

Report No.:

Test Time: 2024/6/28 10:23:05

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
 Luminaire Type: IBSP100CT075H69-24°-10W
 Lamp Type:
 Luminous Width: 64 mm
 Luminous Length: 64 mm
 Luminous Height: 65 mm

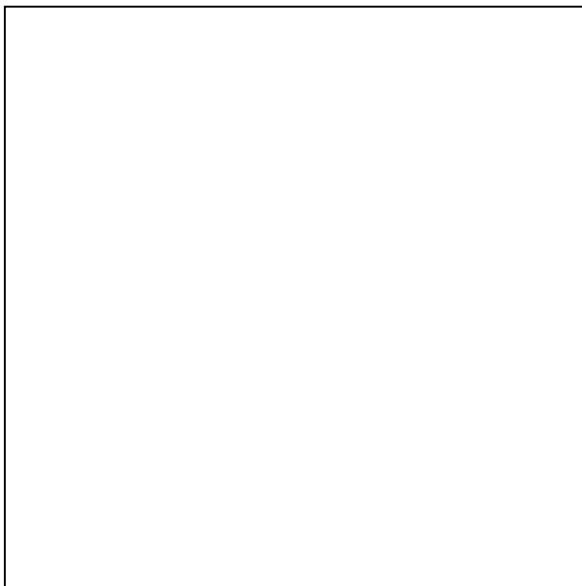
Voltage(V): 218.90 V
 Current(A): 0.0550 A
 Power(W): 11.18 W
 Power Factor: 0.9240
 Lamp Luminous Flux: 1115.63

Photometric Results

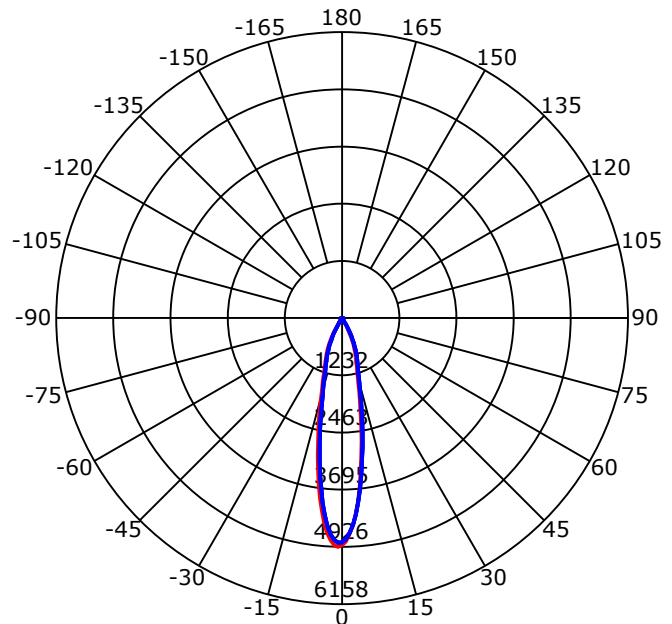
CIE Class: Direct
 Luminaire Luminous Flux: 1115.63 lm
 Downward Ratio: 100.00%
 Luminaire Efficacy Rating(LER): 99.79 lm/W
 Beam Angle(50%) C0-180,C90-270: 21.7,21.6
 Field Angle(10%) C0-180,C90-270: 53.3,53.4
 S/MH C0-180,C90-270: 0.389,0.389

Max. Intensity: 4926.18 cd
 Max.Intensity Angle: C=180 Gamma=1
 Upward Ratio: 0.00%
 Efficacy: 100.00%
 Center Intensity: 4894.76 cd
 Effective Luminous Flux: 991.16 lm
 ERP(φ use)(120deg): 1113.98 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 21.7 deg,21.6 deg

