

Report No.:

Test Time: 2024/10/27 14:24:42

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP151CT095H88-38°-15W
Lamp Type:
Luminous Width: 80 mm
Luminous Length: 80 mm
Luminous Height: 70 mm

Voltage(V): 219.40 V
Current(A): 0.0700 A
Power(W): 14.34 W
Power Factor: 0.9280
Lamp Luminous Flux: 1381.59

Photometric Results

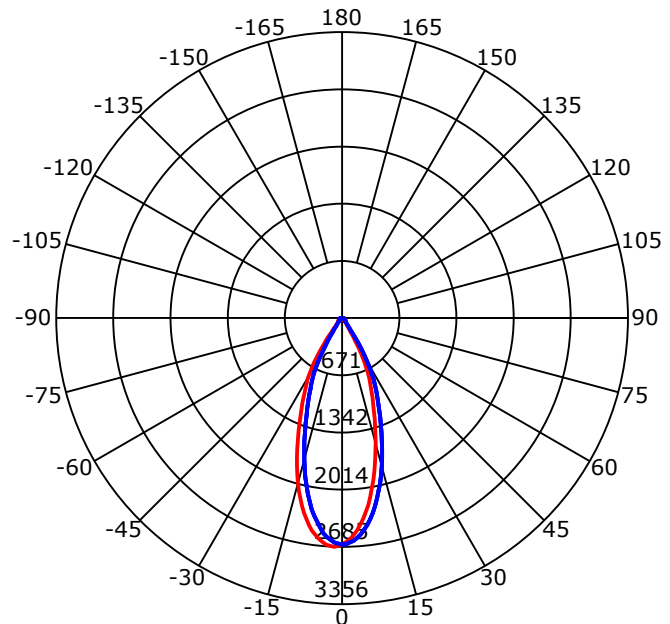
CIE Class: Direct
Luminaire Luminous Flux: 1381.589 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 96.35 lm/W
Beam Angle(50%) C0-180,C90-270: 38.7,38.9
Field Angle(10%) C0-180,C90-270: 67.2,66.9
S/MH C0-180,C90-270: 0.650,0.650

Max. Intensity: 2684.90 cd
Max.Intensity Angle: C=180 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 2655.45 cd
Effective Luminous Flux: 1217.40 lm
ERP(ϕ use)(120deg): 1352.85 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 38.7 deg,38.9 deg

C0-180 — C90-270 —

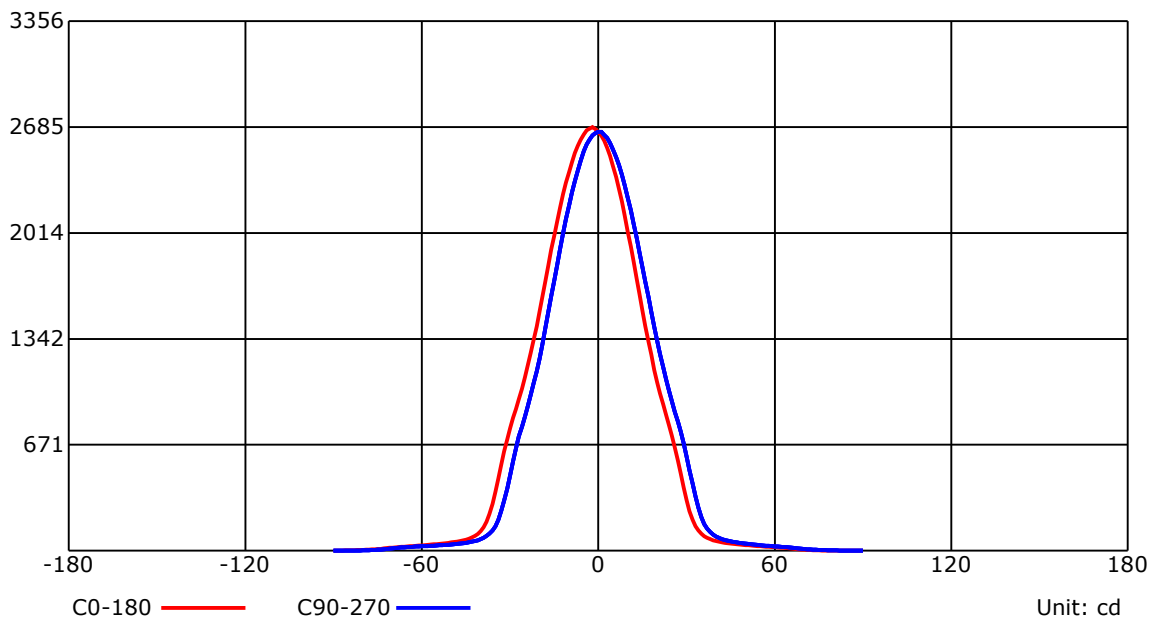
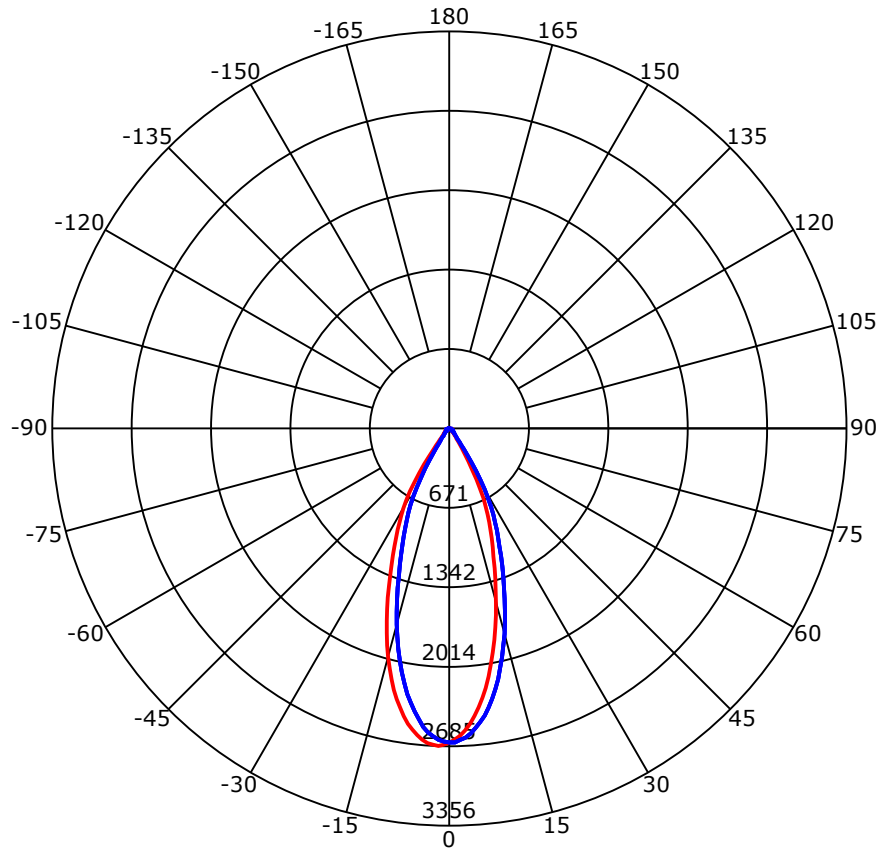
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/10/27 14:24:42

