

Report No.:

Test Time: 2024/10/26 16:22:52

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP151CT095H88-60°-15W
Lamp Type:
Luminous Width: 80 mm
Luminous Length: 80 mm
Luminous Height: 70 mm

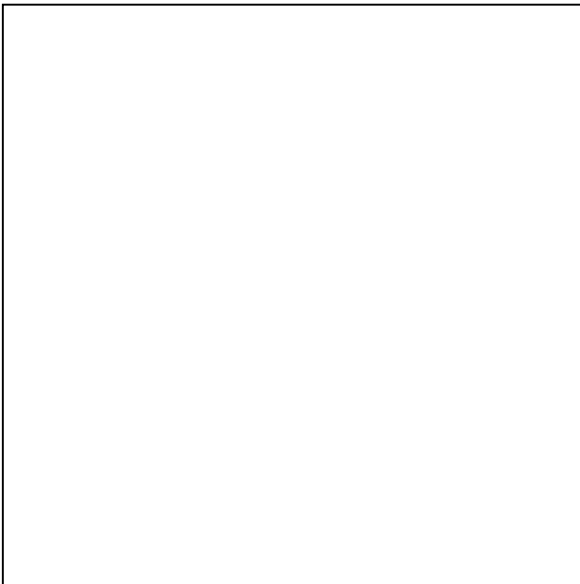
Voltage(V): 219.90 V
Current(A): 0.0710 A
Power(W): 14.91 W
Power Factor: 0.9480
Lamp Luminous Flux: 1451.83

Photometric Results

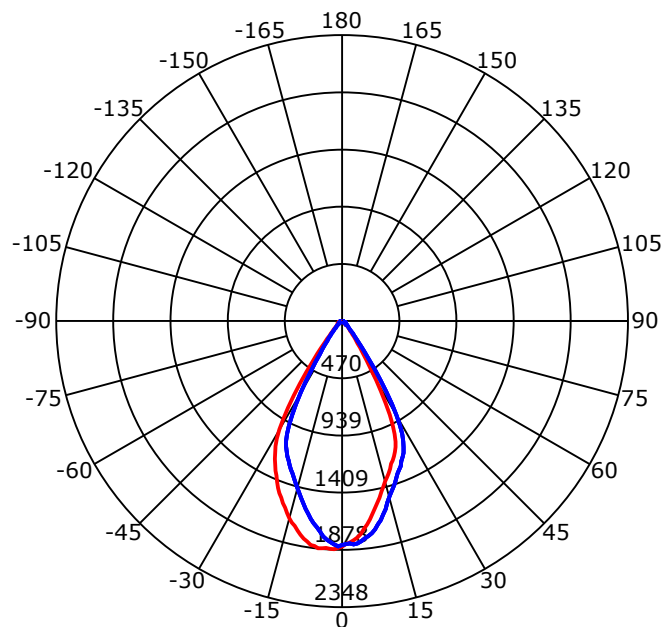
CIE Class: Direct
Luminaire Luminous Flux: 1451.831 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 97.37 lm/W
Beam Angle(50%) C0-180,C90-270: 57.1,57.1
Field Angle(10%) C0-180,C90-270: 76.1,76.6
S/MH C0-180,C90-270: 0.890,0.849

Max. Intensity: 1878.46 cd
Max.Intensity Angle: C=135 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 1852.35 cd
Effective Luminous Flux: 1311.78 lm
ERP(ϕ use)(120deg): 1424.98 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 57.1 deg,57.1 deg

C0-180 — C90-270 —

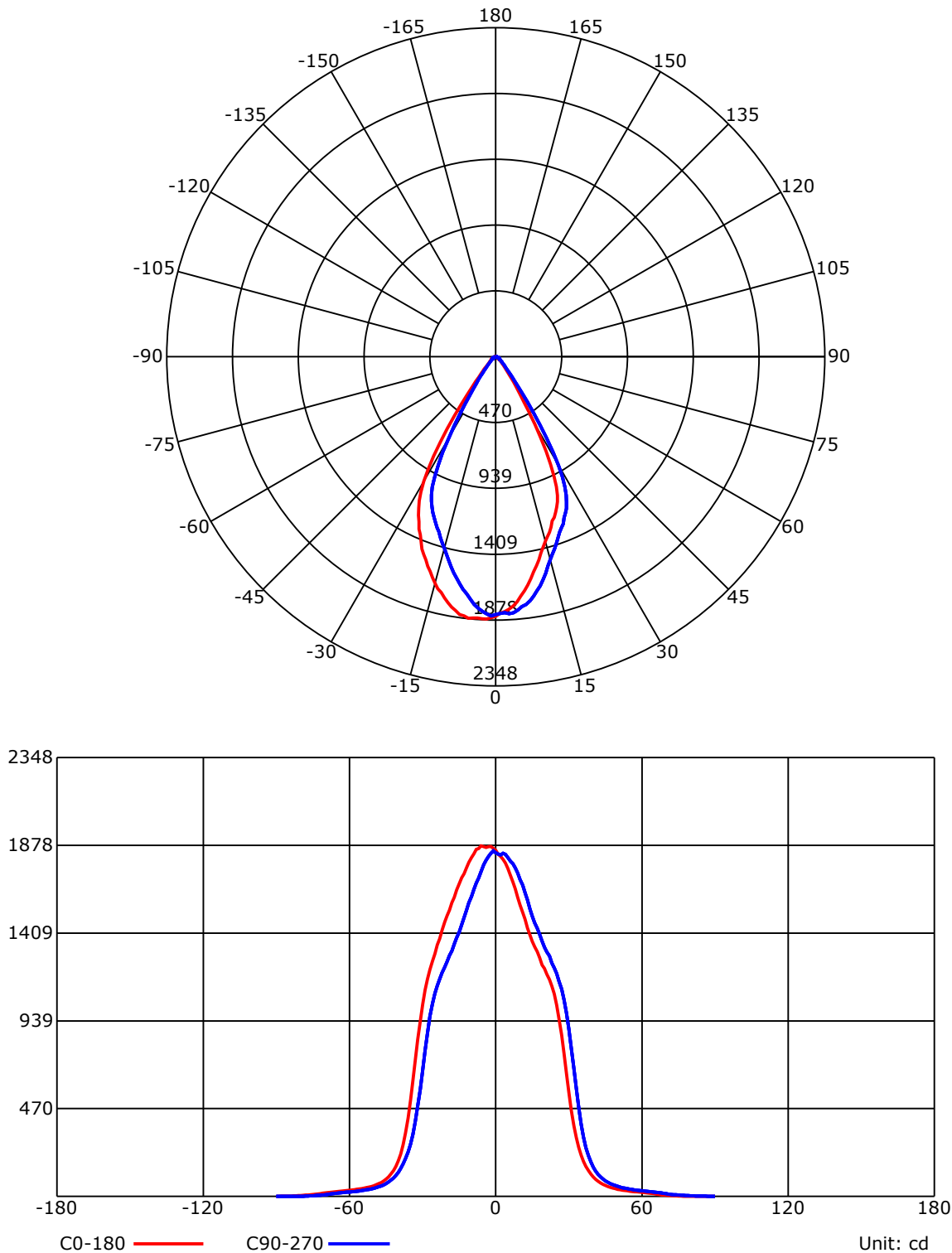
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/10/26 16:22:52

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

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Luminous Intensity Distribution Curve



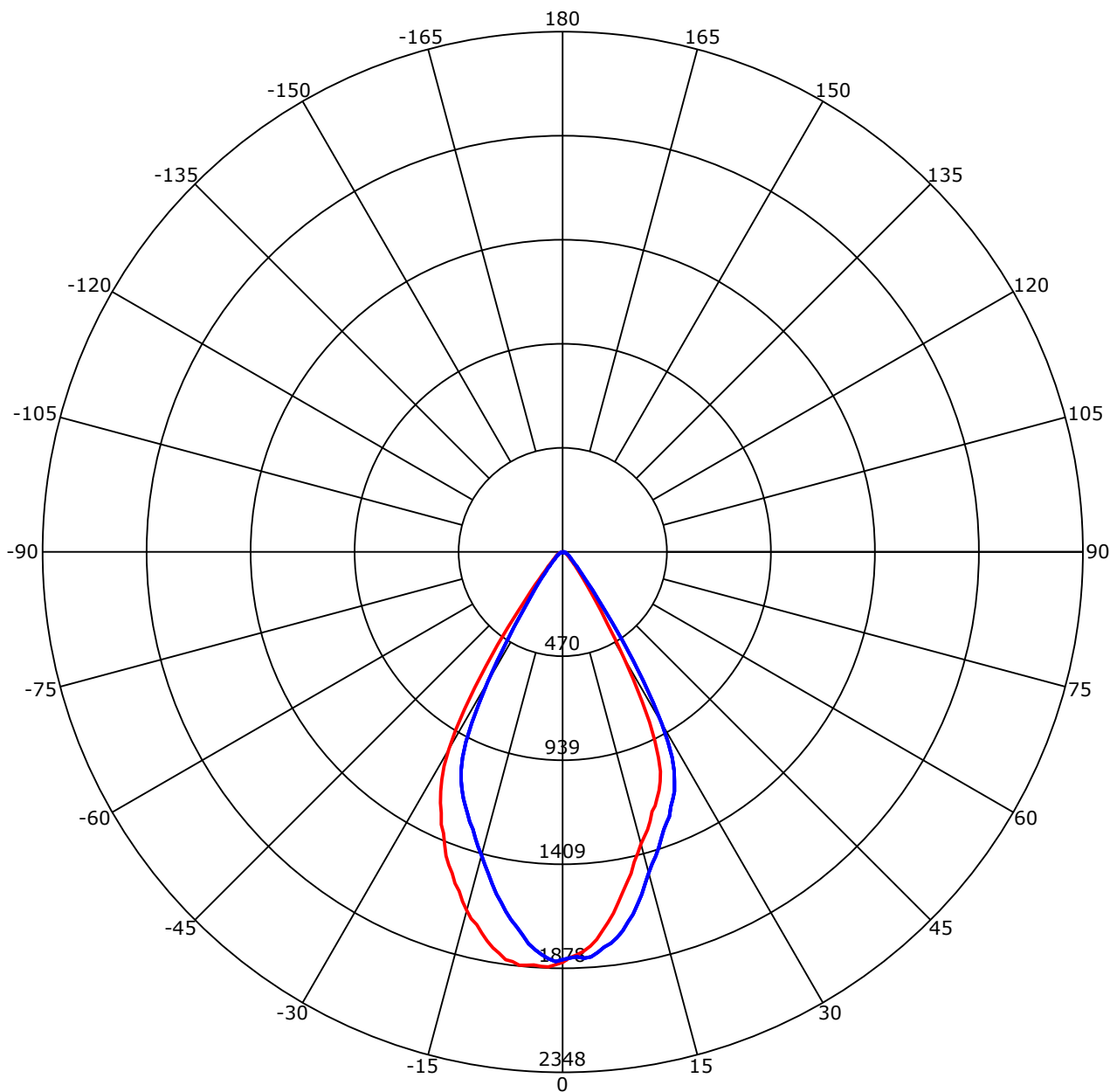
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

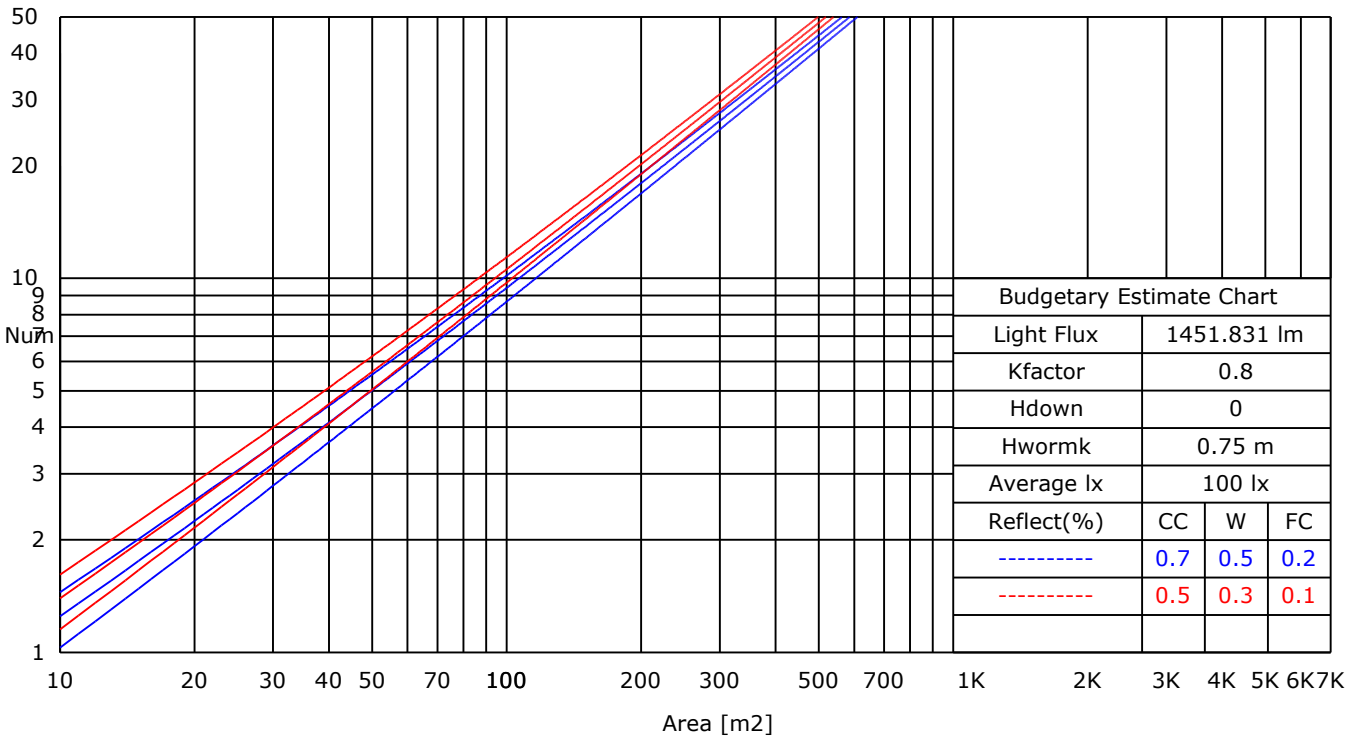
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Remarks:

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	1.05	1.04	1.02	1.04	1.02	1.01	1.00	0.98	0.96	0.96	0.93	0.91	0.89	0.87	0.85	0.80
2	1.01	0.99	0.98	0.99	0.97	0.96	0.96	0.94	0.92	0.92	0.89	0.87	0.86	0.84	0.81	0.76
3	0.96	0.95	0.93	0.95	0.93	0.91	0.92	0.90	0.87	0.88	0.85	0.83	0.84	0.80	0.78	0.73
4	0.92	0.91	0.90	0.91	0.89	0.88	0.89	0.86	0.84	0.85	0.82	0.79	0.81	0.78	0.74	0.70
5	0.89	0.87	0.86	0.88	0.86	0.84	0.85	0.82	0.80	0.82	0.79	0.76	0.79	0.75	0.72	0.68
6	0.86	0.84	0.83	0.85	0.83	0.81	0.82	0.79	0.77	0.80	0.76	0.73	0.76	0.72	0.69	0.65
7	0.83	0.81	0.80	0.82	0.80	0.79	0.80	0.77	0.75	0.77	0.73	0.71	0.74	0.70	0.67	0.63
8	0.80	0.79	0.78	0.79	0.77	0.76	0.77	0.74	0.72	0.75	0.71	0.68	0.72	0.68	0.65	0.61
9	0.77	0.76	0.75	0.77	0.75	0.74	0.75	0.72	0.70	0.72	0.69	0.66	0.70	0.66	0.63	0.59
10	0.75	0.74	0.73	0.74	0.73	0.71	0.72	0.70	0.68	0.70	0.67	0.64	0.68	0.64	0.61	0.58

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



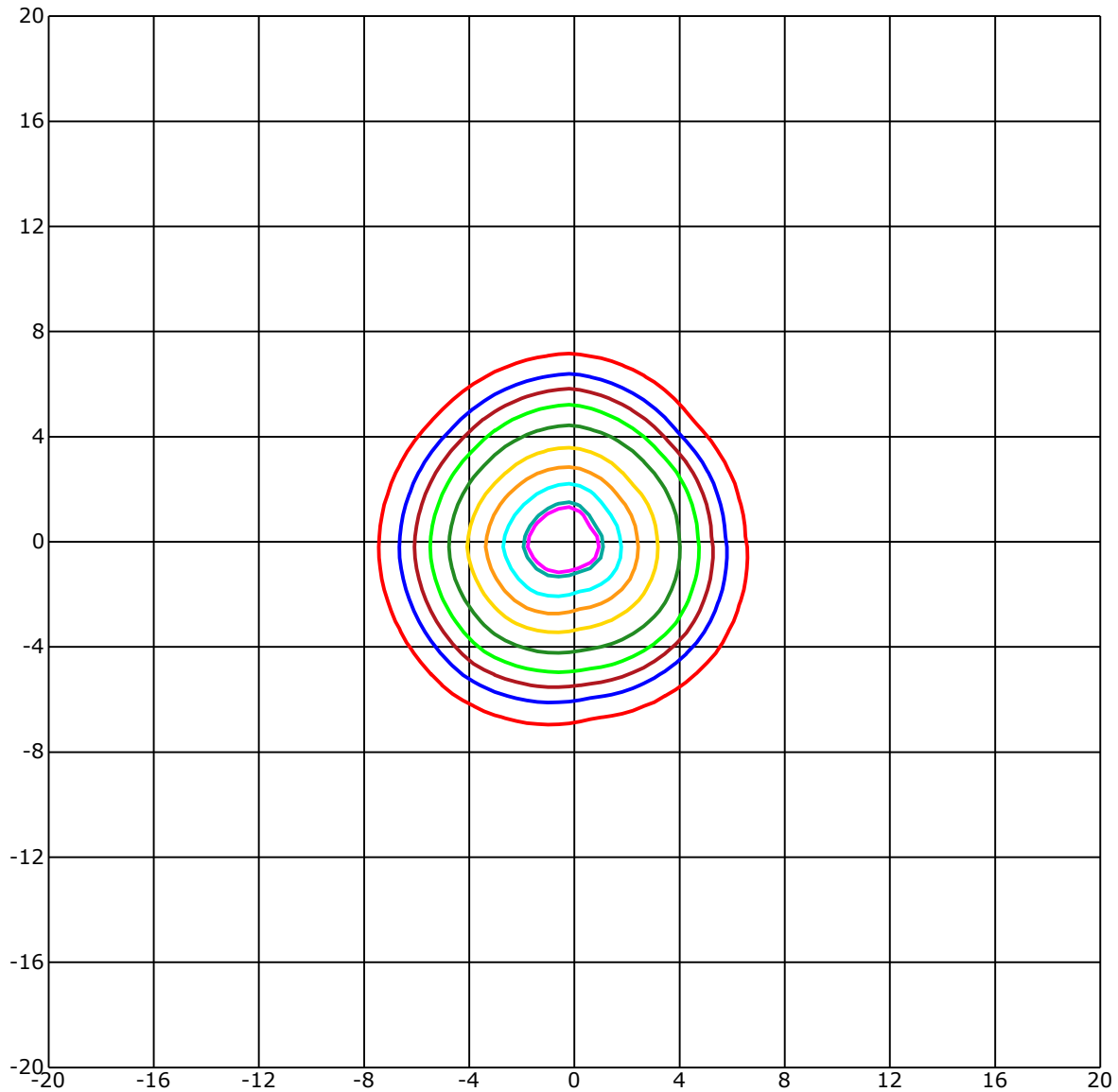
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G Range: 0 - 90 Deg
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ISOLX DIAGRAM



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

17.25(92%Emax)	9.375(50%Emax)
16.875(90%Emax)	7.5(40%Emax)
15.0(80%Emax)	5.625(30%Emax)
13.125(70%Emax)	3.75(20%Emax)
11.25(60%Emax)	1.875(10%Emax)

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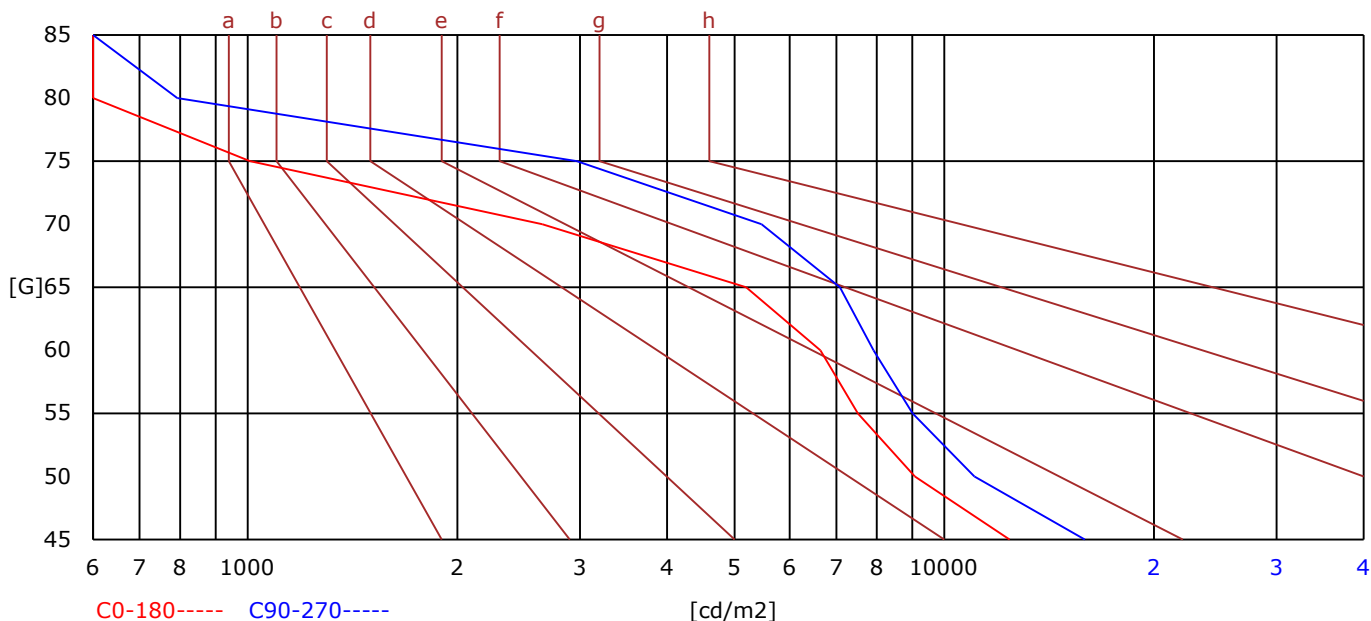
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	12410	9075	7517	6638	5195	2648	1008	0	0
C90	15915	11048	9008	7913	7081	5466	2968	793	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



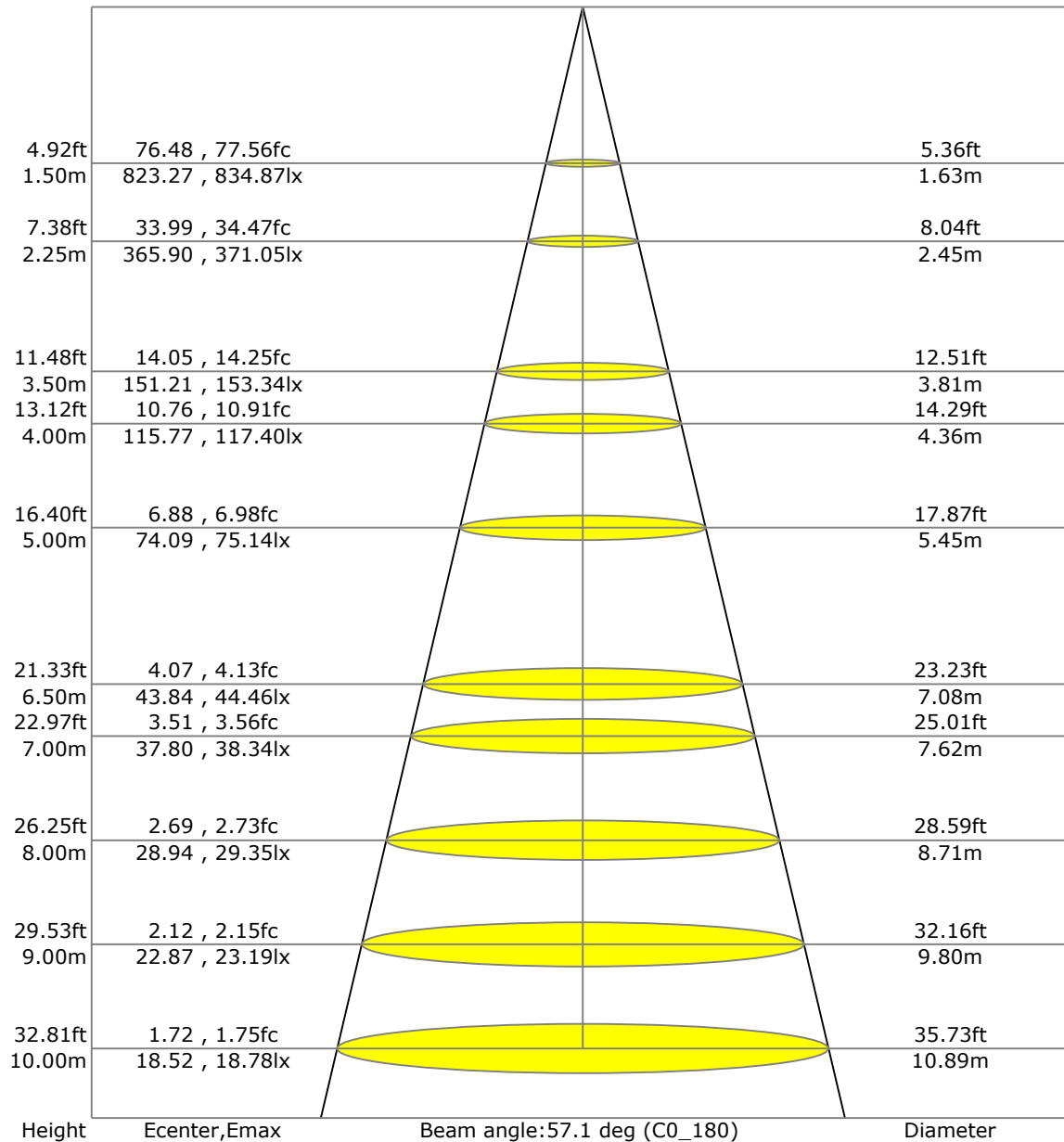
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Test Distance: 6.81 m
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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2024/10/26 16:22:52

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.81 m

Remarks:

UGR(Unified Glare Rating) TABLE

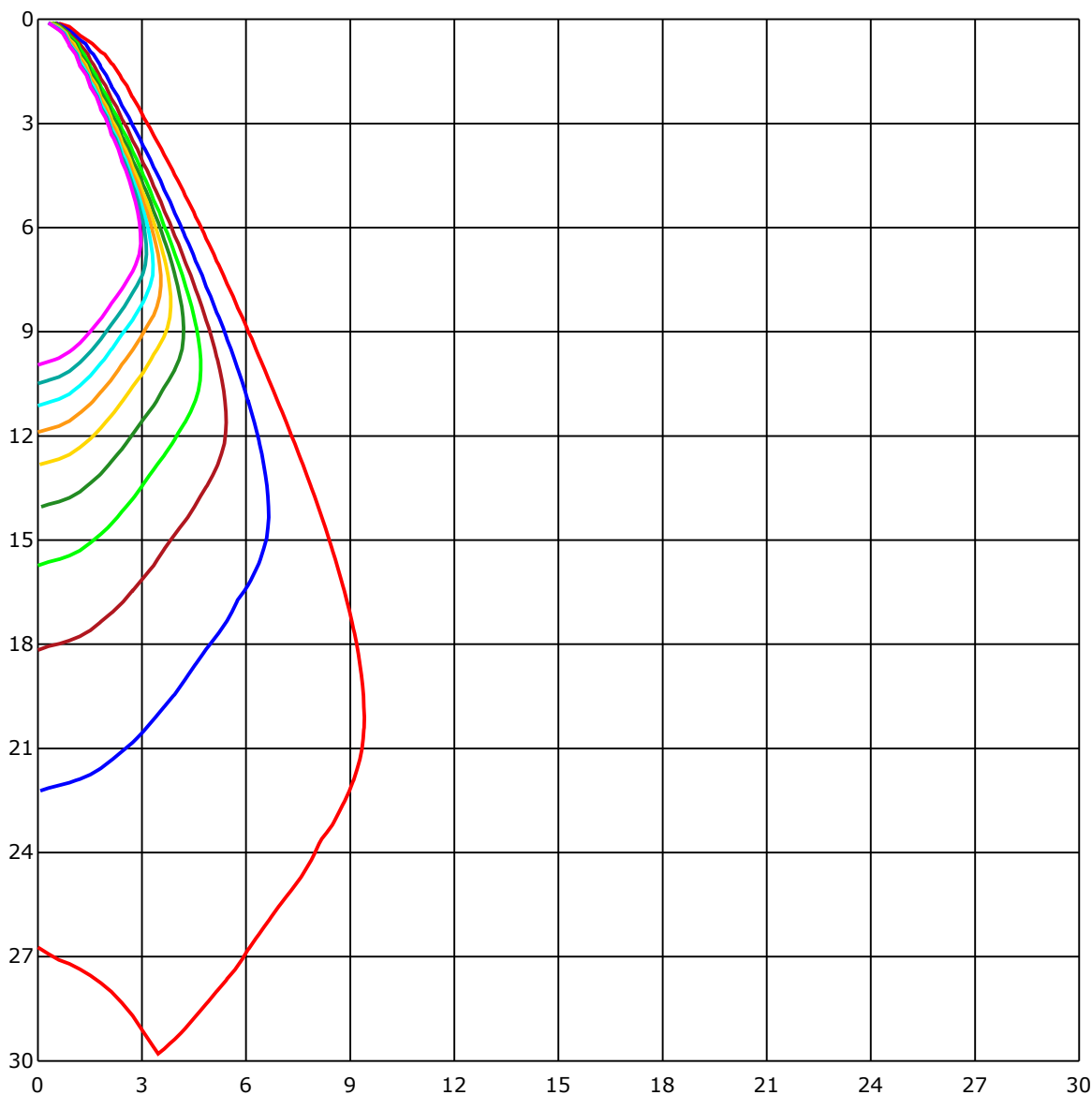
RHOCC	70	70	50	50	30	70	70	50	50	30
RHOW	50	30	50	30	30	50	30	50	30	30
RHOF	20	20	20	20	20	20	20	20	20	20
Room Size X Y	Viewed Endwise					Viewed Crosswise				
2H 2H	10.42	10.47	10.62	10.66	10.90	10.72	10.77	10.92	10.96	11.20
3H	10.43	10.48	10.63	10.67	10.92	10.72	10.77	10.92	10.96	11.21
4H	10.42	10.47	10.63	10.66	10.91	10.70	10.75	10.91	10.95	11.20
6H	10.40	10.45	10.61	10.65	10.90	10.68	10.73	10.90	10.93	11.19
8H	10.39	10.44	10.61	10.64	10.90	10.67	10.72	10.89	10.93	11.18
12H	10.38	10.43	10.60	10.64	10.89	10.66	10.71	10.89	10.92	11.17
4H 2H	10.70	10.75	10.91	10.94	11.19	11.33	11.38	11.54	11.57	11.82
3H	10.71	10.76	10.93	10.97	11.22	11.32	11.37	11.54	11.58	11.83
4H	10.69	10.74	10.92	10.96	11.21	11.30	11.35	11.53	11.56	11.82
6H	10.67	10.72	10.91	10.94	11.20	11.28	11.33	11.52	11.55	11.81
8H	10.66	10.71	10.90	10.93	11.20	11.27	11.31	11.51	11.54	11.80
12H	10.64	10.69	10.89	10.92	11.19	11.25	11.30	11.50	11.53	11.80
8H 4H	10.67	10.72	10.89	10.93	11.18	11.36	11.41	11.58	11.62	11.87
6H	10.63	10.67	10.88	10.91	11.19	11.31	11.35	11.56	11.59	11.86
8H	10.62	10.66	10.88	10.90	11.18	11.29	11.33	11.55	11.58	11.86
12H	10.60	10.64	10.87	10.89	11.17	11.28	11.31	11.54	11.57	11.85
12H 4H	10.64	10.69	10.89	10.92	11.19	11.34	11.38	11.58	11.61	11.88
6H	10.62	10.66	10.88	10.90	11.18	11.31	11.35	11.57	11.59	11.87

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SPACE ISOLX DIAGRAM



Unit of illumination:lx



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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	1852.35	1842.75	1839.42	1856.06	1852.35	1842.75	1839.42	1856.06	1852.35	
G1	1830.23	1827.03	1831.67	1870.53	1862.46	1845.68	1848.55	1844.29	1830.23	
G2	1819.24	1805.38	1827.5	1878.46	1873.5	1845.12	1835.98	1838.81	1819.24	
G3	1803.29	1785.2	1835.33	1878.05	1871.97	1838.67	1819.1	1825.92	1803.29	
G4	1783.07	1758.67	1830.84	1857.18	1867.89	1840.62	1798.65	1791.23	1783.07	
G5	1755.43	1730.15	1813.91	1844.15	1871.32	1837.75	1774.3	1771.94	1755.43	
G6	1717.03	1705.81	1792.81	1825.5	1875.36	1822.35	1737.9	1744.67	1717.03	
G7	1682.34	1672.51	1779.92	1807.23	1861.91	1807.18	1704.46	1710.91	1682.34	
G8	1645.8	1634.02	1758.07	1789.93	1857.69	1782.19	1676.31	1680.44	1645.8	
G9	1600.95	1591.35	1730.57	1769.16	1832.64	1763.73	1642.46	1650.66	1600.95	
G10	1558.61	1552.3	1695.05	1737.48	1813.49	1744.9	1605.08	1612.82	1558.61	
G11	1519.79	1517.43	1665.09	1701.31	1787.06	1727.93	1571.41	1578.23	1519.79	
G12	1482.51	1480.93	1624.37	1663.51	1757.89	1702.47	1531.15	1534.03	1482.51	
G13	1435.9	1444.94	1585.41	1629.15	1726.3	1668.01	1491.83	1494.24	1435.9	
G14	1400.19	1402.88	1539.04	1592.65	1705.76	1632.11	1454.54	1449.9	1400.19	
G15	1364.57	1365.82	1499.48	1562.92	1674.18	1598.03	1416.37	1418.6	1364.57	
G16	1336.65	1343.93	1464.46	1527.86	1640.32	1567.37	1384.28	1379.74	1336.65	
G17	1309.11	1300.8	1434.46	1489.69	1600.35	1529.25	1350.38	1346.02	1309.11	
G18	1276.97	1261.85	1401.25	1455.33	1572.24	1497.62	1314.02	1315.32	1276.97	
G19	1237.73	1245.76	1366.01	1421.57	1532.45	1457.46	1288.75	1295.15	1237.73	
G20	1219.27	1211.11	1333.31	1376.35	1502.77	1421.89	1256.89	1262.31	1219.27	
G21	1189.08	1188.02	1307.76	1337.63	1468.5	1393.23	1227.16	1237.59	1189.08	
G22	1159.73	1165.62	1286.47	1310.13	1423.61	1356.97	1197.76	1206.75	1159.73	
G23	1124.62	1123.37	1248.45	1276.04	1378.62	1317.68	1163.58	1179.44	1124.62	
G24	1083.02	1071.8	1222.2	1237.55	1346.72	1287.31	1127.91	1144.42	1083.02	
G25	1023.71	1022.27	1193.21	1200.4	1298.21	1249.09	1086.59	1106.53	1023.71	
G26	948.85	947.42	1150.92	1150.96	1259.48	1220.85	1032.56	1059.79	948.85	
G27	862.5	857.82	1108.44	1099.53	1212.36	1181.52	962.95	989.43	862.5	
G28	762.75	761.36	1051.21	1040.54	1162.88	1130.56	874.1	907.77	762.75	
G29	657.94	652.74	981.04	965.41	1104.68	1067.58	780.74	810.65	657.94	
G30	557.53	547.1	895.57	877.06	1027.6	991.85	676.3	703.71	557.53	
G31	461.77	451.19	795.58	774.25	939.26	904.61	573.77	603.4	461.77	
G32	378.29	368.5	684.0	666.1	837.37	801.8	482.64	504.2	378.29	
G33	315.26	300.38	579.89	561.2	728.66	694.67	401.11	420.68	315.26	
G34	263.0	248.67	478.74	461.02	619.82	590.51	330.66	350.74	263.0	
G35	221.59	208.46	389.93	374.9	512.97	492.42	279.23	297.32	221.59	
G36	188.33	175.63	317.72	300.84	419.61	403.43	237.31	252.43	188.33	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	160.46	149.05	261.0	244.63	338.92	331.59	201.83	216.53	160.46	
G38	138.29	127.91	217.6	201.13	275.66	278.4	172.89	186.2	138.29	
G39	119.93	111.77	184.35	167.84	226.64	233.83	149.42	161.34	119.93	
G40	104.72	98.22	156.75	140.52	190.98	198.86	128.65	140.71	104.72	
G41	91.78	86.31	135.51	119.98	161.02	170.39	112.09	123.55	91.78	
G42	81.25	76.75	118.35	103.56	137.64	146.59	98.13	108.98	81.25	
G43	71.98	68.54	104.58	90.99	119.51	127.16	86.86	96.93	71.98	
G44	64.37	61.87	92.94	80.6	104.72	111.07	77.08	85.84	64.37	
G45	58.16	56.16	83.29	72.02	92.84	98.04	69.05	77.45	58.16	
G46	53.05	51.38	75.18	64.46	83.06	87.09	61.73	70.12	53.05	
G47	48.28	46.75	68.54	58.53	74.71	78.05	55.93	63.72	48.28	
G48	44.38	43.27	62.93	53.52	68.08	70.49	50.83	58.34	44.38	
G49	41.09	40.16	58.25	49.67	62.42	64.09	46.56	54.12	41.09	
G50	37.98	37.33	53.89	45.45	57.74	58.99	42.94	50.5	37.98	
G51	35.66	34.83	50.23	42.48	53.61	54.63	39.88	47.07	35.66	
G52	33.53	32.7	46.52	39.79	50.6	50.83	37.47	44.01	33.53	
G53	31.35	30.93	43.96	37.56	47.21	47.3	35.2	41.46	31.35	
G54	29.54	29.12	41.14	35.01	44.75	44.57	32.97	38.96	29.54	
G55	27.96	27.59	38.82	33.07	42.11	42.3	31.03	36.92	27.96	
G56	26.43	26.16	36.64	31.12	40.39	40.02	29.4	34.87	26.43	
G57	25.04	24.9	34.97	29.5	38.03	38.17	28.06	33.16	25.04	
G58	23.84	23.61	33.11	28.15	36.22	36.27	26.48	31.44	23.84	
G59	22.54	22.49	31.72	26.62	34.41	34.55	25.18	29.91	22.54	
G60	21.38	21.24	30.05	25.32	32.79	32.83	23.61	28.29	21.38	
G61	20.08	19.94	28.57	24.07	31.26	31.26	22.45	26.76	20.08	
G62	18.83	18.83	27.22	22.63	29.68	29.63	21.05	25.32	18.83	
G63	17.62	17.3	25.97	21.47	28.2	28.15	19.9	24.12	17.62	
G64	16.0	15.81	24.39	20.27	26.94	26.9	18.64	22.35	16.0	
G65	14.24	14.05	22.96	19.15	25.69	25.46	17.21	20.92	14.24	
G66	12.38	12.24	21.38	17.81	24.25	24.3	15.72	19.2	12.38	
G67	10.02	10.11	20.08	16.32	22.86	22.82	14.14	17.34	10.02	
G68	7.98	8.02	18.36	15.03	21.52	21.47	12.57	15.16	7.98	
G69	6.96	6.77	16.46	13.63	20.03	19.94	10.62	13.03	6.96	
G70	6.08	5.8	14.24	11.97	18.41	18.41	8.53	11.32	6.08	
G71	5.15	4.92	11.97	9.83	16.74	16.6	7.37	10.25	5.15	
G72	4.22	4.03	10.76	7.84	14.7	14.47	6.35	9.09	4.22	
G73	3.43	3.11	9.51	6.77	12.48	12.34	5.38	7.98	3.43	

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