C0-180 — C90-270 —

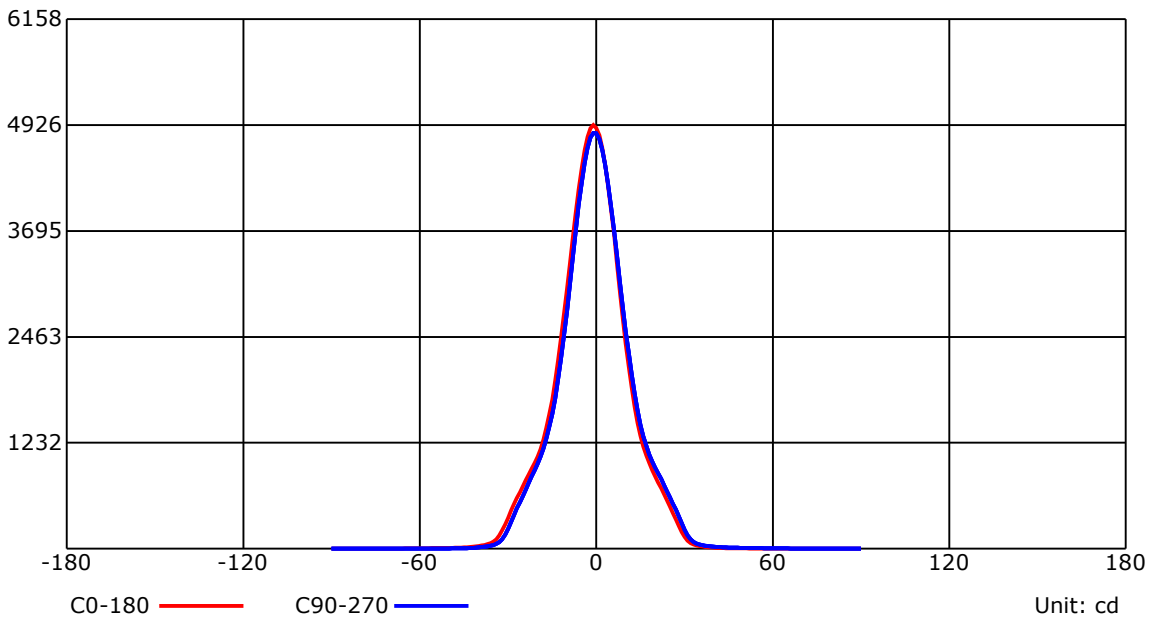
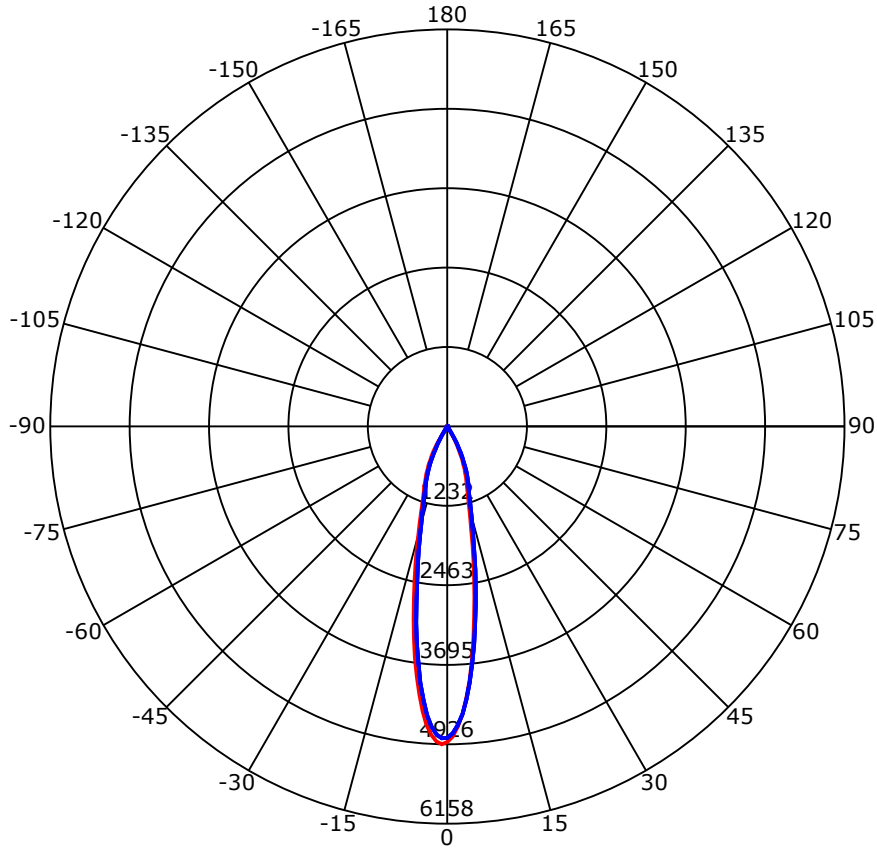
C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 25
 Operators: QC01
 Test Date: 2024/6/28 10:23:05

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



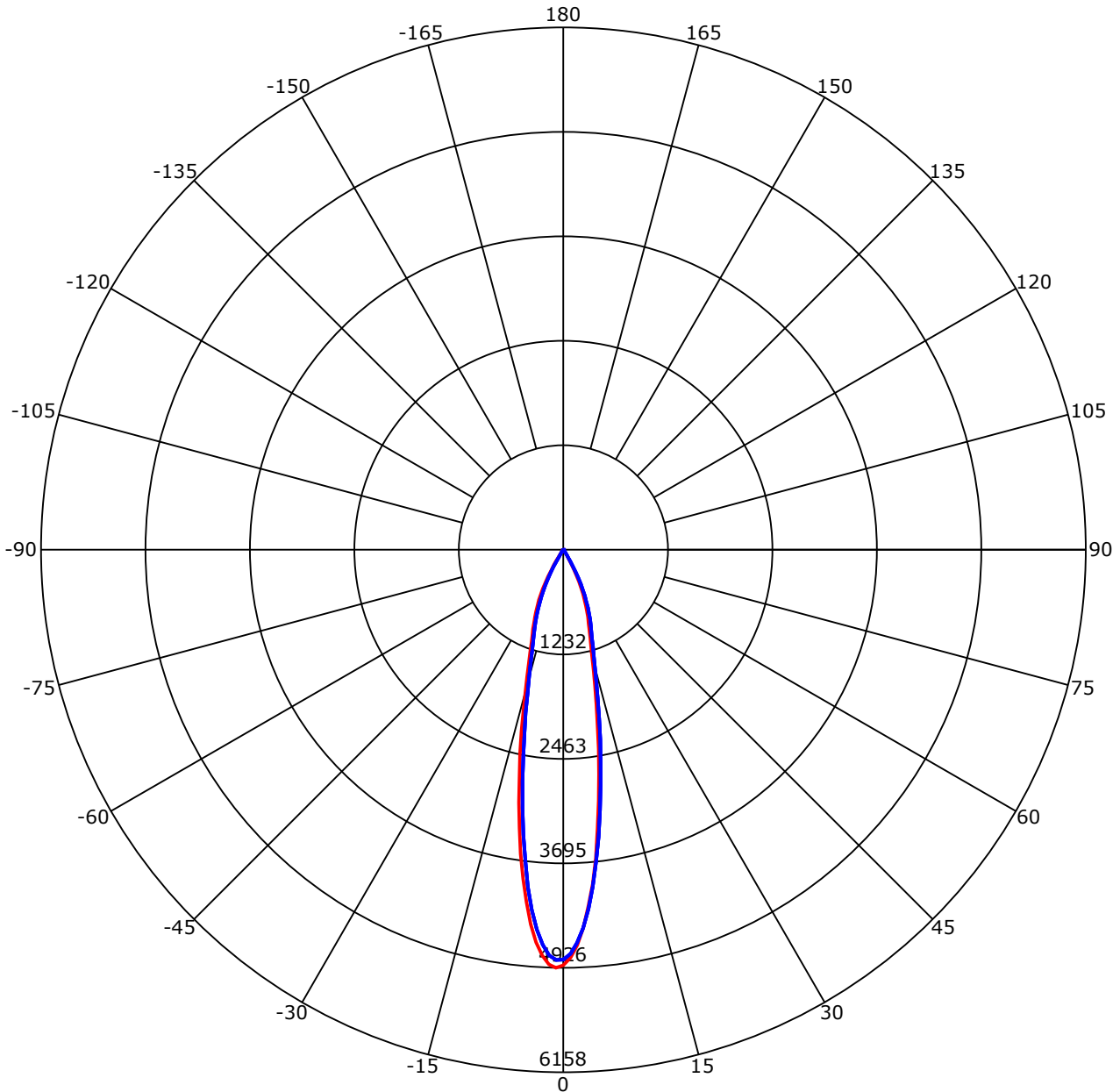
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 Humidity: 60
 Test Distance: 6.7 m
 Remarks:

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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: 2024/6/28 10:23:05

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

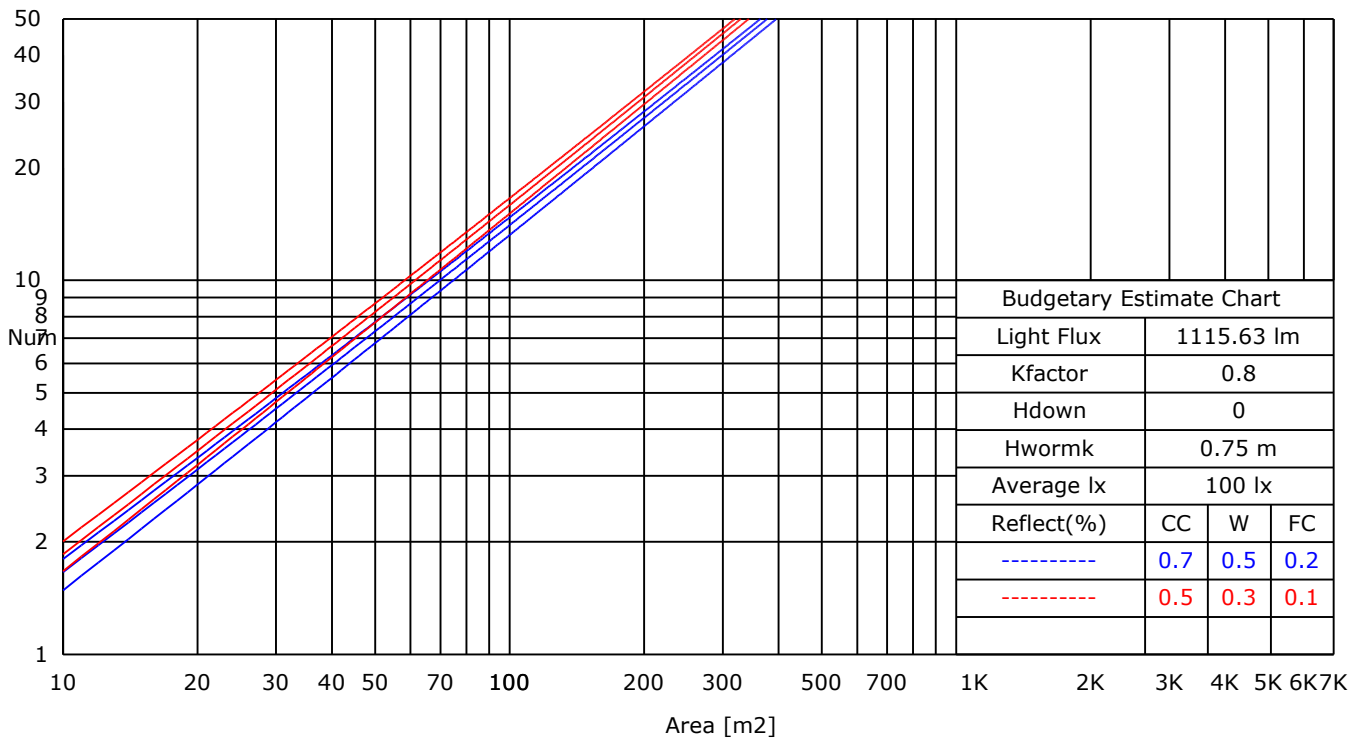
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UTILIZATION FACTORS TABLE

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	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	0.89	0.86	0.83	0.89	0.85	0.82	0.86	0.82	0.79	0.83	0.79	0.75	0.78	0.73	0.70	0.64
2	0.85	0.82	0.80	0.85	0.81	0.79	0.83	0.79	0.76	0.80	0.75	0.72	0.75	0.71	0.67	0.62
3	0.82	0.80	0.78	0.82	0.79	0.77	0.80	0.76	0.73	0.78	0.73	0.70	0.74	0.69	0.65	0.61
4	0.80	0.78	0.77	0.80	0.77	0.75	0.78	0.74	0.72	0.76	0.71	0.68	0.73	0.68	0.64	0.60
5	0.78	0.76	0.75	0.78	0.75	0.73	0.76	0.73	0.70	0.74	0.70	0.67	0.71	0.66	0.63	0.59
6	0.77	0.75	0.74	0.76	0.74	0.72	0.75	0.71	0.69	0.72	0.68	0.65	0.70	0.65	0.61	0.58
7	0.75	0.73	0.72	0.74	0.72	0.71	0.73	0.70	0.67	0.71	0.67	0.64	0.69	0.64	0.60	0.57
8	0.74	0.72	0.71	0.73	0.71	0.70	0.71	0.68	0.66	0.70	0.66	0.63	0.67	0.63	0.59	0.56
9	0.72	0.71	0.70	0.72	0.70	0.68	0.70	0.67	0.65	0.68	0.64	0.62	0.66	0.62	0.58	0.55
10	0.71	0.70	0.69	0.70	0.69	0.67	0.69	0.66	0.64	0.67	0.63	0.61	0.65	0.61	0.57	0.54

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



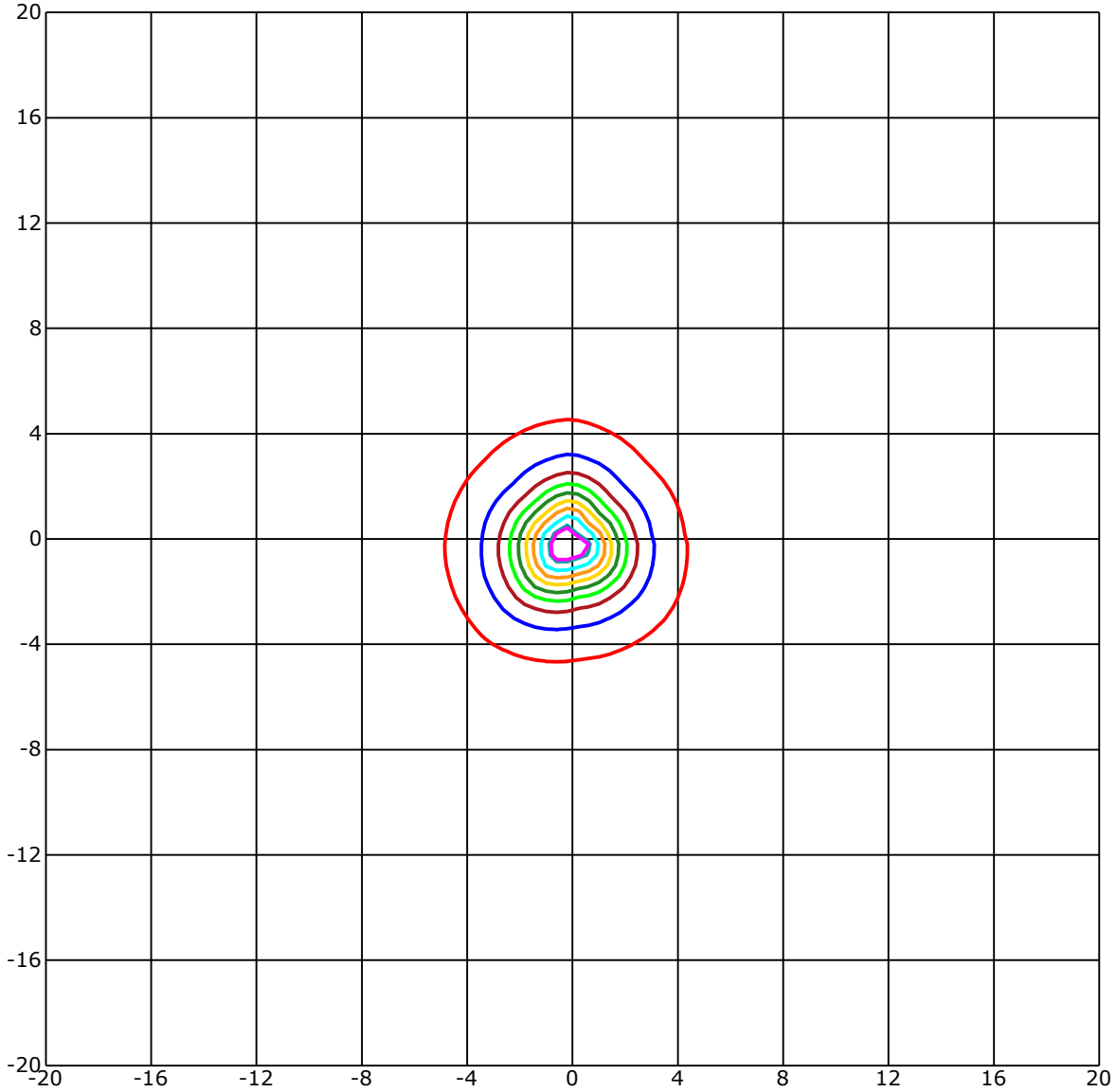
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G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1600B Goniophotometer
 Humidity: 60
 Test Distance: 6.7 m
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ISOLX DIAGRAM



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

- | | |
|-------------------|-------------------|
| — 45.3(92%Emax) | — 24.62(50%Emax) |
| — 44.315(90%Emax) | — 19.696(40%Emax) |
| — 39.391(80%Emax) | — 14.772(30%Emax) |
| — 34.468(70%Emax) | — 9.848(20%Emax) |
| — 29.544(60%Emax) | — 4.924(10%Emax) |

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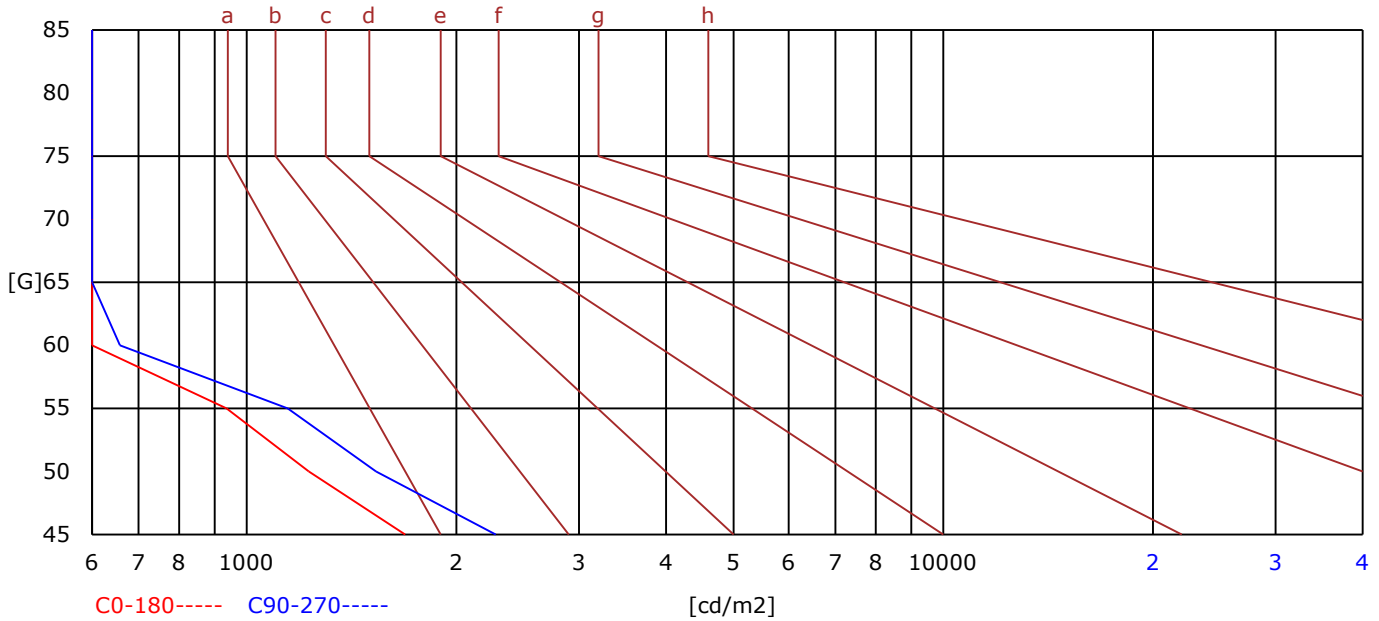
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	1689	1228	936	219	0	0	0	0	0
C90	2278	1534	1146	658	0	0	0	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



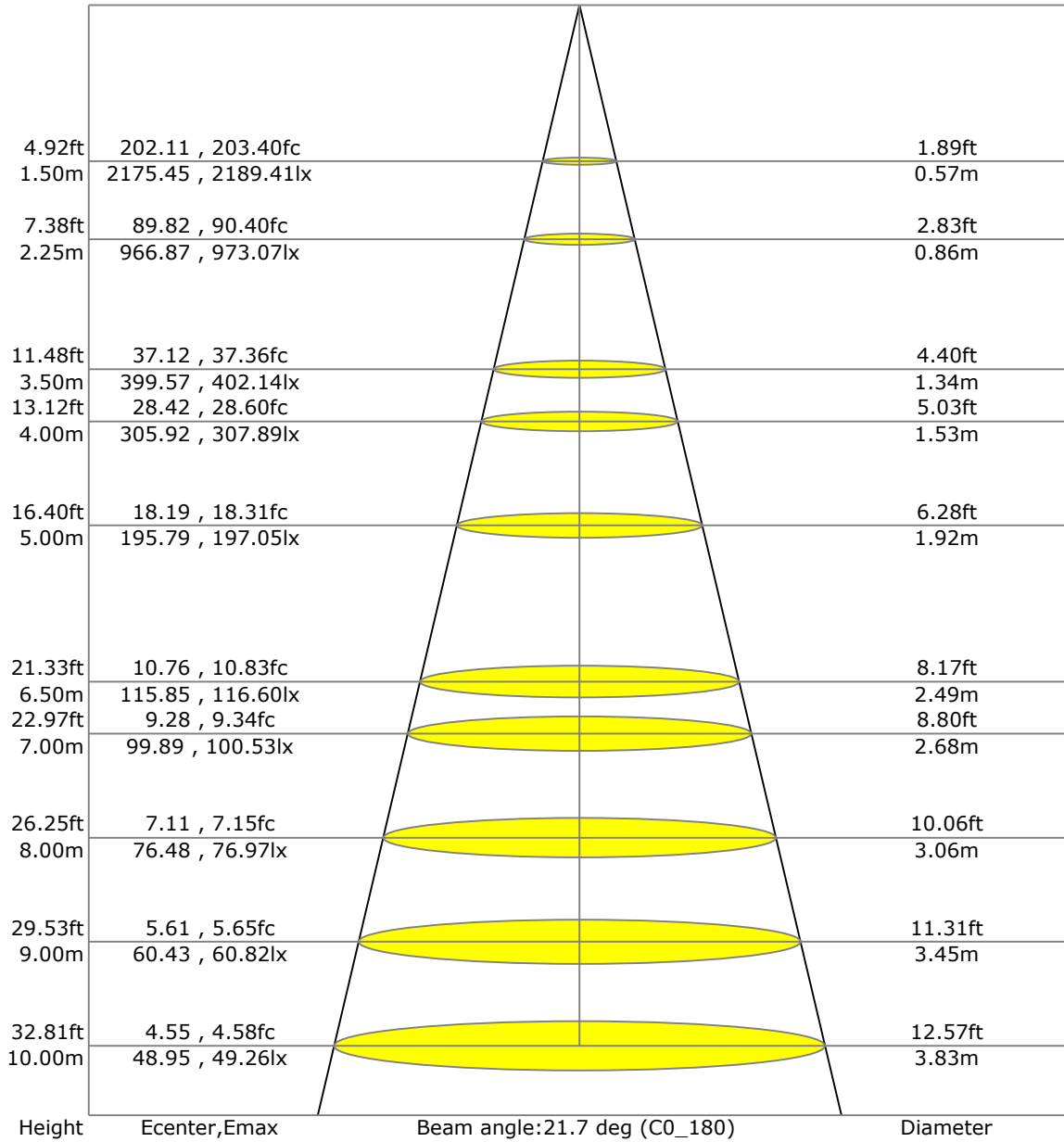
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G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1600B Goniophotometer
 Humidity: 60
 Test Distance: 6.7 m
 Remarks:

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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2024/6/28 10:23:05

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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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	Viewed Endwise					Viewed Crosswise				
2H 2H	1.33	1.38	1.52	1.57	1.81	1.33	1.38	1.52	1.57	1.81
3H	1.30	1.36	1.51	1.55	1.80	1.30	1.36	1.51	1.55	1.80
4H	1.29	1.35	1.50	1.54	1.79	1.29	1.35	1.50	1.54	1.79
6H	1.27	1.33	1.49	1.54	1.79	1.27	1.33	1.49	1.54	1.79
8H	1.27	1.33	1.49	1.53	1.78	1.27	1.33	1.49	1.53	1.78
12H	1.26	1.32	1.48	1.52	1.78	1.26	1.32	1.48	1.52	1.78
4H 2H	1.29	1.35	1.50	1.54	1.79	1.29	1.35	1.50	1.54	1.79
3H	1.26	1.32	1.48	1.52	1.78	1.26	1.32	1.48	1.52	1.78
4H	1.24	1.30	1.47	1.51	1.77	1.24	1.30	1.47	1.51	1.77
6H	1.22	1.28	1.46	1.50	1.76	1.22	1.28	1.46	1.50	1.76
8H	1.21	1.27	1.45	1.49	1.76	1.21	1.27	1.45	1.49	1.76
12H	1.19	1.25	1.44	1.48	1.76	1.19	1.25	1.44	1.48	1.76
8H 4H	1.27	1.33	1.49	1.53	1.78	1.27	1.33	1.49	1.53	1.78
6H	1.18	1.24	1.44	1.48	1.75	1.18	1.24	1.44	1.48	1.75
8H	1.16	1.22	1.43	1.47	1.75	1.16	1.22	1.43	1.47	1.75
12H	1.15	1.20	1.42	1.46	1.74	1.15	1.20	1.42	1.46	1.74
12H 4H	1.19	1.25	1.44	1.48	1.76	1.19	1.25	1.44	1.48	1.76
6H	1.16	1.22	1.43	1.47	1.75	1.16	1.22	1.43	1.47	1.75

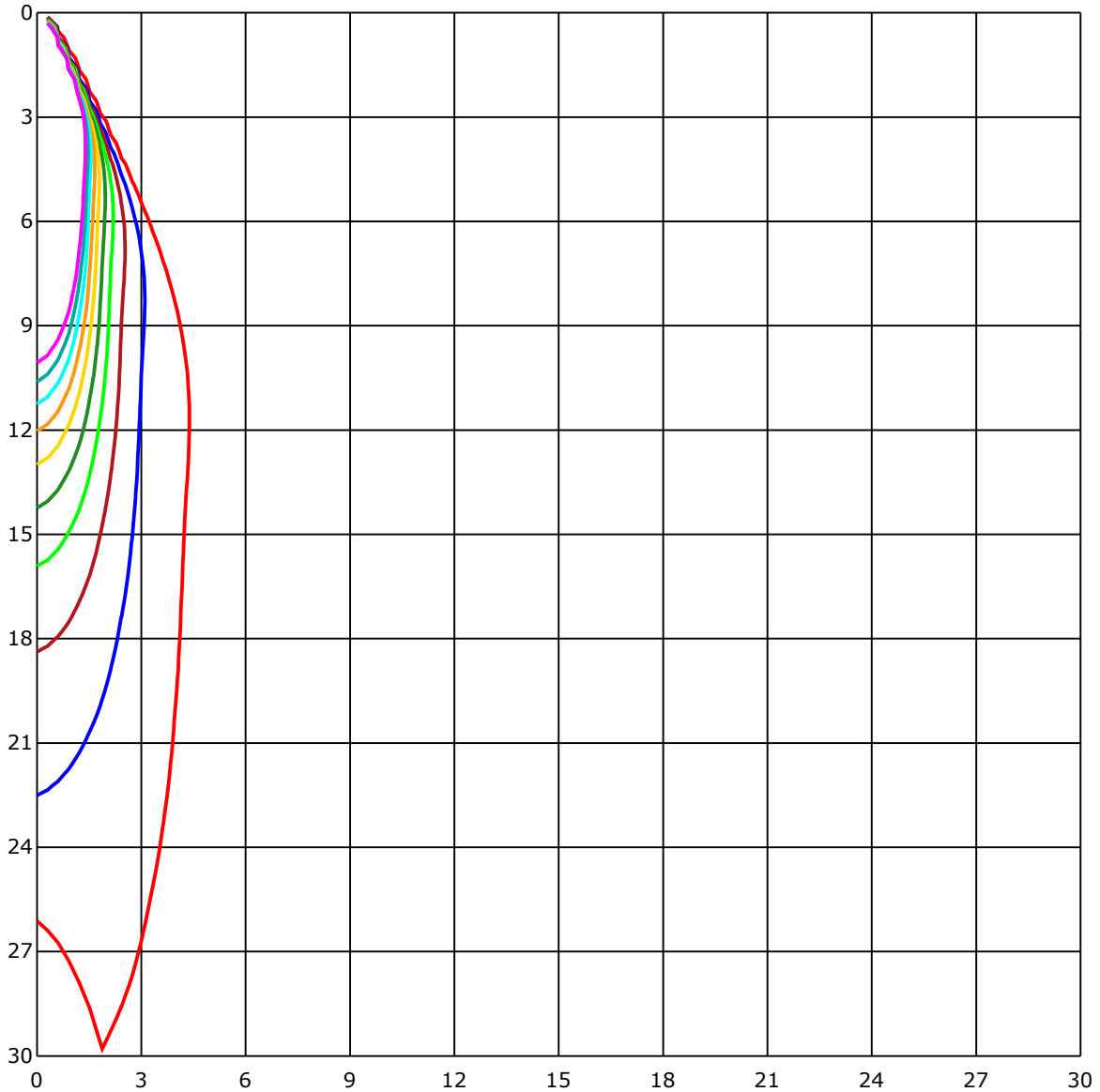
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SPACE ISOLX DIAGRAM



Unit of illumination:lx

- | | |
|----------|----------|
| — 48.322 | — 24.161 |
| — 43.49 | — 19.329 |
| — 38.658 | — 14.497 |
| — 33.826 | — 9.664 |
| — 28.993 | — 4.832 |

C Range: 0 - 360 Deg
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 G Interval: 1.0 Deg
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 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	4894.76	4652.94	4829.36	4843.59	4894.76	4652.94	4829.36	4843.59	4894.76	
G1	4807.58	4466.47	4761.89	4755.24	4926.18	4778.41	4834.52	4866.93	4807.58	
G2	4659.85	4241.75	4635.21	4612.0	4887.85	4862.53	4782.49	4823.21	4659.85	
G3	4466.47	3990.05	4462.38	4413.05	4787.61	4882.69	4662.23	4715.83	4466.47	
G4	4214.45	3694.67	4241.3	4170.33	4636.15	4828.1	4488.1	4551.22	4214.45	
G5	3952.16	3388.12	3987.85	3895.42	4430.37	4719.42	4260.73	4346.29	3952.16	
G6	3651.62	3078.2	3696.2	3605.07	4175.58	4550.86	3994.18	4088.18	3651.62	
G7	3305.57	2777.66	3408.05	3291.42	3905.61	4341.9	3690.36	3820.77	3305.57	
G8	2986.04	2496.6	3100.87	2994.21	3619.12	4095.4	3390.14	3506.22	2986.04	
G9	2679.53	2230.45	2811.55	2695.11	3316.74	3834.41	3077.7	3178.03	2679.53	
G10	2382.85	1979.2	2528.52	2407.18	3026.21	3539.35	2764.24	2858.37	2382.85	
G11	2108.57	1763.46	2272.87	2144.08	2721.19	3238.41	2470.43	2553.48	2108.57	
G12	1868.46	1572.05	2026.69	1906.7	2452.21	2939.26	2209.58	2278.44	1868.46	
G13	1649.71	1402.0	1806.55	1690.92	2194.36	2652.19	1972.38	2011.57	1649.71	
G14	1465.48	1262.44	1611.78	1510.14	1954.96	2387.43	1748.78	1786.35	1465.48	
G15	1313.89	1143.66	1441.19	1351.37	1737.69	2140.04	1566.75	1586.68	1313.89	
G16	1186.85	1044.41	1306.48	1219.08	1558.63	1909.53	1410.98	1415.16	1186.85	
G17	1080.86	965.4	1192.41	1111.25	1403.04	1707.75	1278.42	1282.42	1080.86	
G18	993.82	889.94	1092.26	1029.46	1267.33	1531.33	1163.23	1163.28	993.82	
G19	914.27	817.54	1014.11	959.97	1153.45	1381.27	1069.82	1062.41	914.27	
G20	842.72	741.4	943.9	900.49	1070.0	1255.17	988.84	983.63	842.72	
G21	772.38	669.76	879.62	839.35	997.68	1146.09	914.81	917.28	772.38	
G22	704.82	597.58	810.89	779.25	926.39	1048.18	839.44	850.31	704.82	
G23	633.94	531.32	738.44	713.98	861.21	970.34	763.0	783.2	633.94	
G24	563.37	457.43	667.11	647.81	796.03	888.01	684.84	714.65	563.37	
G25	491.05	384.35	598.74	577.73	727.31	814.17	611.27	639.5	491.05	
G26	418.82	309.07	527.01	506.22	656.74	736.51	540.21	569.61	418.82	
G27	341.16	237.33	455.5	434.76	588.51	663.25	468.88	496.75	341.16	
G28	265.97	171.48	377.97	357.59	519.15	591.96	389.96	418.29	265.97	
G29	195.41	118.02	298.61	280.74	442.84	524.45	308.93	338.65	195.41	
G30	136.96	80.89	222.16	206.22	360.15	450.65	232.62	258.97	136.96	
G31	92.74	58.49	158.28	144.23	282.49	372.5	164.07	188.4	92.74	
G32	64.78	43.68	110.52	96.83	212.28	293.85	109.94	132.07	64.78	
G33	49.06	34.12	80.4	66.3	152.99	220.54	75.37	94.49	49.06	
G34	37.98	27.61	61.77	49.24	109.76	160.26	55.48	71.78	37.98	
G35	30.48	22.98	49.74	37.84	82.55	114.33	42.47	57.55	30.48	
G36	25.59	19.44	41.07	30.44	64.28	85.43	34.16	48.17	25.59	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma/C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	21.23	16.3	35.46	25.36	51.76	66.93	28.68	41.3	21.23	
G38	17.55	13.38	30.75	21.68	42.78	53.64	24.15	36.0	17.55	
G39	14.45	11.27	26.89	18.14	36.41	44.31	20.16	31.2	14.45	
G40	11.81	9.34	23.61	15.13	31.33	37.57	16.56	26.66	11.81	
G41	9.7	7.68	20.42	12.34	26.31	32.23	13.15	22.4	9.7	
G42	8.3	6.82	17.82	10.28	22.53	27.56	10.28	18.85	8.3	
G43	6.91	5.93	15.85	8.66	19.21	23.57	8.13	16.21	6.91	
G44	5.97	5.3	14.36	7.59	16.74	19.75	6.55	14.28	5.97	
G45	5.16	4.89	13.15	6.6	14.86	17.15	5.66	12.66	5.16	
G46	4.53	4.31	12.03	5.79	13.33	14.77	4.8	11.58	4.53	
G47	4.13	3.86	11.18	5.07	12.03	13.24	4.17	10.41	4.13	
G48	3.73	3.68	10.5	4.71	11.13	11.72	3.59	9.7	3.73	
G49	3.41	3.64	9.92	4.35	10.23	10.82	3.32	8.71	3.41	
G50	3.14	3.23	9.29	4.04	9.47	9.92	2.83	8.17	3.14	
G51	2.87	2.96	8.71	3.73	8.93	9.34	2.74	7.5	2.87	
G52	2.56	2.83	8.35	3.55	8.39	8.66	2.51	7.14	2.56	
G53	2.47	2.6	7.81	3.1	7.81	8.26	2.38	6.73	2.47	
G54	2.2	2.42	7.54	3.01	7.5	7.59	2.02	6.37	2.2	
G55	1.89	2.2	7.14	2.69	6.96	7.14	1.93	5.88	1.89	
G56	1.53	1.75	6.6	2.47	6.73	6.87	1.71	5.7	1.53	
G57	1.17	1.35	6.24	2.29	6.11	6.37	1.3	5.07	1.17	
G58	1.08	1.03	5.75	1.98	5.84	6.02	1.17	4.76	1.08	
G59	0.72	0.76	5.39	1.66	5.3	5.61	0.72	4.35	0.72	
G60	0.58	0.45	5.12	1.35	4.8	5.3	0.72	4.0	0.58	
G61	0.27	0.18	4.58	0.99	4.53	4.8	0.4	3.59	0.27	
G62	0.13	0.0	4.0	0.76	4.35	4.31	0.04	3.37	0.13	
G63	0.0	0.0	3.73	0.58	3.68	3.91	0.0	3.05	0.0	
G64	0.0	0.0	3.46	0.31	3.41	3.77	0.0	2.6	0.0	
G65	0.0	0.0	2.92	0.0	3.01	3.37	0.0	2.29	0.0	
G66	0.0	0.0	2.06	0.0	2.74	3.19	0.0	1.84	0.0	
G67	0.0	0.0	1.3	0.0	2.15	2.74	0.0	1.26	0.0	
G68	0.0	0.0	0.85	0.0	1.62	2.38	0.0	0.94	0.0	
G69	0.0	0.0	0.81	0.0	1.03	1.66	0.0	0.83	0.0	
G70	0.0	0.0	0.54	0.0	0.72	1.17	0.0	0.72	0.0	
G71	0.0	0.0	0.49	0.0	0.63	0.9	0.0	0.63	0.0	
G72	0.0	0.0	0.54	0.0	0.72	0.72	0.0	0.54	0.0	
G73	0.0	0.0	0.45	0.0	0.54	0.67	0.0	0.58	0.0	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2024/6/28 10:23:05

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.7 m

Remarks:

Report No.:

Test Time: 2024/6/28 10:23:05

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360
G74	0.0	0.0	0.36	0.0	0.54	0.63	0.0	0.49	0.0
G75	0.0	0.0	0.18	0.0	0.22	0.45	0.0	0.4	0.0
G76	0.0	0.0	0.2	0.0	0.22	0.4	0.0	0.27	0.0
G77	0.0	0.0	0.22	0.0	0.31	0.29	0.0	0.27	0.0
G78	0.0	0.0	0.09	0.0	0.31	0.18	0.0	0.18	0.0
G79	0.0	0.0	0.09	0.0	0.29	0.13	0.0	0.13	0.0
G80	0.0	0.0	0.0	0.0	0.27	0.09	0.0	0.09	0.0
G81	0.0	0.0	0.0	0.0	0.09	0.04	0.0	0.0	0.0
G82	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0
G83	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0
G84	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G85	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G86	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G87	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G88	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G89	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 25
 Operators: QC01
 Test Date: 2024/6/28 10:23:05

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