

Report No.:

Test Time: 2024/8/6 17:23:54

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP150CT095H107-45°-15.3W
Lamp Type:
Luminous Width: 88 mm
Luminous Length: 88 mm
Luminous Height: 82 mm

Voltage(V): 219.80 V
Current(A): 0.0730 A
Power(W): 15.33 W
Power Factor: 0.9520
Lamp Luminous Flux: 1409.77

Photometric Results

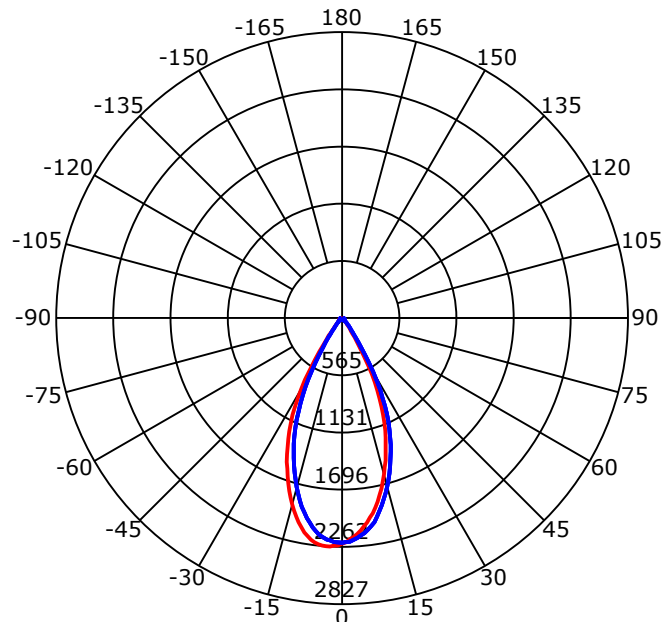
CIE Class: Direct
Luminaire Luminous Flux: 1409.768 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 91.96 lm/W
Beam Angle(50%) C0-180,C90-270: 48.1,48.1
Field Angle(10%) C0-180,C90-270: 69.8,70.8
S/MH C0-180,C90-270: 0.768,0.768

Max. Intensity: 2261.60 cd
Max.Intensity Angle: C=180 Gamma=3
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 2230.05 cd
Effective Luminous Flux: 1273.62 lm
ERP(ϕ use)(120deg): 1387.60 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 48.1 deg,48.1 deg

C0-180 — C90-270 —

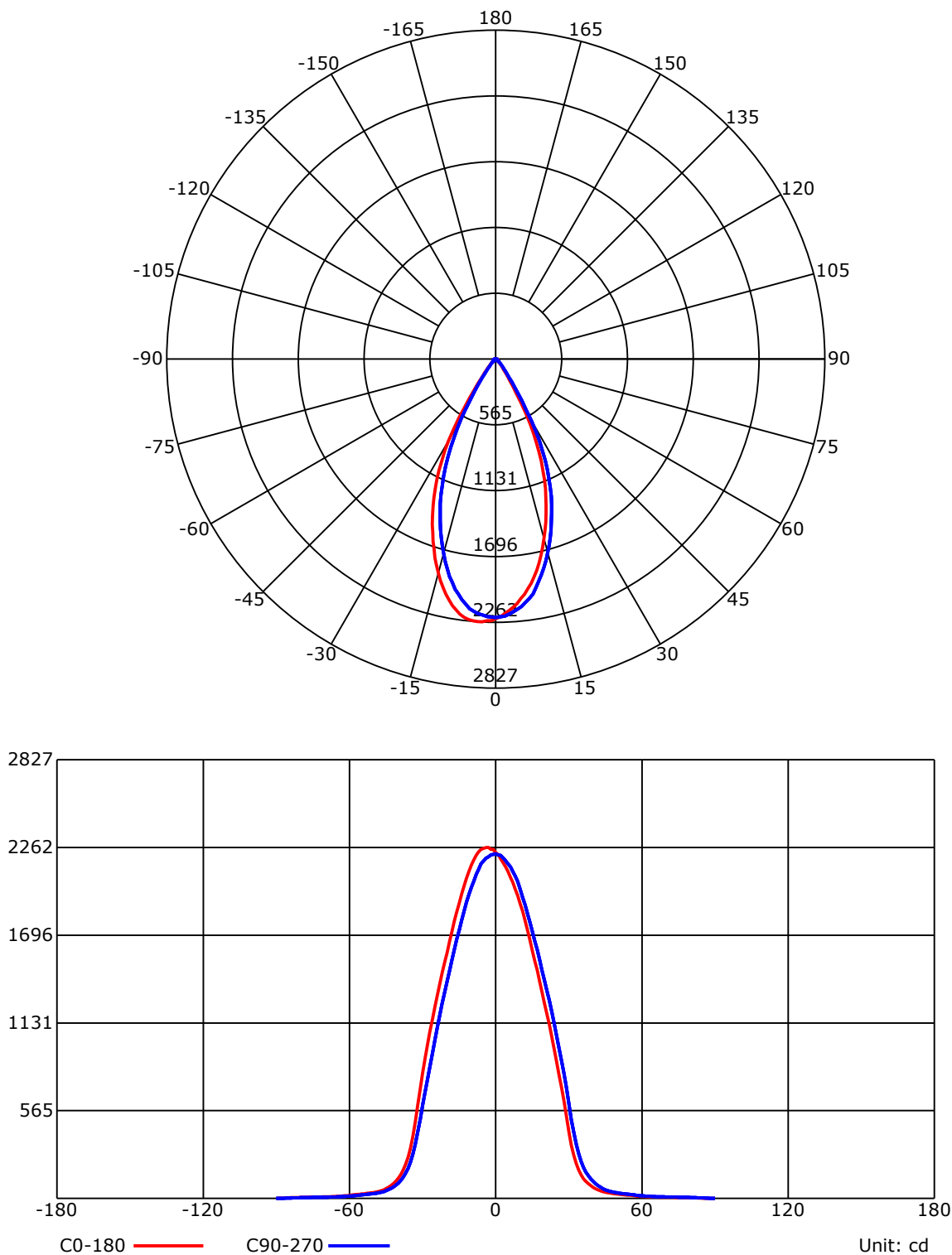
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/8/6 17:23:54

