

Report No.:

Test Time: 2024/10/27 14:41:12

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP151CT095H67-45°-10W
Lamp Type:
Luminous Width: 80 mm
Luminous Length: 80 mm
Luminous Height: 63 mm

Voltage(V): 219.40 V
Current(A): 0.0540 A
Power(W): 10.74 W
Power Factor: 0.8950
Lamp Luminous Flux: 1109.40

Photometric Results

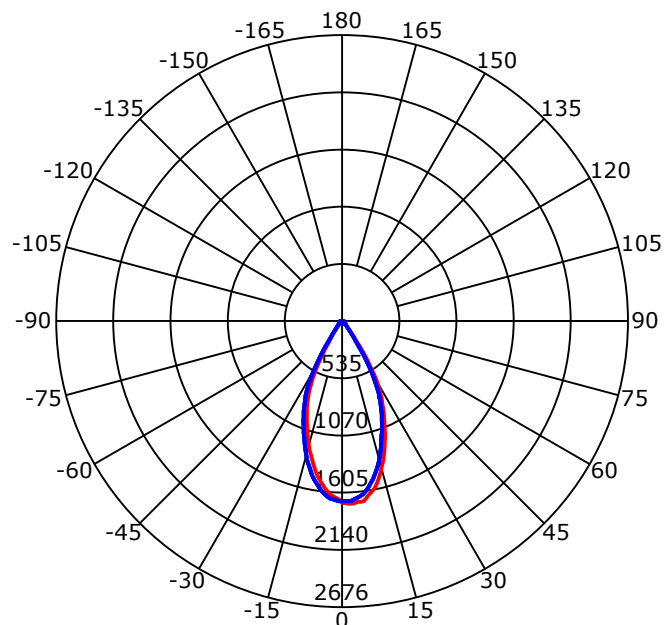
CIE Class: Direct
Luminaire Luminous Flux: 1109.401 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 103.30 lm/W
Beam Angle(50%) C0-180,C90-270: 48.6,49.7
Field Angle(10%) C0-180,C90-270: 70.9,71.3
S/MH C0-180,C90-270: 0.768,0.768

Max. Intensity: 2129.50 cd
Max.Intensity Angle: C=315 Gamma=0
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 1699.62 cd
Effective Luminous Flux: 979.75 lm
ERP(ϕ use)(120deg): 1086.58 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 48.6 deg,49.7 deg

C0-180 — C90-270 —

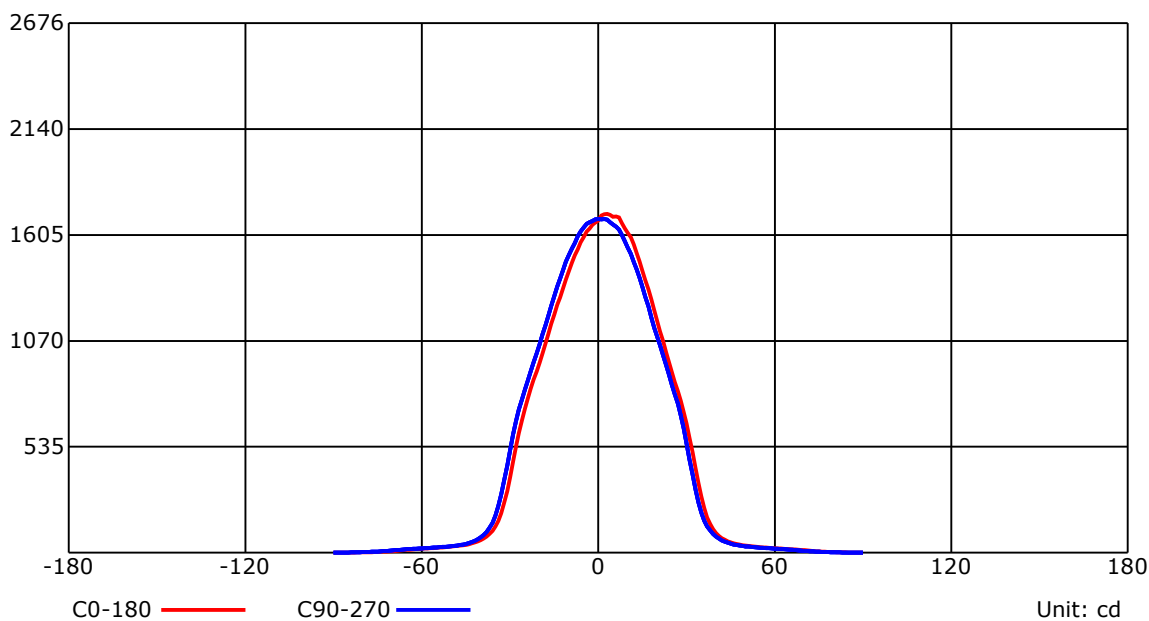
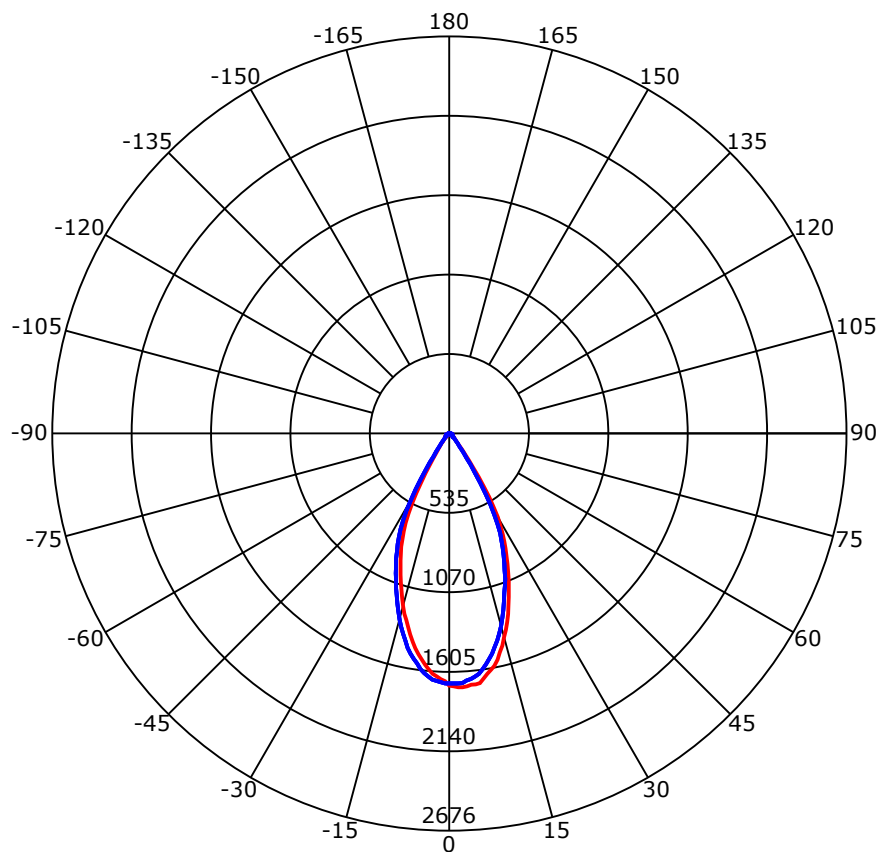
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/10/27 14:41:12