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



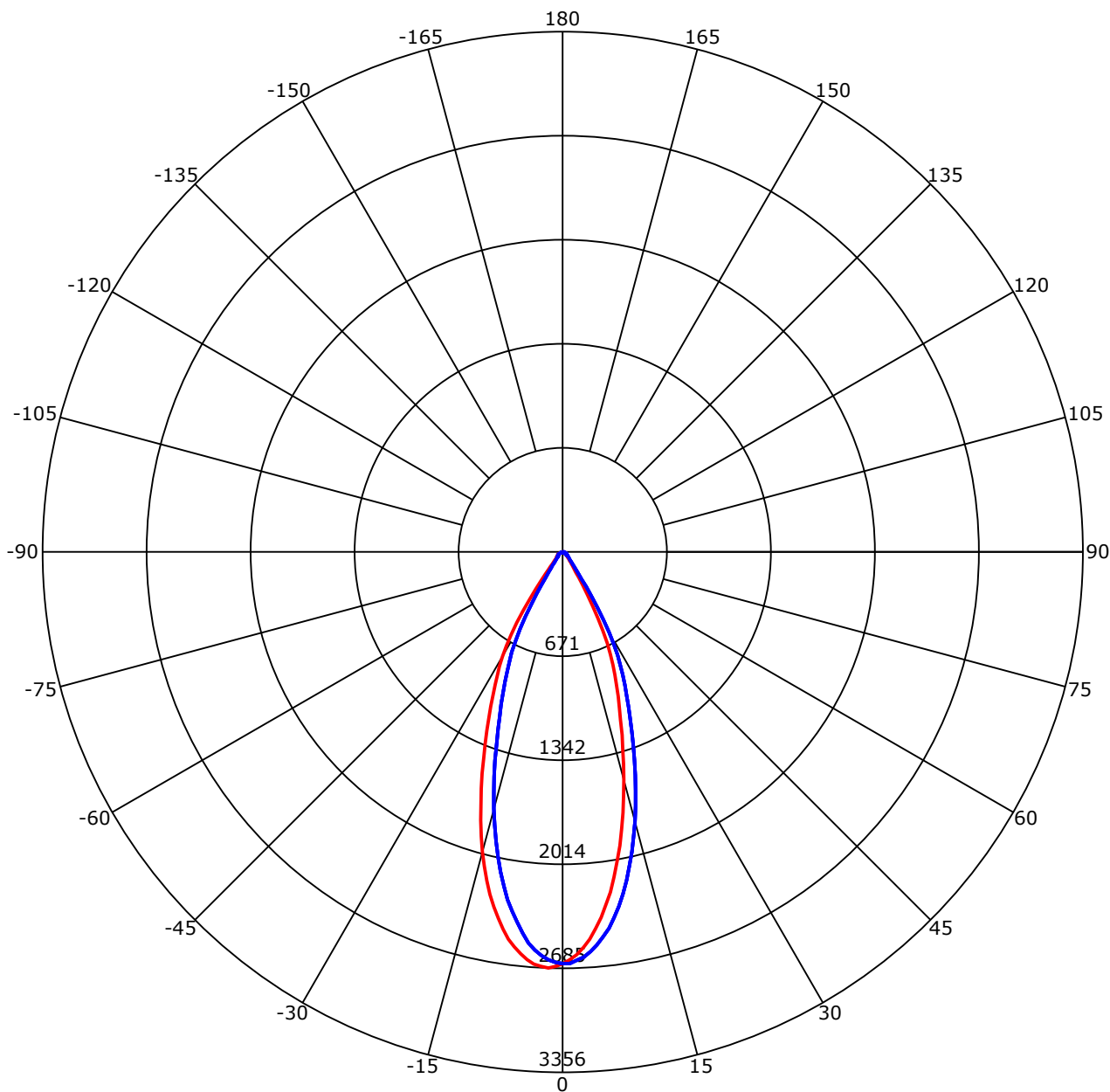
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Test Speed: High
Temperature: 25
Operators: QC01
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Luminous Intensity Distribution Curve