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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Luminous Intensity Distribution Curve



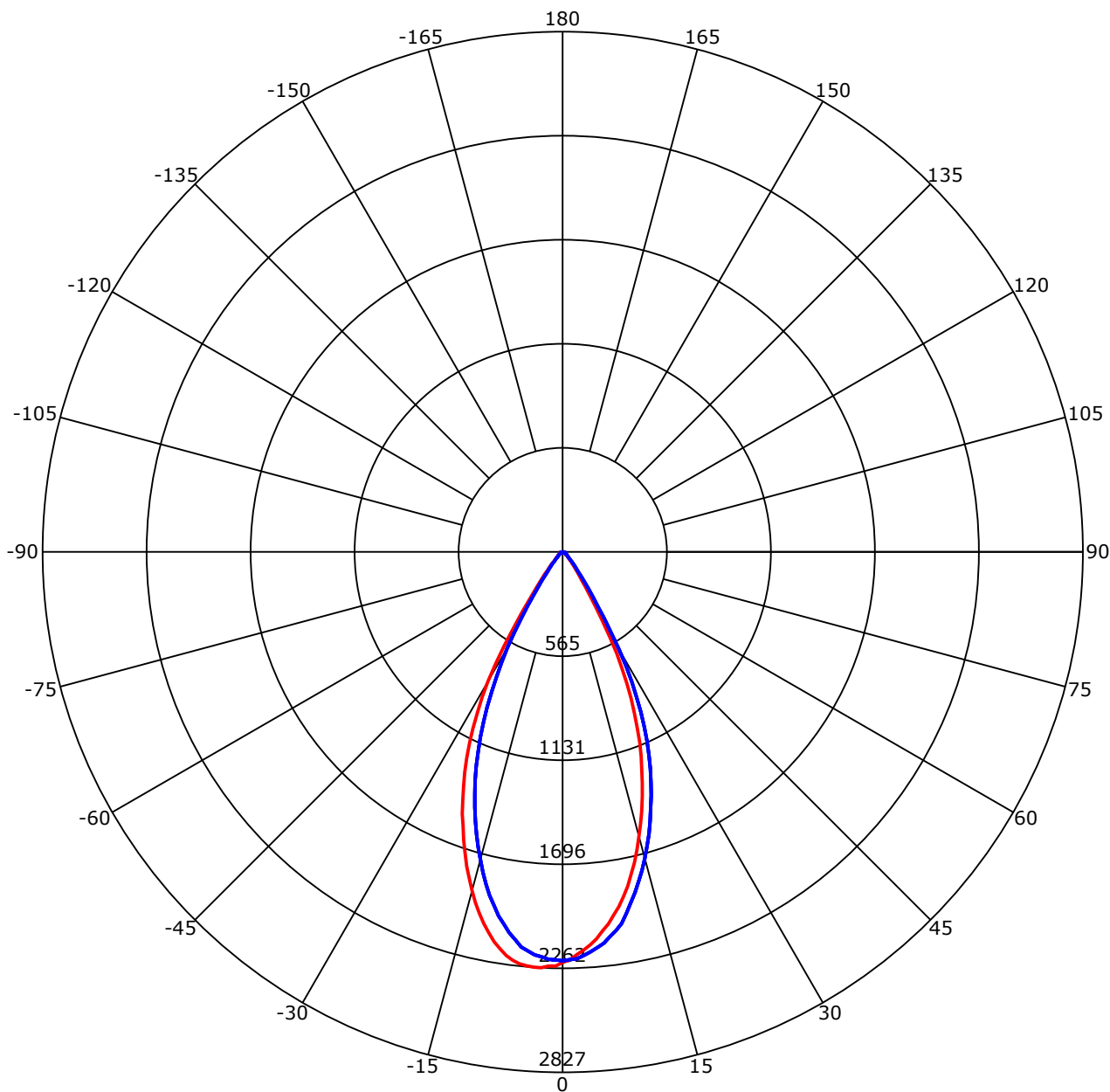
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Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/8/6 17:23:54

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
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
Test Date: 2024/8/6 17:23:54

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

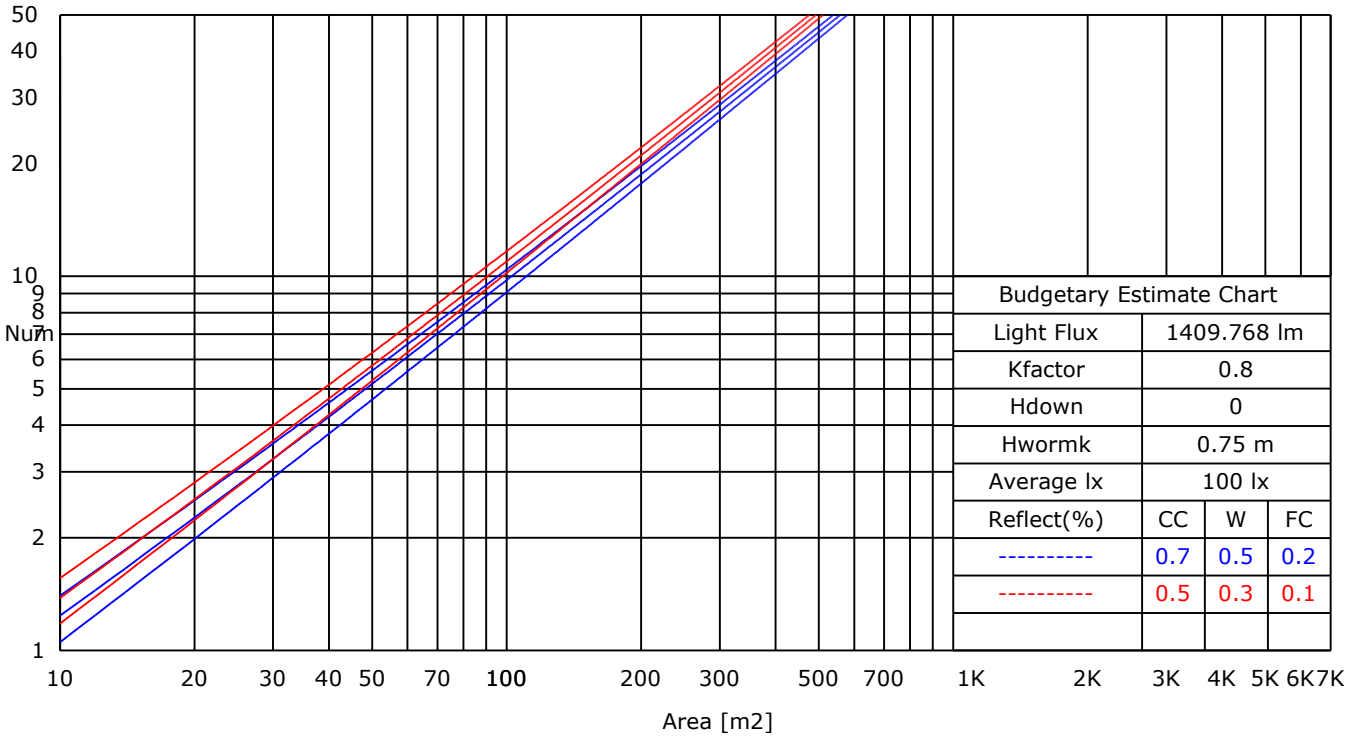
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UTILIZATION FACTORS TABLE

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	1.03	1.01	1.00	1.02	1.00	0.98	0.98	0.96	0.94	0.94	0.91	0.89	0.87	0.85	0.83	0.77
2	0.99	0.97	0.96	0.98	0.96	0.94	0.95	0.92	0.90	0.91	0.88	0.85	0.85	0.82	0.79	0.75
3	0.95	0.93	0.92	0.94	0.92	0.90	0.91	0.88	0.86	0.88	0.84	0.82	0.83	0.80	0.77	0.72
4	0.92	0.90	0.89	0.91	0.89	0.87	0.88	0.85	0.83	0.85	0.81	0.79	0.81	0.77	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	0.85	0.84	0.85	0.83	0.82	0.83	0.80	0.78	0.80	0.76	0.74	0.77	0.73	0.69	0.66
7	0.84	0.82	0.81	0.83	0.81	0.79	0.80	0.78	0.76	0.78	0.74	0.72	0.75	0.71	0.68	0.64
8	0.81	0.80	0.79	0.80	0.78	0.77	0.78	0.75	0.73	0.76	0.72	0.70	0.73	0.69	0.66	0.62
9	0.79	0.78	0.77	0.78	0.76	0.75	0.76	0.73	0.72	0.74	0.70	0.68	0.71	0.67	0.64	0.61
10	0.77	0.76	0.75	0.76	0.75	0.73	0.74	0.72	0.70	0.72	0.68	0.66	0.69	0.65	0.62	0.59

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



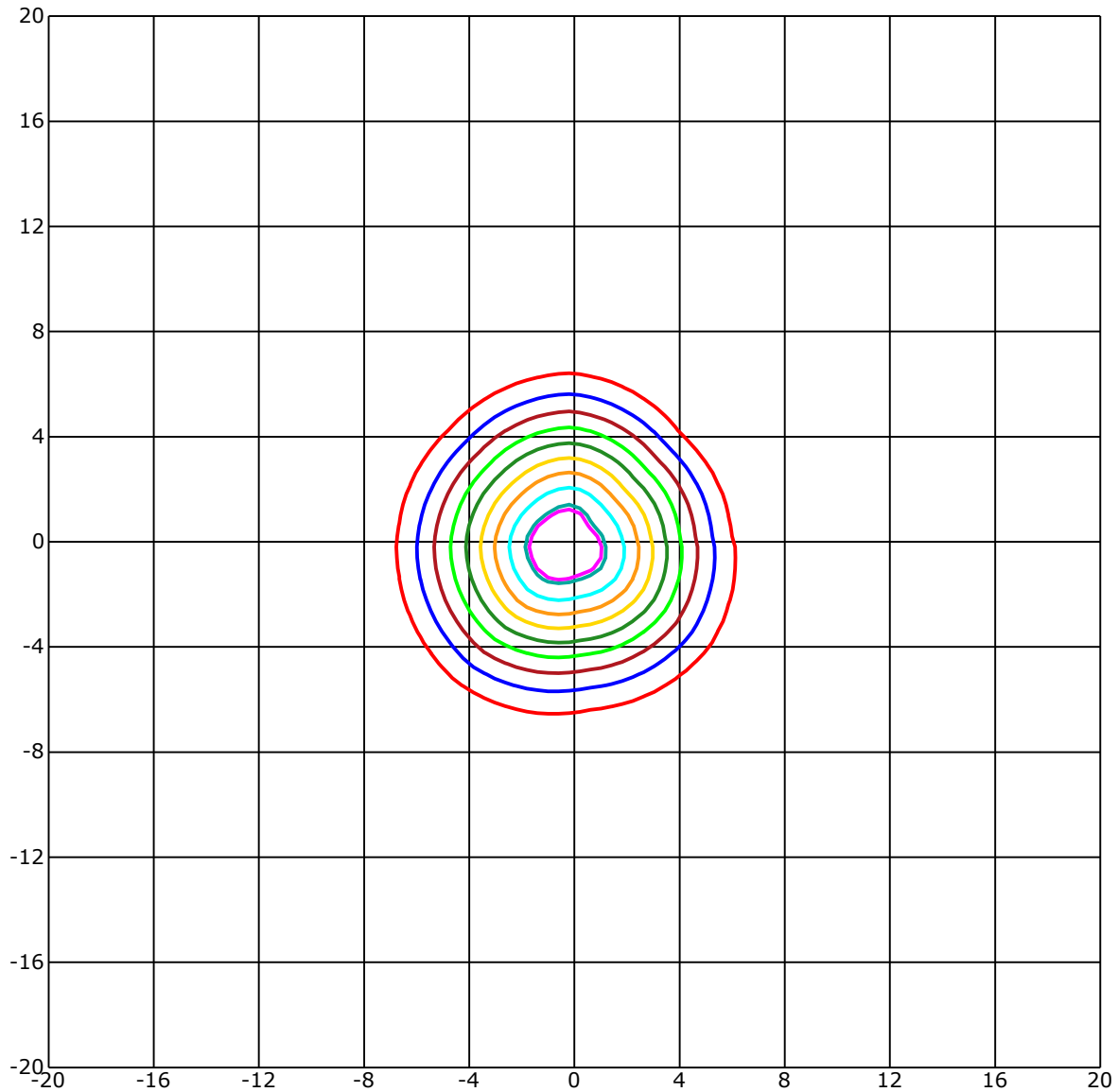
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Temperature: 25
Operators: QC01
Test Date: 2024/8/6 17:23:54

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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ISOLX DIAGRAM



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/8/6 17:23:54

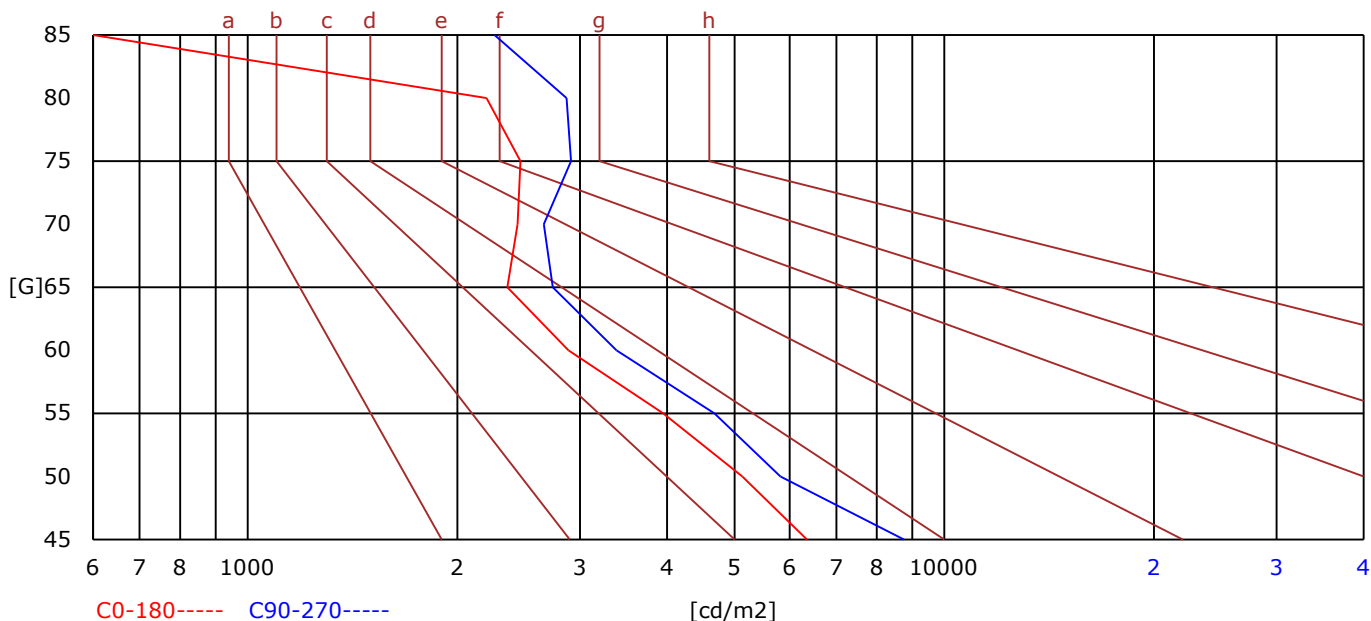
G Range: 0 - 90 Deg
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	6353	5131	3952	2887	2359	2441	2464	2203	266
C90	8755	5817	4679	3385	2743	2661	2912	2871	2261
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



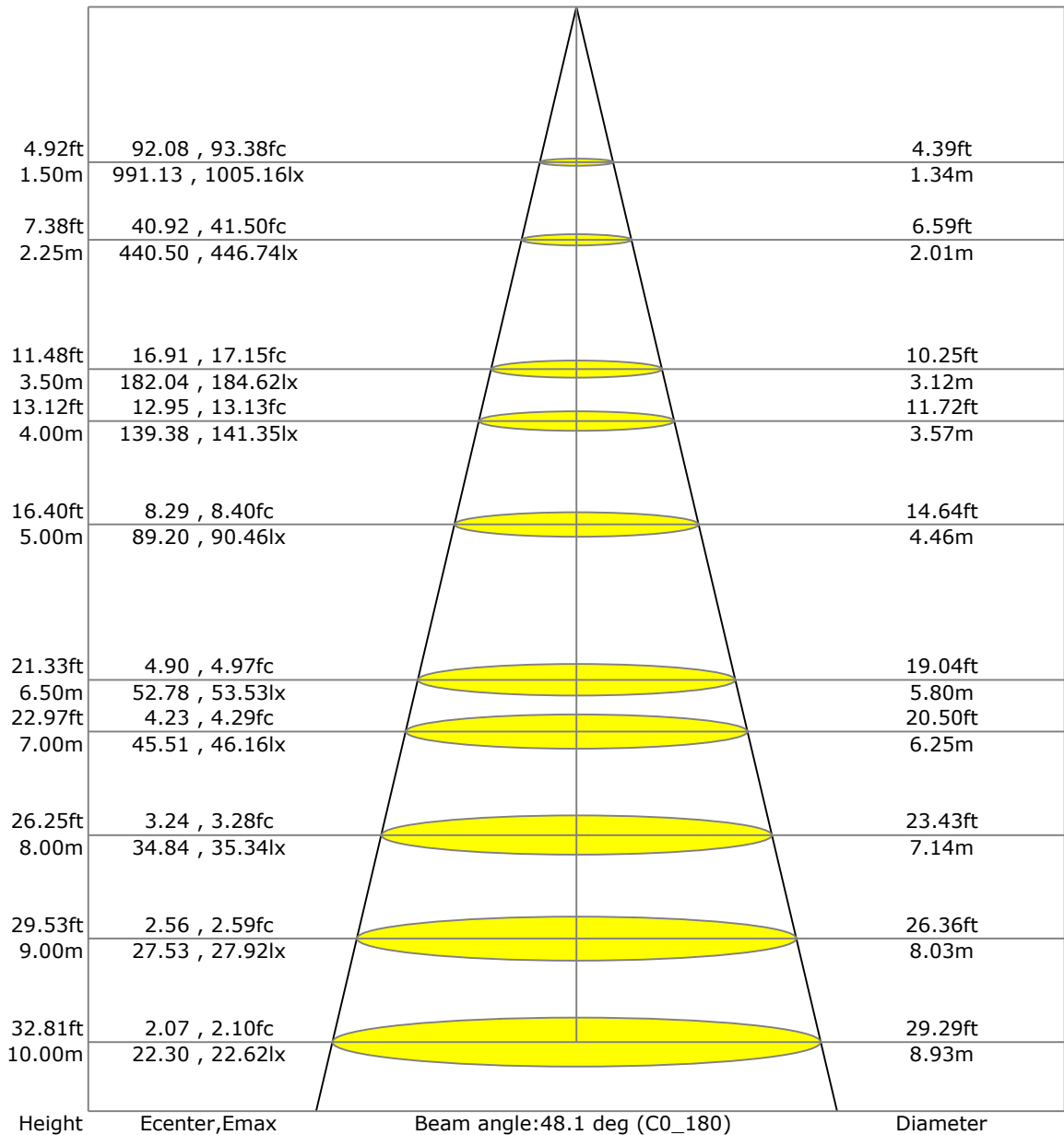
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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
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Operators: QC01
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G Interval: 1.0 Deg
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Humidity: 60
Test Distance: 6.7 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	6.53	6.57	6.72	6.76	7.00	6.79	6.84	6.99	7.02	7.27
	3H	6.55	6.60	6.76	6.79	7.04	6.80	6.85	7.00	7.04	7.29
	4H	6.55	6.60	6.76	6.80	7.05	6.79	6.85	7.00	7.04	7.29
	6H	6.54	6.59	6.76	6.79	7.04	6.78	6.83	7.00	7.03	7.28
	8H	6.53	6.58	6.75	6.79	7.04	6.77	6.82	6.99	7.03	7.28
	12H	6.52	6.57	6.74	6.78	7.03	6.76	6.81	6.98	7.02	7.27
4H	2H	7.15	7.20	7.36	7.40	7.65	7.60	7.66	7.81	7.85	8.10
	3H	7.27	7.32	7.49	7.53	7.78	7.71	7.76	7.93	7.97	8.22
	4H	7.30	7.35	7.53	7.57	7.83	7.73	7.78	7.96	7.99	8.25
	6H	7.31	7.36	7.55	7.58	7.84	7.73	7.78	7.96	8.00	8.26
	8H	7.31	7.35	7.55	7.58	7.85	7.72	7.77	7.96	7.99	8.26
	12H	7.29	7.34	7.54	7.57	7.84	7.71	7.75	7.95	7.98	8.25
8H	4H	7.42	7.47	7.64	7.67	7.93	8.04	8.09	8.25	8.29	8.54
	6H	7.70	7.75	7.96	7.99	8.26	8.32	8.37	8.57	8.60	8.88
	8H	7.70	7.75	7.96	7.99	8.27	8.31	8.36	8.57	8.60	8.88
	12H	7.69	7.73	7.96	7.99	8.27	8.30	8.34	8.57	8.59	8.87
12H	4H	7.72	7.77	7.97	8.00	8.27	8.46	8.50	8.70	8.73	9.00
	6H	7.75	7.80	8.02	8.04	8.32	8.49	8.53	8.75	8.77	9.05

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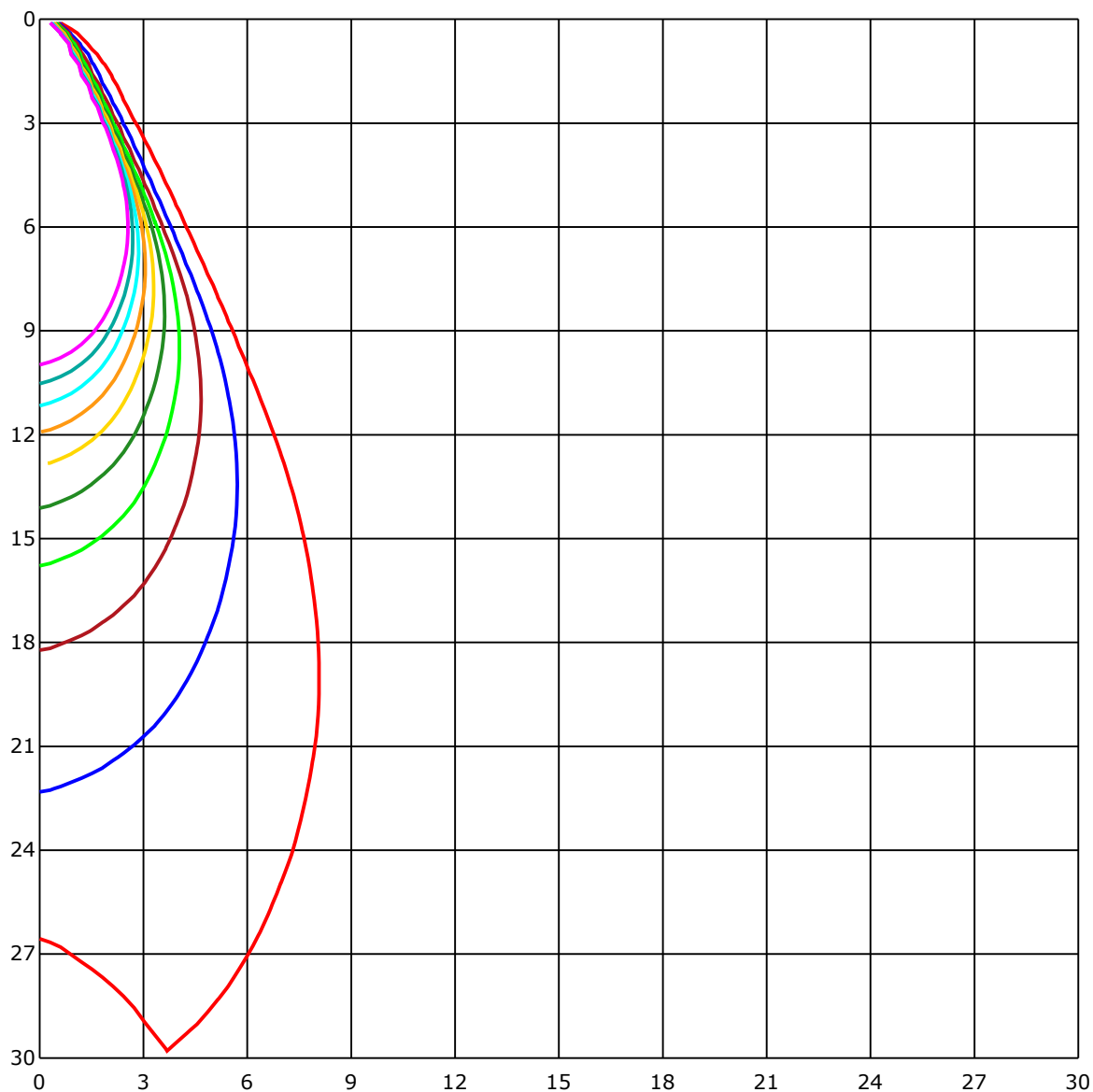
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G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