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

Report No.:

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Luminous Intensity Distribution Curve



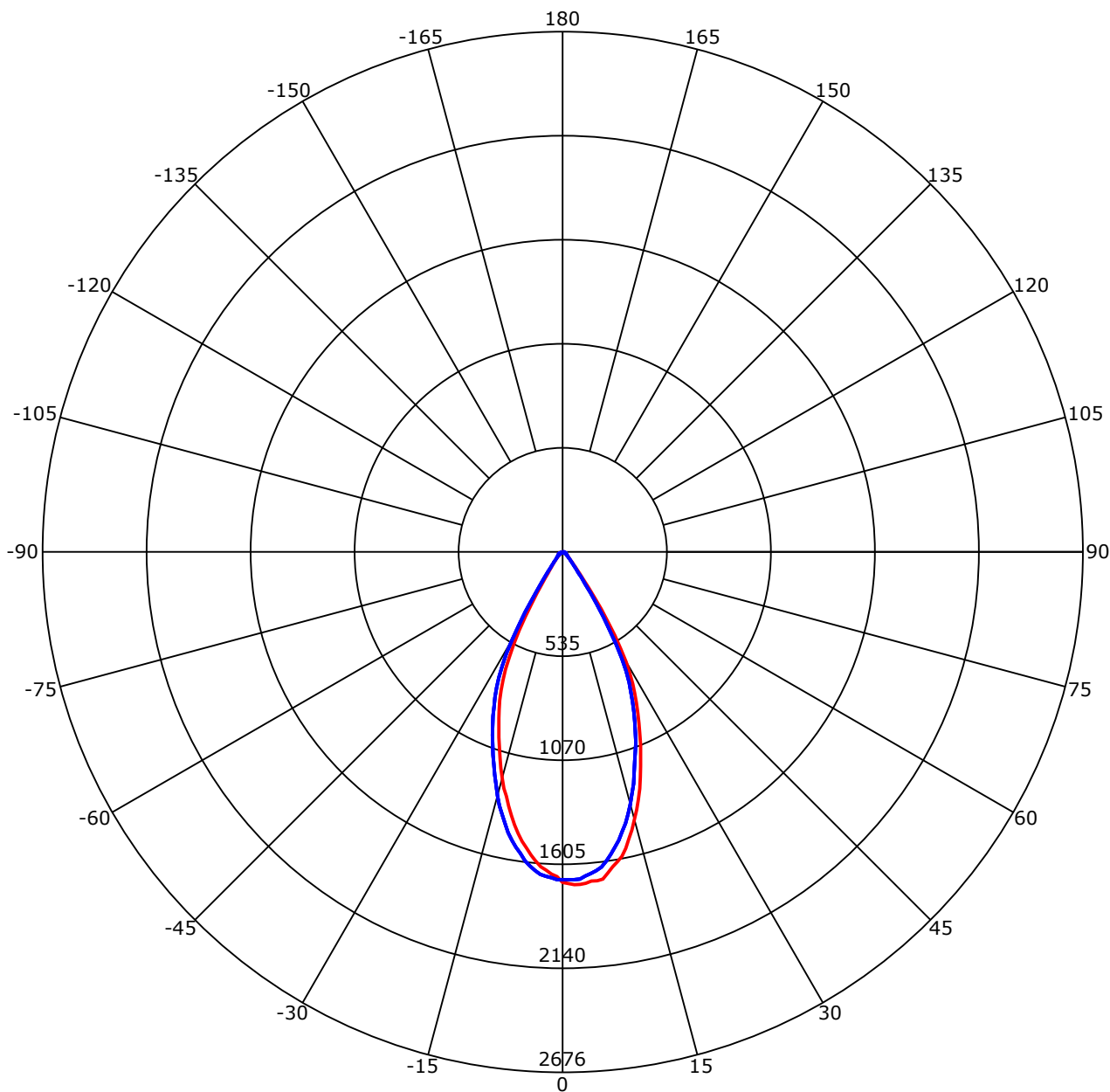
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

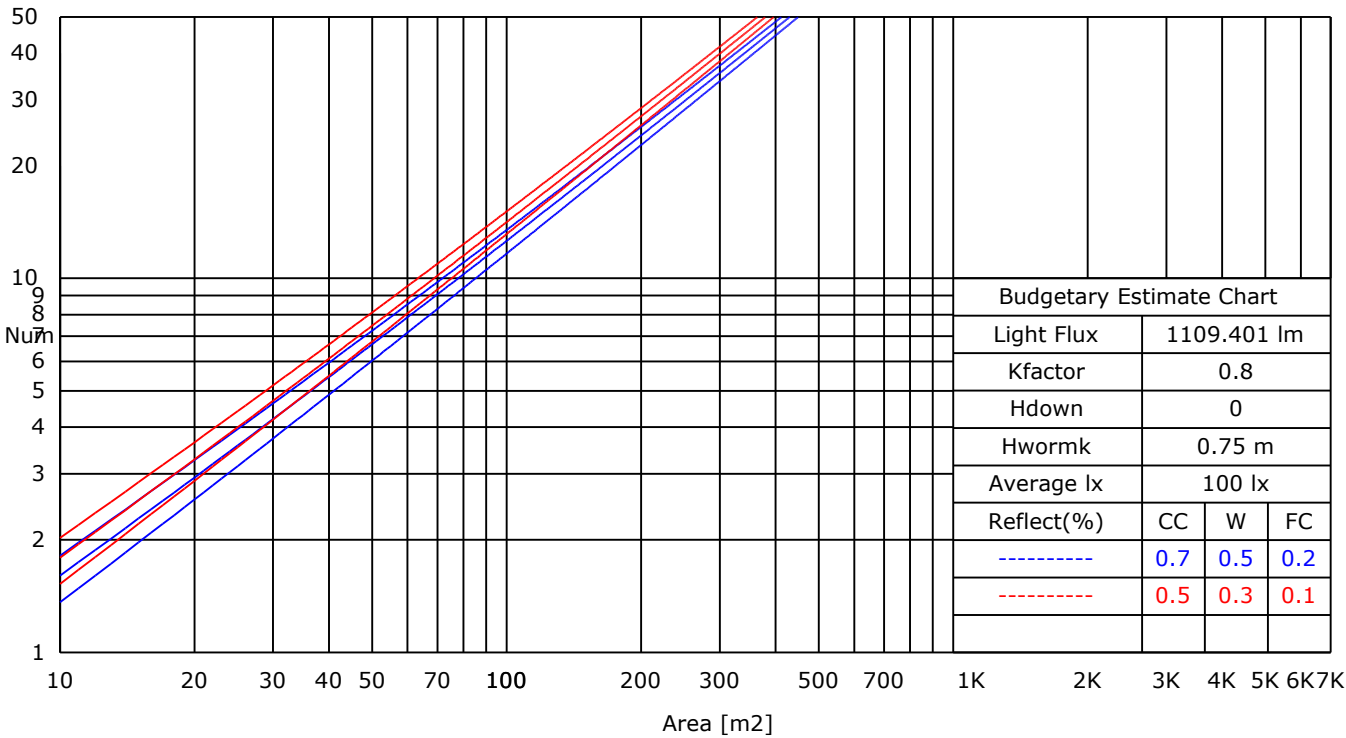
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UTILIZATION FACTORS TABLE

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

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



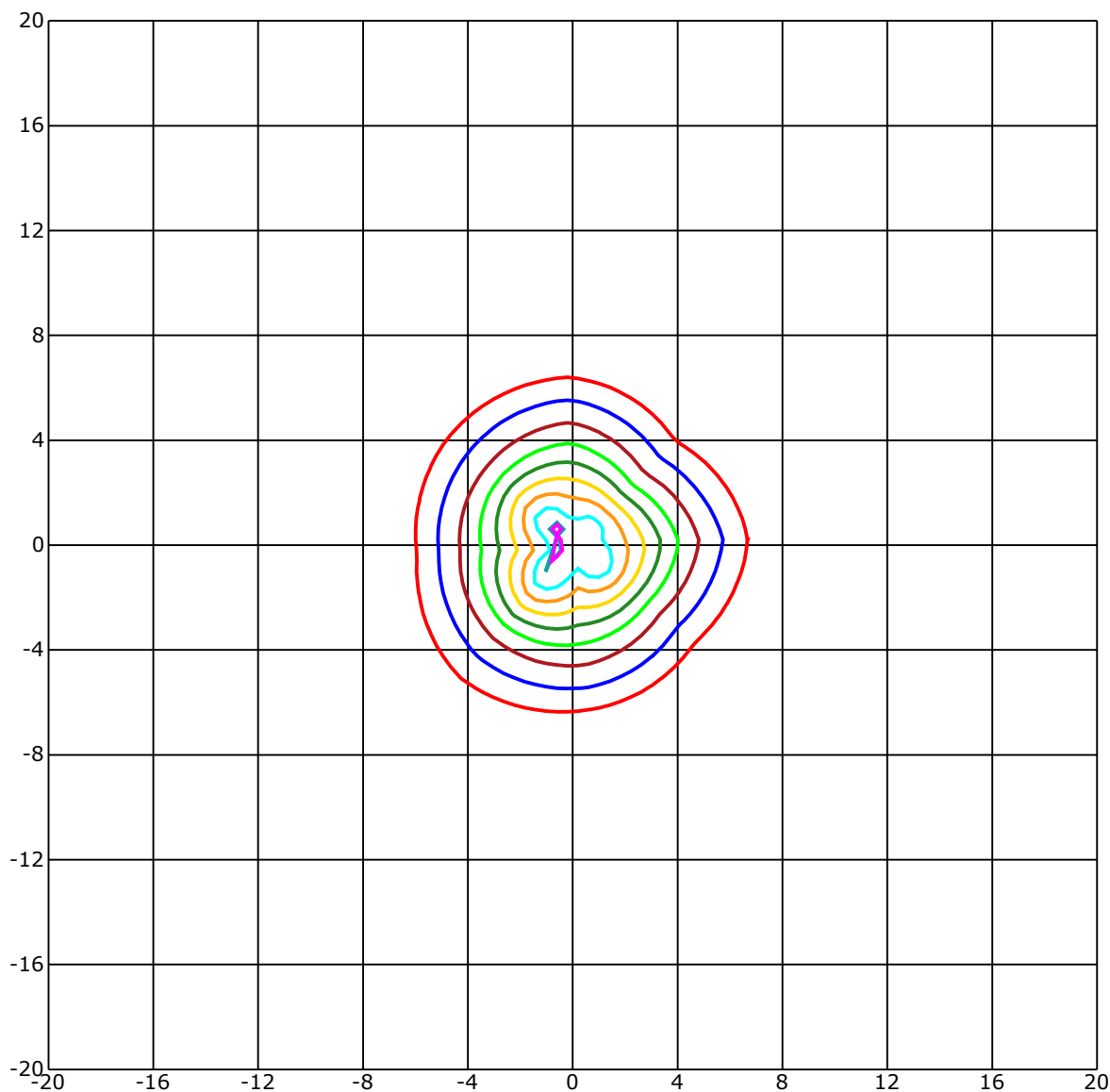
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Temperature: 25
Operators: QC01
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
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ISOLX DIAGRAM



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

19.591(92%Emax)	10.647(50%Emax)
19.165(90%Emax)	8.518(40%Emax)
17.036(80%Emax)	6.388(30%Emax)
14.906(70%Emax)	4.259(20%Emax)
12.777(60%Emax)	2.129(10%Emax)

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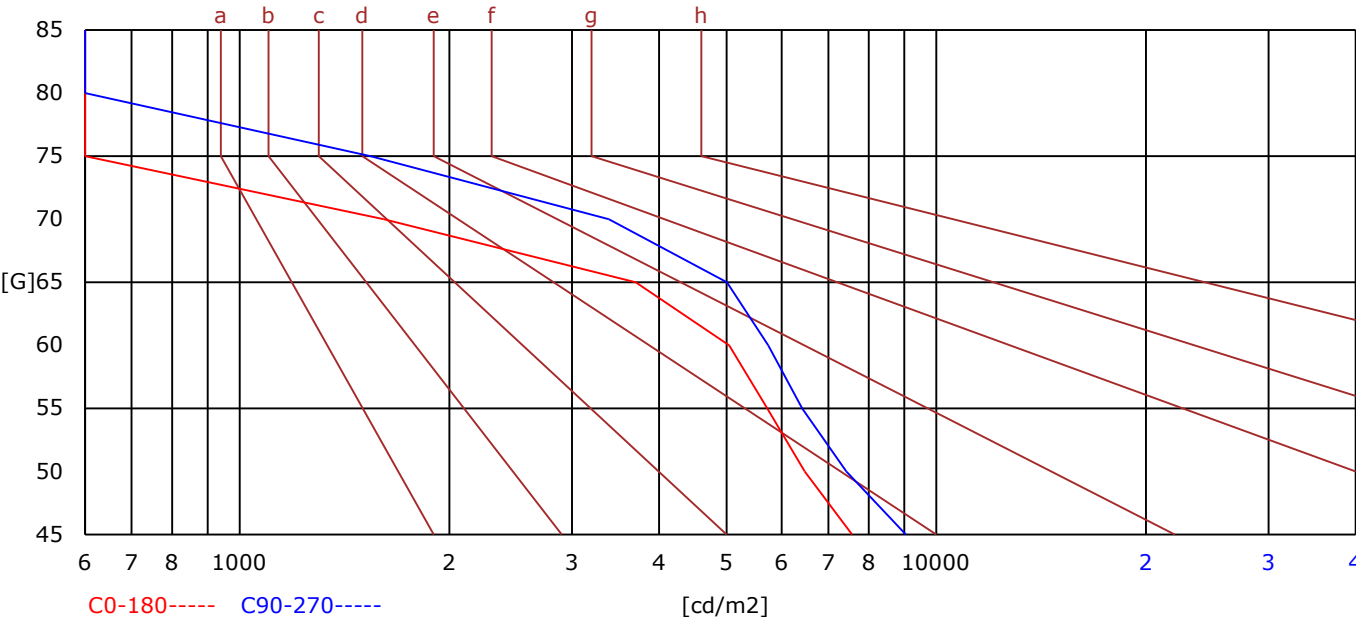
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	7573	6471	5723	5043	3704	1610	252	0	0
C90	9049	7429	6418	5739	5007	3390	1540	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



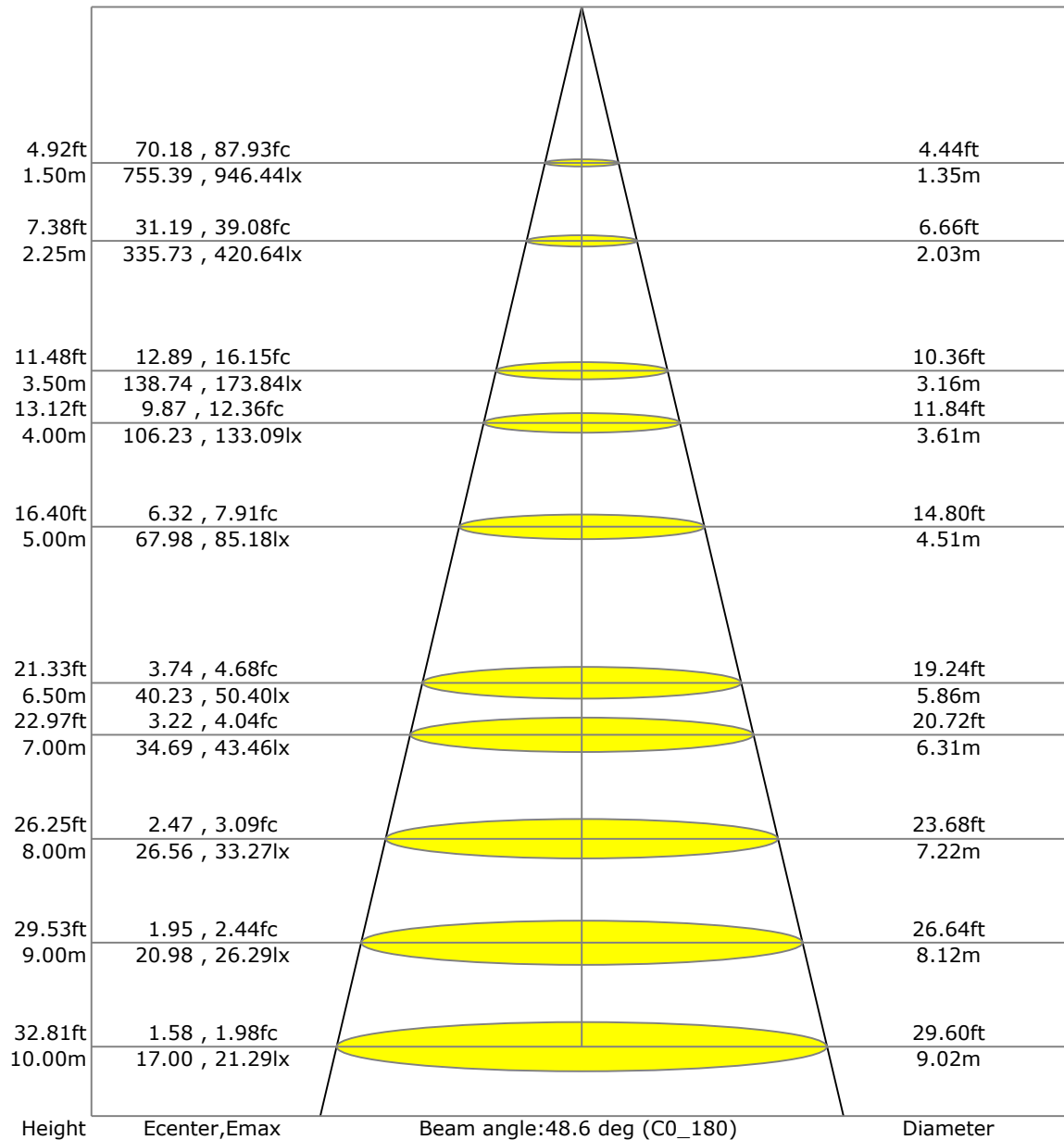
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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 25
 Operators: QC01
 Test Date: 2024/10/27 14:41:12

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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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	8.56	8.61	8.76	8.80	9.04	8.40	8.45	8.60	8.63	8.88
	3H	8.58	8.64	8.79	8.83	9.07	8.43	8.49	8.64	8.68	8.92
	4H	8.57	8.62	8.78	8.82	9.07	8.43	8.48	8.64	8.67	8.92
	6H	8.56	8.61	8.77	8.81	9.06	8.41	8.46	8.63	8.66	8.91
	8H	8.55	8.60	8.77	8.80	9.06	8.40	8.45	8.62	8.66	8.91
	12H	8.54	8.59	8.76	8.80	9.05	8.39	8.44	8.61	8.65	8.90
4H	2H	9.64	9.70	9.85	9.89	10.14	9.23	9.28	9.44	9.48	9.73
	3H	9.66	9.71	9.88	9.92	10.17	9.26	9.31	9.48	9.52	9.77
	4H	9.64	9.69	9.87	9.91	10.17	9.25	9.30	9.48	9.51	9.77
	6H	9.62	9.67	9.86	9.89	10.16	9.23	9.28	9.46	9.50	9.76
	8H	9.61	9.66	9.85	9.88	10.15	9.21	9.26	9.46	9.49	9.76
	12H	9.59	9.64	9.84	9.87	10.14	9.20	9.25	9.45	9.48	9.75
8H	4H	9.75	9.80	9.97	10.00	10.26	9.27	9.32	9.49	9.53	9.78
	6H	9.73	9.78	9.98	10.01	10.29	9.26	9.31	9.52	9.55	9.82
	8H	9.72	9.76	9.98	10.01	10.28	9.25	9.29	9.51	9.54	9.81
	12H	9.70	9.74	9.97	9.99	10.28	9.23	9.27	9.50	9.53	9.81
12H	4H	9.76	9.81	10.01	10.04	10.31	9.29	9.34	9.54	9.57	9.84
	6H	9.74	9.78	10.00	10.03	10.31	9.26	9.31	9.53	9.55	9.83

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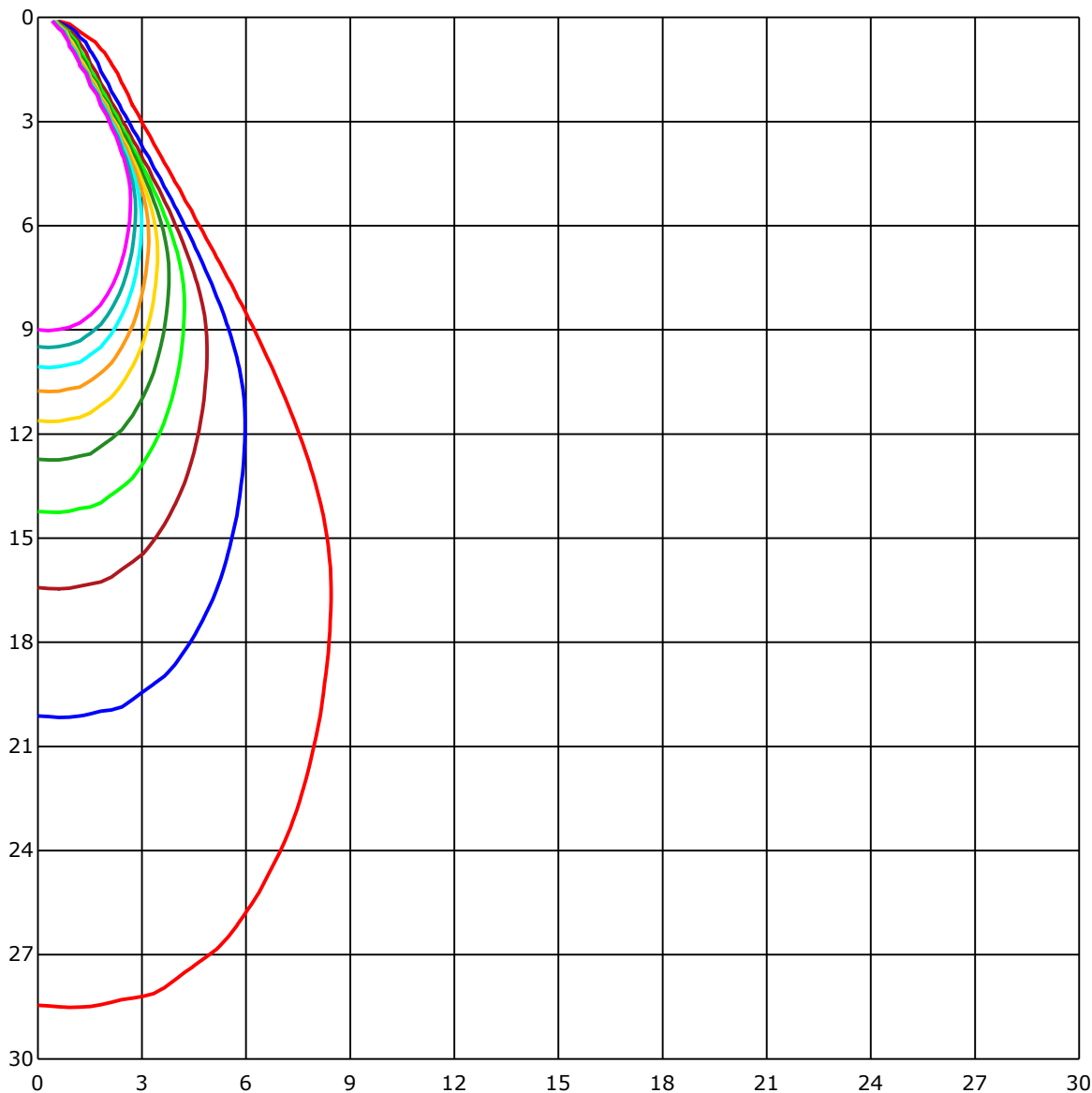
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Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

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Humidity: 60
Test Distance: 6.81 m
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SPACE ISOLX DIAGRAM



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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	1699.62	2095.69	1684.59	2129.5	1678.32	2095.69	1686.16	2129.5	1692.95	
G1	1704.55	2073.89	1685.12	2124.81	1668.43	2117.02	1685.08	2122.4	1700.61	
G2	1710.95	2039.39	1685.35	2119.9	1656.88	2121.89	1675.94	2109.05	1708.77	
G3	1711.88	1997.74	1683.5	2105.52	1638.0	2124.26	1669.35	2085.39	1712.02	
G4	1706.92	1950.21	1669.54	2079.13	1622.38	2116.28	1661.89	2057.2	1708.13	
G5	1698.01	1898.04	1659.24	2051.49	1595.57	2109.28	1643.71	2017.73	1694.95	
G6	1699.22	1834.87	1647.05	2012.72	1567.19	2079.46	1622.7	1975.95	1702.61	
G7	1693.98	1775.23	1631.98	1965.28	1533.1	2047.88	1599.28	1929.2	1692.96	
G8	1665.6	1707.2	1605.45	1923.87	1502.54	2014.39	1564.45	1872.53	1673.02	
G9	1638.79	1639.12	1574.24	1871.46	1465.62	1972.47	1536.81	1811.68	1649.69	
G10	1616.44	1571.04	1541.4	1818.64	1425.0	1920.81	1506.3	1744.34	1620.01	
G11	1594.04	1491.59	1510.1	1750.1	1380.25	1862.65	1470.45	1673.34	1591.4	
G12	1557.73	1411.5	1469.33	1683.68	1334.94	1802.64	1426.99	1602.99	1560.37	
G13	1514.04	1332.43	1432.51	1614.54	1289.67	1738.69	1385.9	1528.97	1525.26	
G14	1472.58	1253.08	1389.98	1538.76	1252.99	1664.62	1345.0	1453.66	1480.84	
G15	1423.14	1181.94	1343.1	1461.45	1204.06	1592.23	1298.02	1374.31	1436.69	
G16	1377.79	1107.83	1292.64	1385.07	1155.65	1515.39	1245.76	1293.52	1392.07	
G17	1330.72	1037.71	1245.06	1306.55	1103.52	1438.17	1196.23	1214.22	1346.07	
G18	1280.07	968.94	1188.3	1231.33	1055.75	1355.11	1147.3	1136.96	1294.4	
G19	1224.93	900.48	1135.66	1150.78	1007.24	1273.16	1103.57	1060.3	1236.48	
G20	1172.16	838.16	1092.48	1076.11	959.71	1193.21	1052.74	986.74	1180.64	
G21	1117.43	782.74	1049.35	1005.57	916.44	1112.8	1008.59	923.81	1128.47	
G22	1068.46	734.09	995.93	941.25	874.75	1039.29	960.54	862.46	1077.87	
G23	1012.62	682.19	947.93	878.92	828.05	970.93	916.39	799.57	1025.84	
G24	962.68	630.39	900.53	820.39	778.28	907.21	868.72	745.59	975.38	
G25	913.15	579.28	848.68	767.39	726.57	848.5	823.59	689.06	928.4	
G26	863.38	522.75	800.36	716.7	670.04	794.47	775.13	639.29	875.12	
G27	816.13	459.4	752.54	666.19	604.42	743.78	723.98	584.99	826.89	
G28	767.34	393.13	692.35	616.38	534.02	693.28	663.87	524.47	778.14	
G29	710.85	325.98	627.42	558.0	459.63	643.05	596.77	456.9	726.3	
G30	651.72	263.46	549.74	494.0	382.97	591.39	519.09	387.47	665.17	
G31	580.68	207.58	471.69	424.62	311.51	532.54	440.67	317.72	594.73	
G32	506.38	160.79	393.83	355.43	250.52	467.1	364.24	253.96	523.22	
G33	427.49	126.0	319.58	288.04	199.37	400.04	295.6	200.67	444.42	
G34	353.8	103.0	254.7	227.24	160.97	332.47	235.96	158.88	368.69	
G35	285.49	86.54	202.57	176.09	132.68	270.56	187.68	128.14	299.22	
G36	226.13	73.97	161.62	137.09	110.84	214.95	151.0	107.69	237.77	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	178.41	64.37	133.33	108.2	94.56	171.31	124.75	92.15	187.78	
G38	144.14	57.23	111.35	88.76	81.95	138.06	104.53	80.97	150.68	
G39	118.26	52.08	94.47	74.99	71.51	115.06	89.65	72.53	123.22	
G40	99.24	47.26	81.2	65.3	63.58	97.48	77.68	66.09	103.33	
G41	84.73	43.96	71.23	57.69	57.27	84.27	68.45	60.52	87.79	
G42	73.55	41.0	62.42	52.17	51.89	74.16	60.52	56.3	75.64	
G43	64.79	38.49	55.7	47.35	46.75	66.5	54.4	52.54	66.27	
G44	57.55	36.22	49.95	44.1	43.13	60.1	49.25	49.53	59.27	
G45	51.85	34.27	45.17	40.95	39.88	55.74	44.71	46.52	53.24	
G46	47.07	32.42	41.6	38.26	37.7	51.66	41.41	44.15	48.09	
G47	43.32	31.03	38.77	35.94	35.48	48.23	38.82	41.88	44.01	
G48	40.25	29.4	35.94	33.85	33.72	45.45	36.41	40.12	41.14	
G49	37.66	28.1	33.9	32.32	32.09	43.27	34.5	38.35	38.4	
G50	35.66	26.62	31.91	30.56	30.75	40.95	32.79	36.92	36.17	
G51	33.76	25.41	30.42	28.85	29.12	39.28	31.44	35.57	34.41	
G52	32.14	24.12	29.03	27.45	28.06	37.8	30.1	34.27	32.56	
G53	30.65	23.05	27.83	26.16	26.81	36.27	29.08	32.93	31.03	
G54	29.5	21.98	26.43	25.0	25.65	34.74	27.92	31.95	29.68	
G55	28.01	21.01	25.37	23.56	24.76	33.67	26.85	30.79	28.34	
G56	26.81	19.99	24.3	22.59	23.7	32.14	25.74	29.5	27.18	
G57	25.69	18.97	23.37	21.38	22.72	31.26	24.72	28.38	26.2	
G58	24.63	18.09	22.35	20.54	21.8	29.87	23.79	27.32	25.0	
G59	23.56	17.25	21.33	19.39	20.73	29.03	22.96	26.2	23.93	
G60	22.86	16.14	20.36	18.36	19.85	27.96	22.03	25.37	22.96	
G61	21.7	15.21	19.43	17.53	18.78	26.85	21.15	24.3	21.98	
G62	20.82	14.05	18.41	16.42	17.95	25.83	20.27	23.37	21.1	
G63	19.94	12.99	17.53	15.35	16.79	24.81	19.34	22.35	20.08	
G64	18.97	11.55	16.42	14.56	15.58	23.88	18.32	21.29	19.25	
G65	17.99	10.02	15.58	13.54	14.38	22.86	17.58	20.17	18.32	
G66	17.11	8.16	14.42	12.57	13.26	21.7	16.37	19.11	17.39	
G67	15.91	6.26	13.31	11.41	11.78	20.68	15.4	17.48	16.28	
G68	15.03	5.05	11.97	10.3	10.02	19.76	14.1	15.91	15.4	
G69	13.91	4.31	10.48	9.0	8.49	18.64	12.94	14.1	14.19	
G70	12.71	3.52	8.72	7.42	7.61	17.62	11.64	11.97	13.12	
G71	11.41	2.88	7.79	5.84	6.82	16.19	9.92	9.79	11.87	
G72	9.65	2.18	6.96	4.78	5.98	14.7	8.49	8.81	10.16	
G73	8.16	1.62	6.26	4.22	5.29	13.17	7.74	7.84	8.67	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

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Operators: QC01

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G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.81 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: 2024/10/27 14:41:12

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