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: 2024/10/27 14:24:42

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

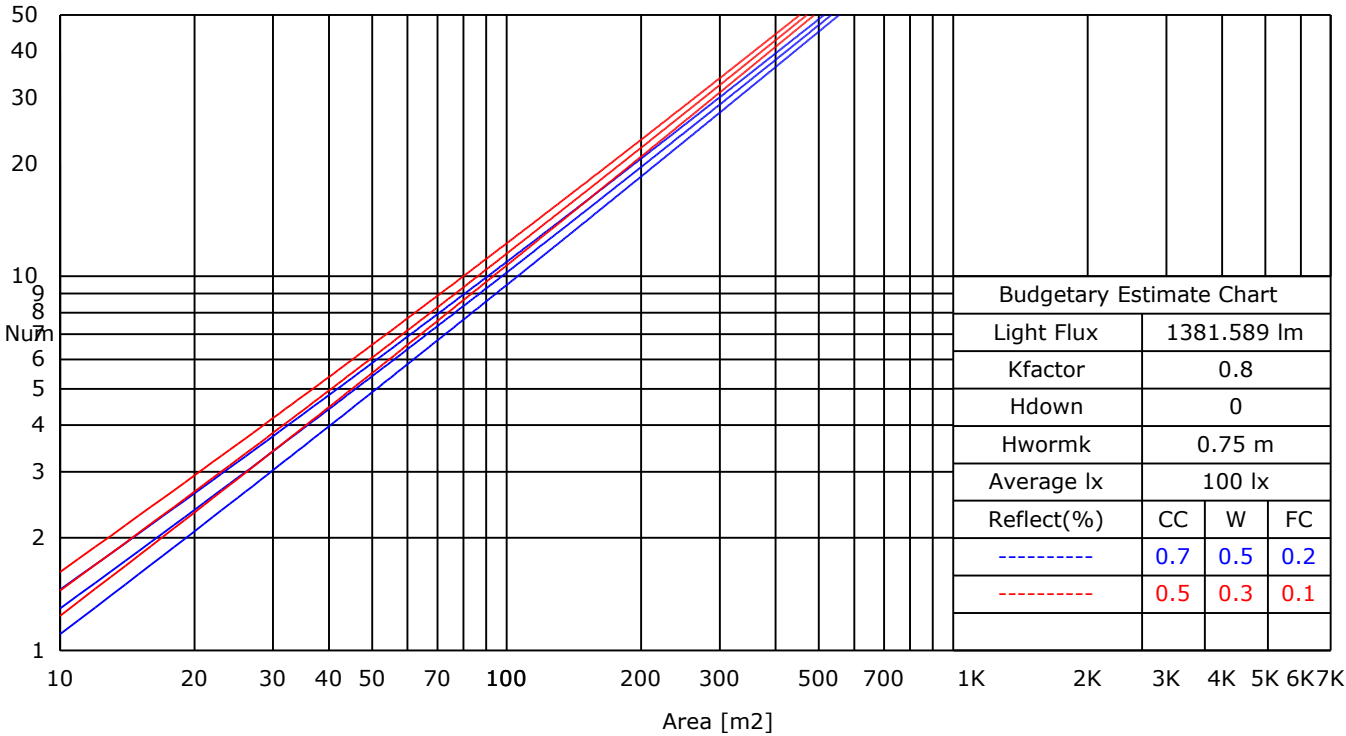
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UTILIZATION FACTORS TABLE

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	1.01	0.99	0.97	1.00	0.97	0.95	0.96	0.94	0.91	0.92	0.89	0.87	0.86	0.83	0.80	0.75
2	0.96	0.94	0.93	0.95	0.93	0.91	0.93	0.90	0.87	0.89	0.85	0.83	0.83	0.80	0.77	0.73
3	0.93	0.91	0.89	0.92	0.89	0.88	0.89	0.86	0.84	0.86	0.82	0.79	0.81	0.78	0.74	0.70
4	0.89	0.88	0.86	0.88	0.86	0.85	0.86	0.83	0.81	0.83	0.79	0.76	0.79	0.75	0.72	0.68
5	0.86	0.85	0.84	0.85	0.83	0.82	0.83	0.80	0.78	0.80	0.77	0.74	0.77	0.73	0.70	0.66
6	0.84	0.82	0.81	0.83	0.81	0.79	0.81	0.78	0.76	0.78	0.74	0.72	0.75	0.71	0.67	0.64
7	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
8	0.79	0.78	0.77	0.78	0.76	0.75	0.76	0.73	0.71	0.74	0.70	0.68	0.71	0.67	0.64	0.60
9	0.77	0.76	0.75	0.76	0.74	0.73	0.74	0.71	0.70	0.72	0.68	0.66	0.69	0.65	0.62	0.59
10	0.75	0.74	0.73	0.74	0.72	0.71	0.72	0.70	0.68	0.70	0.67	0.64	0.68	0.64	0.61	0.57

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



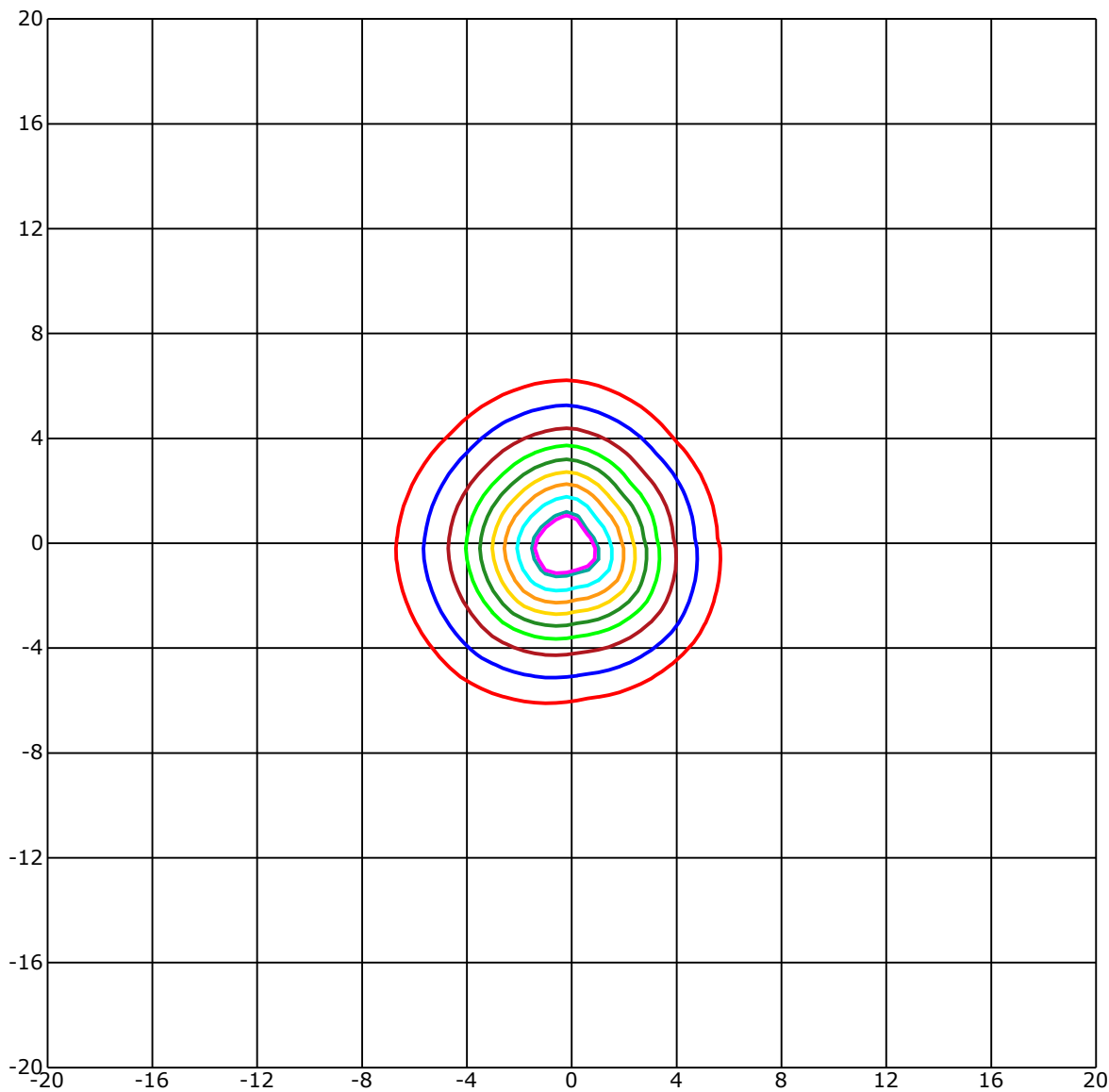
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/10/27 14:24:42

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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ISOLX DIAGRAM



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

- | | |
|-----------------|----------------|
| 24.656(92%Emax) | 13.4(50%Emax) |
| 24.12(90%Emax) | 10.72(40%Emax) |
| 21.44(80%Emax) | 8.04(30%Emax) |
| 18.76(70%Emax) | 5.36(20%Emax) |
| 16.08(60%Emax) | 2.68(10%Emax) |

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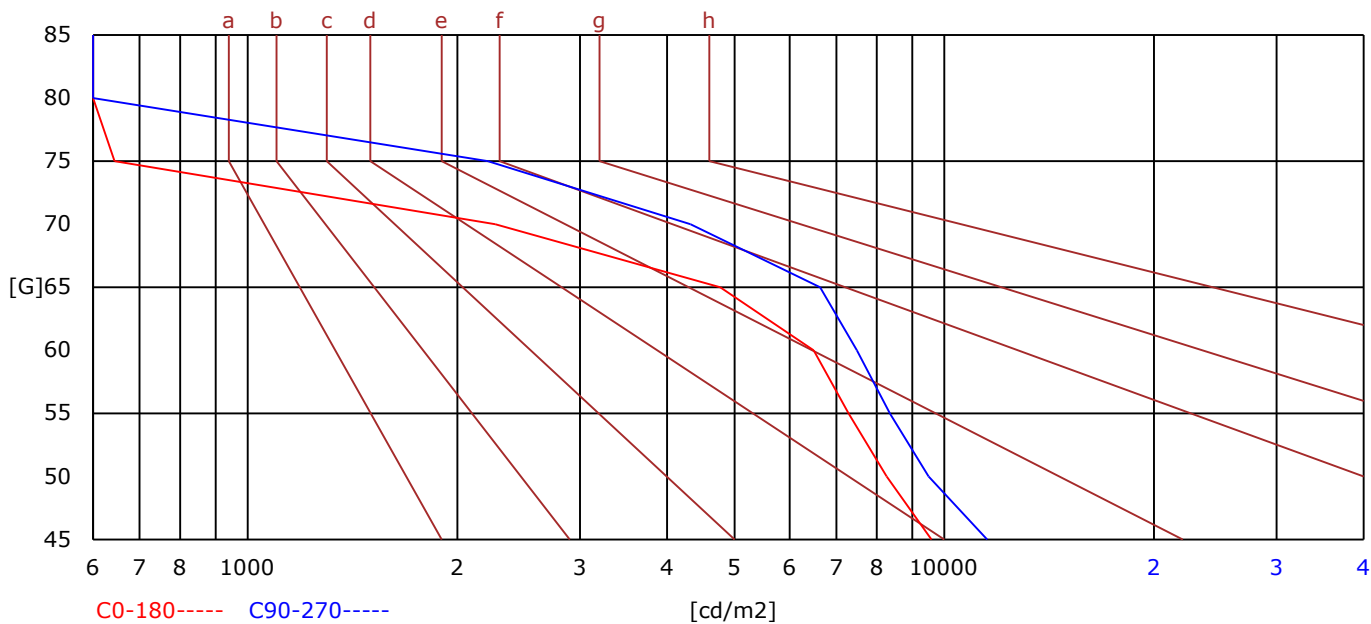
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Humidity: 60
Test Distance: 6.81 m
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	9582	8263	7290	6493	4767	2267	644	0	0
C90	11529	9492	8351	7493	6636	4322	2212	209	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



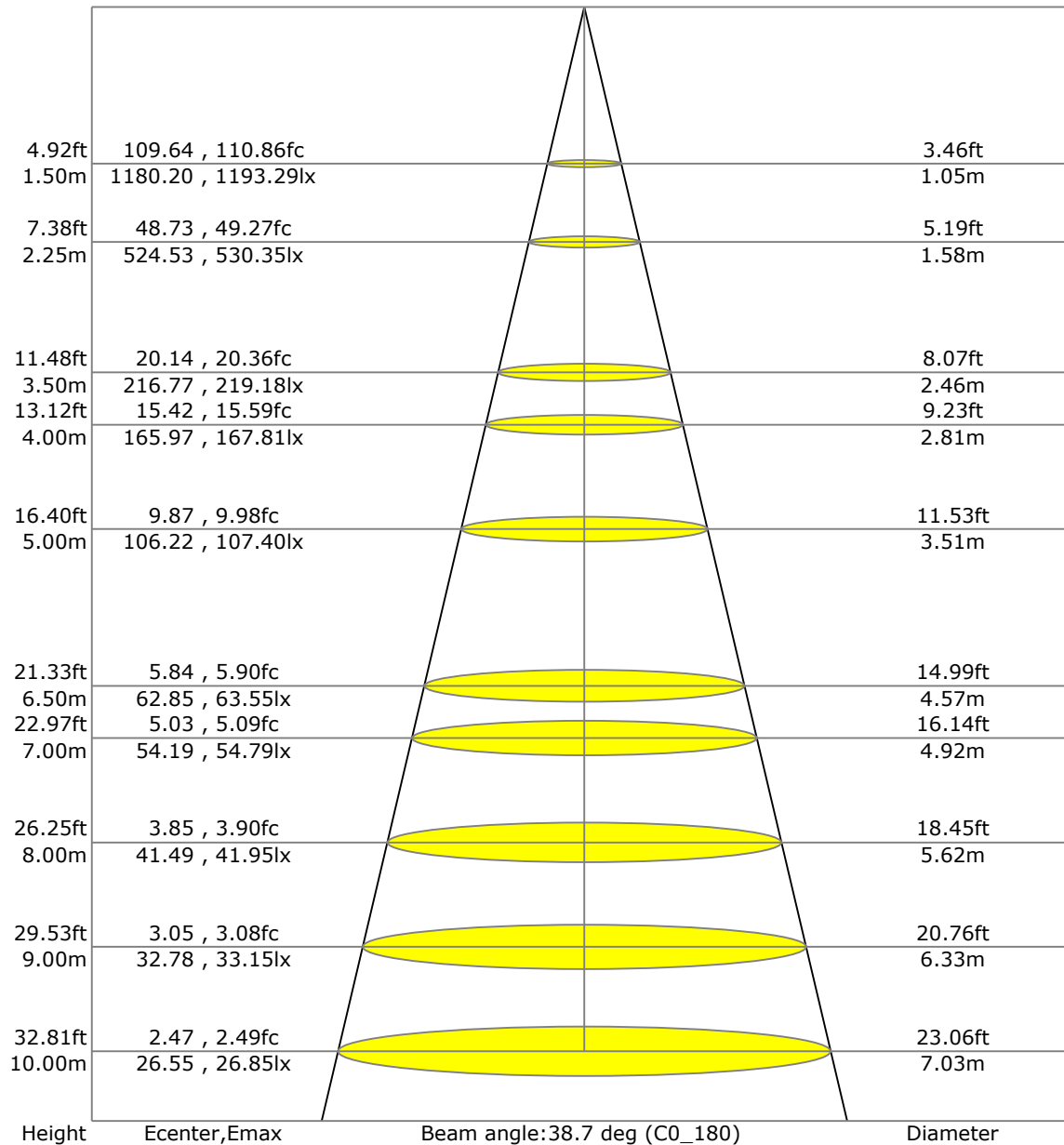
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C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/10/27 14:24:42

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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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 14:24:42

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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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	8.36	8.41	8.56	8.60	8.84	8.68	8.73	8.88	8.92	9.16
	3H	8.39	8.44	8.59	8.63	8.88	8.69	8.74	8.90	8.94	9.18
	4H	8.38	8.43	8.59	8.63	8.88	8.68	8.73	8.89	8.93	9.18
	6H	8.36	8.41	8.58	8.62	8.87	8.66	8.71	8.88	8.92	9.17
	8H	8.35	8.41	8.57	8.61	8.86	8.65	8.71	8.87	8.91	9.16
	12H	8.34	8.40	8.57	8.60	8.86	8.64	8.70	8.86	8.90	9.16
4H	2H	8.90	8.96	9.11	9.15	9.40	9.53	9.59	9.74	9.78	10.03
	3H	8.93	8.99	9.15	9.19	9.45	9.54	9.60	9.76	9.80	10.06
	4H	8.92	8.97	9.15	9.18	9.44	9.52	9.58	9.75	9.79	10.05
	6H	8.90	8.95	9.13	9.17	9.43	9.50	9.55	9.74	9.77	10.04
	8H	8.88	8.93	9.13	9.16	9.43	9.49	9.54	9.73	9.77	10.03
	12H	8.87	8.92	9.12	9.15	9.42	9.48	9.52	9.72	9.76	10.03
8H	4H	8.88	8.93	9.10	9.14	9.39	9.56	9.61	9.78	9.82	10.07
	6H	8.86	8.91	9.11	9.14	9.42	9.52	9.57	9.77	9.80	10.08
	8H	8.84	8.89	9.10	9.13	9.41	9.50	9.55	9.76	9.79	10.07
	12H	8.83	8.87	9.10	9.12	9.40	9.49	9.53	9.75	9.78	10.06
12H	4H	8.87	8.92	9.12	9.15	9.42	9.54	9.59	9.79	9.82	10.09
	6H	8.84	8.89	9.10	9.13	9.41	9.51	9.56	9.78	9.80	10.08

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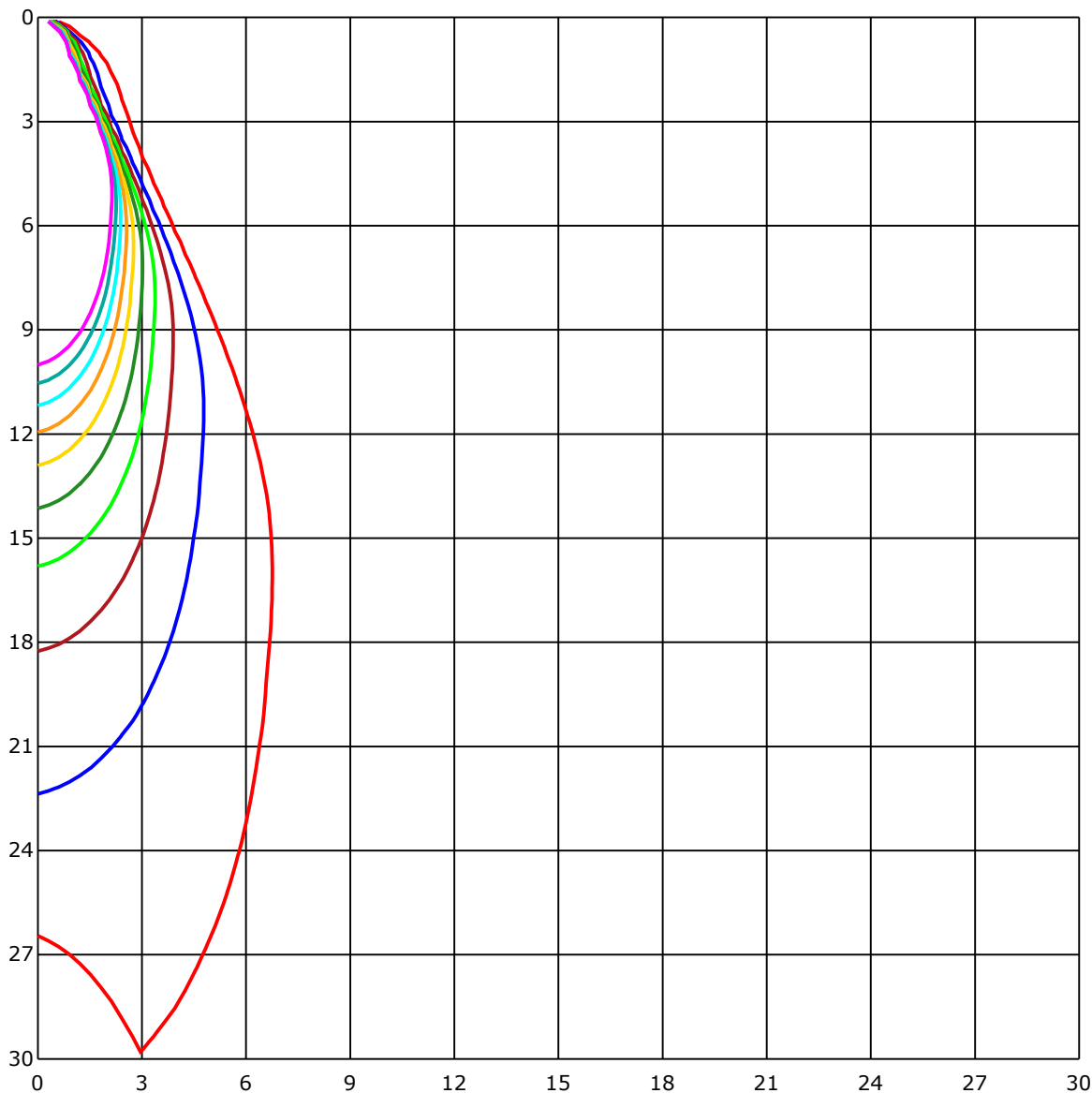
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

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SPACE ISOLX DIAGRAM



Unit of illumination:lx

26.549	13.275
23.894	10.62
21.239	7.965
18.584	5.31
15.929	2.655

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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	2655.45	2631.15	2654.01	2671.82	2655.45	2631.15	2654.01	2671.82	2655.45	
G1	2629.99	2591.59	2654.57	2665.75	2672.84	2644.69	2646.96	2670.24	2629.99	
G2	2598.5	2554.16	2633.7	2647.7	2684.9	2659.72	2632.17	2656.24	2598.5	
G3	2553.51	2500.69	2615.33	2632.35	2675.9	2663.01	2606.48	2633.1	2553.51	
G4	2502.45	2445.69	2583.38	2592.52	2664.12	2654.01	2574.52	2597.9	2502.45	
G5	2437.62	2372.65	2542.48	2553.1	2638.43	2641.12	2532.88	2558.06	2437.62	
G6	2369.08	2299.23	2494.43	2502.32	2604.62	2604.81	2470.46	2506.54	2369.08	
G7	2291.26	2224.15	2444.58	2442.91	2565.29	2567.2	2407.57	2452.32	2291.26	
G8	2214.88	2142.25	2382.11	2380.11	2521.52	2530.14	2341.53	2384.66	2214.88	
G9	2120.87	2050.75	2314.21	2318.53	2461.74	2475.28	2271.73	2313.43	2120.87	
G10	2024.18	1966.12	2238.85	2247.25	2398.48	2415.41	2187.24	2225.96	2024.18	
G11	1928.64	1864.64	2156.81	2171.56	2331.05	2340.18	2100.47	2145.5	1928.64	
G12	1828.89	1766.14	2068.75	2081.04	2258.19	2269.97	2009.62	2056.69	1828.89	
G13	1725.38	1667.5	1984.02	1994.87	2176.11	2185.43	1914.92	1965.23	1725.38	
G14	1625.07	1568.21	1889.64	1898.04	2088.18	2097.82	1813.07	1866.87	1625.07	
G15	1522.99	1478.56	1799.16	1804.73	2000.06	2006.23	1715.5	1764.05	1522.99	
G16	1422.12	1386.6	1704.14	1712.02	1906.94	1908.19	1612.5	1661.61	1422.12	
G17	1326.5	1295.89	1609.67	1616.25	1807.42	1808.85	1511.54	1560.14	1326.5	
G18	1241.91	1212.87	1512.79	1514.64	1708.31	1714.39	1412.48	1463.17	1241.91	
G19	1144.98	1126.89	1418.6	1419.39	1613.66	1605.91	1311.33	1365.41	1144.98	
G20	1068.64	1049.82	1331.46	1327.7	1518.72	1504.86	1218.67	1268.06	1068.64	
G21	997.46	978.91	1246.87	1240.05	1421.71	1403.67	1136.31	1186.39	997.46	
G22	928.22	918.9	1163.72	1160.75	1333.68	1313.74	1059.18	1112.15	928.22	
G23	861.58	852.25	1086.04	1088.03	1252.06	1226.51	986.05	1032.38	861.58	
G24	796.46	789.97	1014.85	1015.96	1174.61	1146.42	915.0	958.64	796.46	
G25	729.17	723.79	948.53	946.77	1097.95	1069.94	848.4	893.02	729.17	
G26	655.53	652.28	881.01	883.97	1028.02	1003.3	785.52	824.8	655.53	
G27	570.75	571.31	817.61	824.57	959.43	940.41	723.93	755.93	570.75	
G28	487.27	487.41	753.84	759.64	897.79	876.97	648.71	679.22	487.27	
G29	401.06	403.61	680.38	685.9	842.1	811.58	567.13	594.36	401.06	
G30	320.18	326.49	597.09	604.23	777.96	747.91	480.32	504.43	320.18	
G31	249.92	256.32	510.14	518.39	706.63	674.4	394.99	416.18	249.92	
G32	195.34	199.19	424.11	431.11	628.67	593.1	318.09	332.89	195.34	
G33	155.04	156.38	343.65	349.44	543.9	508.37	251.36	263.32	155.04	
G34	127.44	127.67	272.0	275.24	456.67	424.57	196.26	206.84	127.44	
G35	107.27	107.55	213.7	213.1	372.96	345.27	155.17	166.95	107.27	
G36	92.38	92.71	169.88	165.66	296.58	275.15	127.72	138.99	92.38	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	81.11	80.51	140.06	131.62	231.65	218.52	107.82	119.51	81.11	
G38	72.9	71.84	117.98	108.43	182.4	175.72	92.89	104.44	72.9	
G39	66.13	65.3	101.93	92.06	148.5	145.81	81.48	92.98	66.13	
G40	60.98	60.24	90.02	80.14	123.5	123.59	72.67	85.15	60.98	
G41	56.72	55.98	81.2	71.47	105.97	106.2	66.09	77.36	56.72	
G42	53.15	52.36	74.11	65.2	92.98	93.03	60.75	71.33	53.15	
G43	50.04	49.07	68.36	59.96	83.01	82.78	56.49	66.6	50.04	
G44	47.16	45.96	63.63	55.88	75.69	75.13	53.01	62.56	47.16	
G45	44.8	43.36	59.5	52.17	69.84	69.43	50.13	58.9	44.8	
G46	42.99	41.32	55.74	49.3	65.11	64.51	47.03	55.79	42.99	
G47	41.04	39.14	52.64	45.96	61.12	60.52	44.8	53.15	41.04	
G48	39.33	37.29	49.62	43.45	57.88	57.23	42.85	50.6	39.33	
G49	37.43	35.62	46.89	41.18	54.82	54.12	41.18	48.18	37.43	
G50	35.8	33.99	44.43	39.05	52.36	51.62	39.61	46.33	35.8	
G51	34.18	32.37	42.3	37.1	49.95	49.3	37.98	44.34	34.18	
G52	32.65	30.89	40.49	35.43	47.63	46.93	36.64	42.67	32.65	
G53	31.03	29.45	38.58	33.72	45.91	45.22	35.2	41.0	31.03	
G54	29.73	28.1	36.73	32.28	43.73	43.45	34.09	39.7	29.73	
G55	28.2	26.76	35.06	30.65	41.83	41.88	32.93	38.21	28.2	
G56	26.99	25.6	33.34	29.03	40.3	40.49	31.91	36.78	26.99	
G57	25.79	24.44	31.91	27.59	38.49	38.82	30.79	35.29	25.79	
G58	24.67	23.23	30.33	26.39	36.87	37.47	29.87	33.81	24.67	
G59	23.33	21.94	28.99	25.23	35.2	36.13	28.89	32.51	23.33	
G60	22.21	20.78	27.45	23.98	33.81	34.92	28.06	31.16	22.21	
G61	21.1	19.39	26.3	22.77	32.32	33.53	26.81	29.96	21.1	
G62	19.66	17.99	24.81	21.47	30.93	32.37	25.97	28.61	19.66	
G63	18.32	16.46	23.51	20.5	29.54	31.12	25.09	27.59	18.32	
G64	16.7	14.98	21.98	19.11	28.29	29.96	23.79	26.16	16.7	
G65	15.03	12.89	20.64	17.95	26.9	28.57	22.68	24.81	15.03	
G66	13.12	10.57	18.78	16.37	25.6	27.45	21.24	23.23	13.12	
G67	10.53	8.16	17.11	14.89	24.16	26.2	20.03	21.61	10.53	
G68	8.25	6.91	14.93	13.31	22.86	24.95	18.27	19.8	8.25	
G69	7.1	5.89	12.48	11.59	21.19	23.51	16.7	17.81	7.1	
G70	6.12	4.96	10.81	9.46	19.66	22.08	14.7	15.26	6.12	
G71	5.05	4.03	9.65	7.65	17.99	20.31	12.43	12.61	5.05	
G72	4.36	3.25	8.53	6.54	16.28	18.64	9.88	11.18	4.36	
G73	3.52	2.41	7.51	5.52	13.77	16.74	8.12	10.06	3.52	

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/10/27 14:24:42

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

Test Time: 2024/10/27 14:24:42

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

[illegible]

Remarks: