	16.52	18.78	11.94	18.12	12.55	
G69	11.99	10.38	15.53	10.01	15.67	18.22	11.42	17.56	11.99	
G70	11.56	9.96	14.82	9.39	15.15	17.46	10.86	16.8	11.56	
G71	10.9	9.2	14.21	8.97	14.54	16.42	10.48	16.14	10.9	
G72	10.43	8.68	13.45	8.4	13.78	15.81	9.91	15.48	10.43	
G73	10.01	8.12	12.79	7.98	13.26	14.96	9.49	15.15	10.01	

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Humidity: 60
Test Distance: 6.87 m
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

[illegible]

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/5/8 17:38:32

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