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SPACE ISOLX DIAGRAM



22.388	11.194
20.149	8.955
17.91	6.716
15.671	4.478
13.433	2.239

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Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	2230.05	2193.95	2220.53	2229.69	2230.05	2193.95	2220.53	2229.69	2230.05	
G1	2216.31	2178.51	2214.2	2233.19	2249.57	2212.99	2216.44	2228.88	2216.31	
G2	2188.43	2151.58	2210.83	2227.35	2250.29	2225.96	2214.38	2214.33	2188.43	
G3	2165.13	2123.75	2194.27	2222.32	2261.6	2234.31	2201.68	2207.2	2165.13	
G4	2138.74	2095.42	2177.48	2208.95	2261.02	2233.82	2193.19	2186.28	2138.74	
G5	2109.65	2058.93	2156.79	2196.29	2256.53	2236.06	2175.41	2160.96	2109.65	
G6	2068.8	2024.58	2137.21	2174.16	2248.94	2230.54	2157.59	2135.06	2068.8	
G7	2035.49	1977.32	2105.84	2145.43	2234.62	2219.54	2121.37	2105.79	2035.49	
G8	1991.01	1936.96	2076.34	2104.76	2212.9	2209.31	2088.6	2077.6	1991.01	
G9	1951.77	1885.65	2042.85	2070.6	2182.33	2184.93	2046.4	2039.76	1951.77	
G10	1900.24	1835.42	1994.24	2021.98	2150.37	2151.44	2007.75	1996.35	1900.24	
G11	1849.38	1771.9	1939.47	1974.71	2106.96	2116.79	1956.71	1953.52	1849.38	
G12	1789.41	1713.5	1891.84	1921.16	2063.32	2076.66	1908.86	1903.74	1789.41	
G13	1731.0	1649.8	1836.58	1868.28	2014.57	2033.25	1851.26	1853.91	1731.0	
G14	1666.72	1585.6	1782.04	1810.32	1963.13	1987.37	1794.21	1795.11	1666.72	
G15	1598.85	1524.38	1723.19	1751.92	1904.41	1933.32	1729.88	1730.64	1598.85	
G16	1533.98	1455.2	1662.1	1687.42	1844.17	1878.2	1668.52	1672.74	1533.98	
G17	1470.55	1389.35	1602.44	1628.74	1785.99	1824.2	1602.62	1609.26	1470.55	
G18	1396.8	1320.35	1536.59	1559.79	1717.54	1761.26	1535.06	1542.24	1396.8	
G19	1328.12	1259.08	1467.32	1495.38	1654.78	1690.51	1465.79	1476.25	1328.12	
G20	1256.56	1188.78	1406.05	1431.41	1583.54	1620.57	1398.01	1406.94	1256.56	
G21	1190.26	1115.74	1339.74	1361.96	1523.52	1552.12	1330.09	1334.36	1190.26	
G22	1116.19	1040.6	1272.45	1289.56	1450.8	1486.31	1254.36	1269.0	1116.19	
G23	1038.26	961.54	1201.17	1218.9	1379.29	1411.03	1177.73	1189.77	1038.26	
G24	959.75	879.4	1125.75	1137.96	1308.05	1345.4	1100.39	1113.81	959.75	
G25	878.14	794.51	1047.06	1056.8	1234.21	1268.64	1020.26	1039.74	878.14	
G26	795.41	708.36	967.29	976.13	1155.02	1195.6	937.17	958.49	795.41	
G27	709.35	620.56	881.95	890.75	1076.33	1120.01	848.6	878.54	709.35	
G28	624.91	518.66	801.33	802.99	990.09	1036.06	766.27	796.39	624.91	
G29	529.34	421.61	713.57	711.33	902.6	950.01	685.83	717.12	529.34	
G30	431.48	338.38	612.25	605.57	811.97	860.72	603.41	635.19	431.48	
G31	343.59	269.52	508.96	507.66	710.56	770.58	511.61	545.64	343.59	
G32	276.12	217.18	422.41	419.99	598.11	680.58	425.24	457.47	276.12	
G33	224.63	176.55	348.75	347.63	492.89	577.96	349.33	376.99	224.63	
G34	183.6	146.07	288.73	286.94	399.84	478.71	285.99	312.3	183.6	
G35	152.13	123.99	238.99	237.74	325.0	387.4	234.73	257.85	152.13	
G36	127.31	106.25	200.7	196.98	265.17	311.09	194.01	214.35	127.31	

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Humidity: 60
Test Distance: 6.7 m
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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	109.17	90.99	169.73	165.82	218.08	252.37	160.53	179.34	109.17	
G38	94.18	78.56	145.62	140.1	180.91	204.11	135.03	151.5	94.18	
G39	81.92	68.05	125.56	119.81	152.45	167.84	114.33	130.32	81.92	
G40	71.06	58.67	109.44	102.84	129.82	140.86	98.62	112.9	71.06	
G41	62.4	51.08	95.12	87.8	111.46	120.31	85.92	98.94	62.4	
G42	54.45	45.29	82.64	75.01	95.53	103.34	74.61	86.95	54.45	
G43	48.3	40.94	71.69	64.15	82.78	89.42	64.51	76.27	48.3	
G44	42.87	37.66	62.44	55.12	72.09	77.39	56.38	67.07	42.87	
G45	39.32	34.79	55.26	47.94	63.43	67.38	49.65	59.7	39.32	
G46	36.27	32.59	49.38	41.84	55.71	59.88	44.04	53.42	36.27	
G47	34.03	30.66	44.67	37.62	49.92	53.51	39.55	48.66	34.03	
G48	31.69	28.82	40.98	33.94	45.11	48.8	36.54	44.26	31.69	
G49	29.9	26.98	37.93	31.47	41.57	44.62	33.62	41.07	29.9	
G50	28.1	25.54	35.55	28.95	38.65	41.52	31.33	38.29	28.1	
G51	26.57	24.02	33.4	27.07	36.23	38.92	29.54	36.05	26.57	
G52	24.91	22.4	31.38	25.41	34.34	36.5	27.88	34.07	24.91	
G53	23.39	20.78	29.27	23.97	32.28	34.7	26.13	32.01	23.39	
G54	21.82	19.57	27.61	22.13	30.35	32.64	24.73	30.03	21.82	
G55	20.29	17.55	25.63	20.78	28.77	30.66	23.07	28.42	20.29	
G56	18.63	15.49	24.06	19.35	26.84	28.86	21.77	26.75	18.63	
G57	16.79	13.92	22.04	17.69	25.45	27.16	20.11	24.96	16.79	
G58	14.95	13.02	19.89	15.76	23.88	25.95	18.4	22.94	14.95	
G59	13.96	11.9	18.36	14.14	22.22	24.11	16.43	20.78	13.96	
G60	13.11	11.18	17.28	13.11	19.89	22.4	15.17	19.03	13.11	
G61	12.12	10.37	15.85	12.21	18.36	20.02	14.14	17.96	12.12	
G62	11.18	9.56	14.81	11.31	17.33	18.49	12.88	16.7	11.18	
G63	10.55	8.8	13.83	10.5	16.16	17.33	11.94	15.62	10.55	
G64	9.65	8.44	12.88	9.88	14.9	16.21	11.27	14.63	9.65	
G65	9.07	7.72	12.08	8.98	13.92	15.13	10.32	13.83	9.07	
G66	8.53	7.27	11.54	8.44	12.93	14.28	9.7	12.97	8.53	
G67	7.99	7.05	10.77	7.68	12.12	13.15	8.93	12.12	7.99	
G68	7.81	6.96	10.32	7.27	11.4	12.39	8.44	11.36	7.81	
G69	7.59	6.69	9.88	7.23	10.86	11.58	7.86	10.91	7.59	
G70	7.36	6.46	9.74	7.05	10.19	10.91	7.86	10.5	7.36	
G71	7.27	6.33	9.47	6.78	9.88	10.32	7.5	10.37	7.27	
G72	6.91	6.19	9.11	6.64	9.61	10.06	7.41	10.19	6.91	
G73	6.69	5.75	8.71	6.37	9.47	9.56	7.14	9.97	6.69	

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

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

[illegible]

C Range: 0 - 360 Deg
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Test Speed: High
Temperature: 25
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G Range: 0 - 90 Deg
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Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks: