

Report No.:

Test Time: 2025/7/17 10:48:34

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP150CT075H86-24°-8W
Lamp Type:
Luminous Width: 63 mm
Luminous Length: 63 mm
Luminous Height: 65 mm

Voltage(V): 219.80 V
Current(A): 0.0420 A
Power(W): 8.68 W
Power Factor: 0.9320
Lamp Luminous Flux: 708.56

Photometric Results

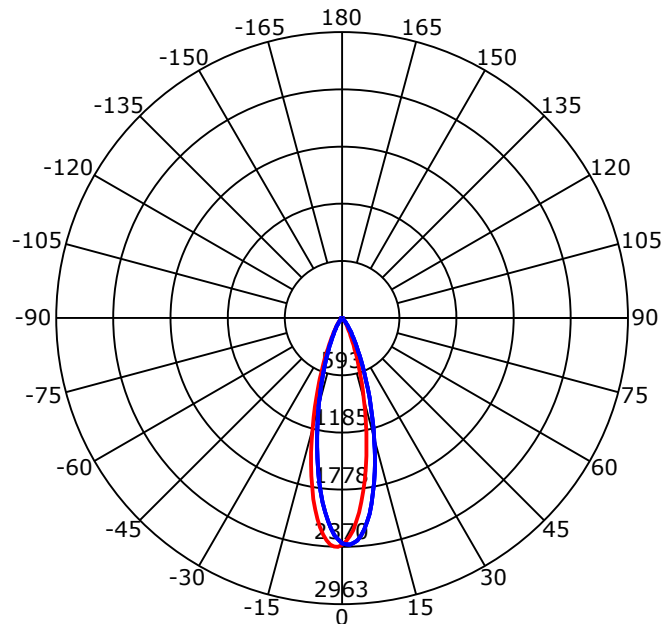
CIE Class: Direct
Luminaire Luminous Flux: 708.5601 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 81.67 lm/W
Beam Angle(50%) C0-180,C90-270: 27.2,28.7
Field Angle(10%) C0-180,C90-270: 52.6,56.0
S/MH C0-180,C90-270: 0.462,0.499

Max. Intensity: 2370.13 cd
Max.Intensity Angle: C=180 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 2350.45 cd
Effective Luminous Flux: 600.98 lm
ERP(ϕ use)(120deg): 704.94 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 27.2 deg,28.7 deg

C0-180 — C90-270 —

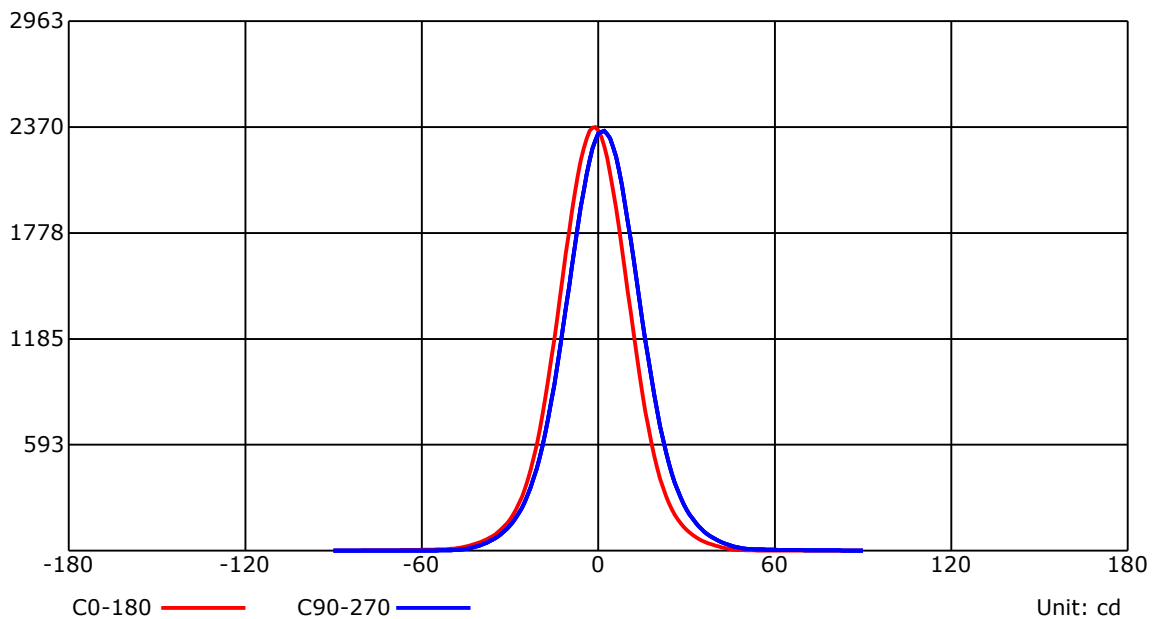
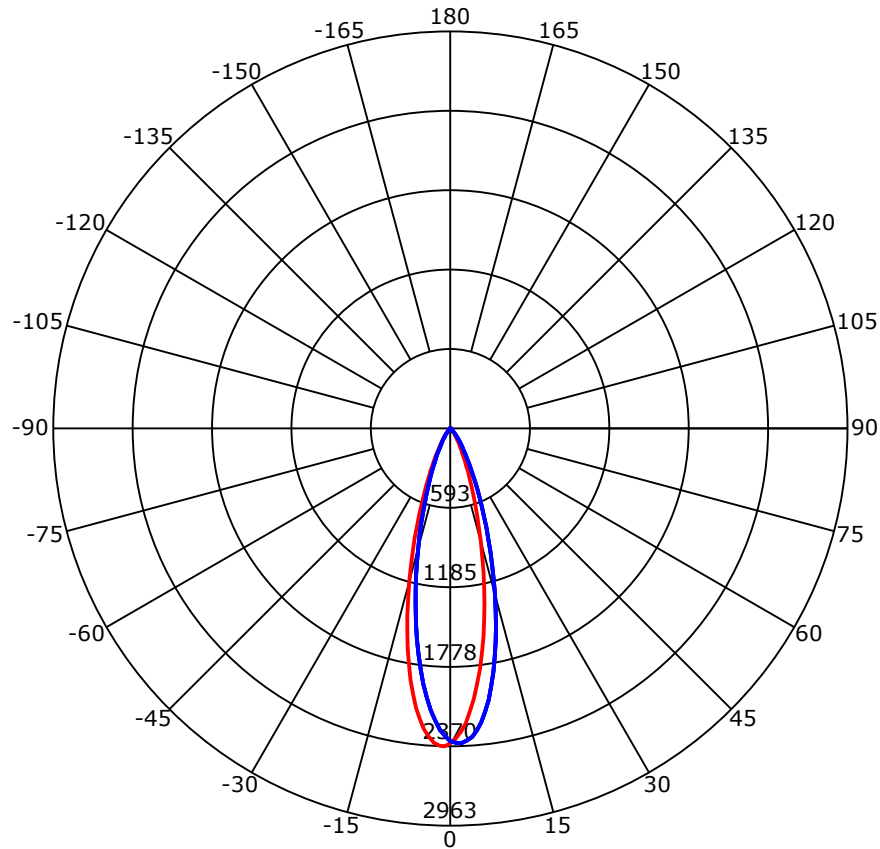
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/7/17 10:48:34

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

Report No.:

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Luminous Intensity Distribution Curve



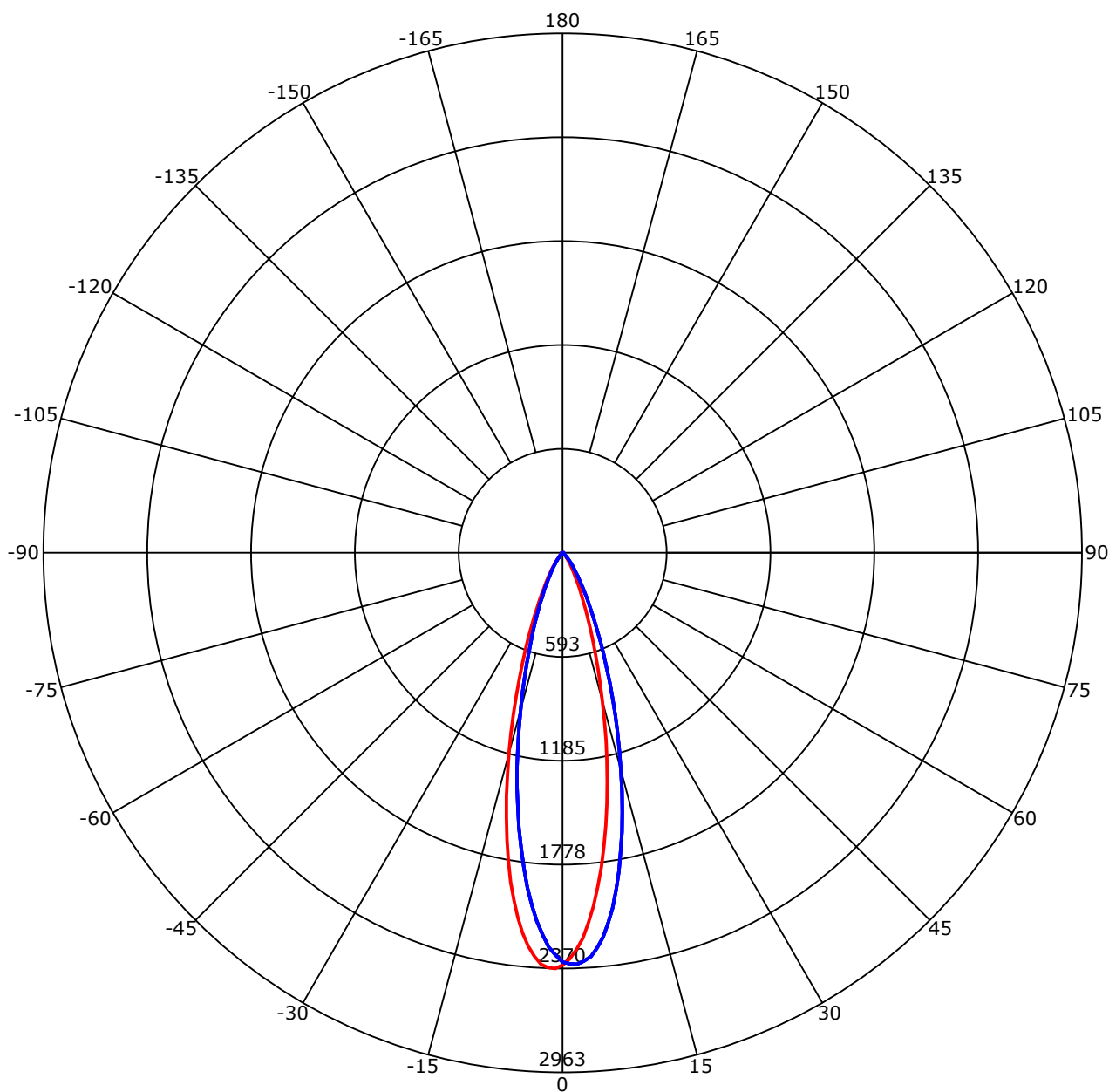
C Range: 0 - 360 Deg
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Test Distance: 6.87 m
Remarks:

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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: 2025/7/17 10:48:34

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

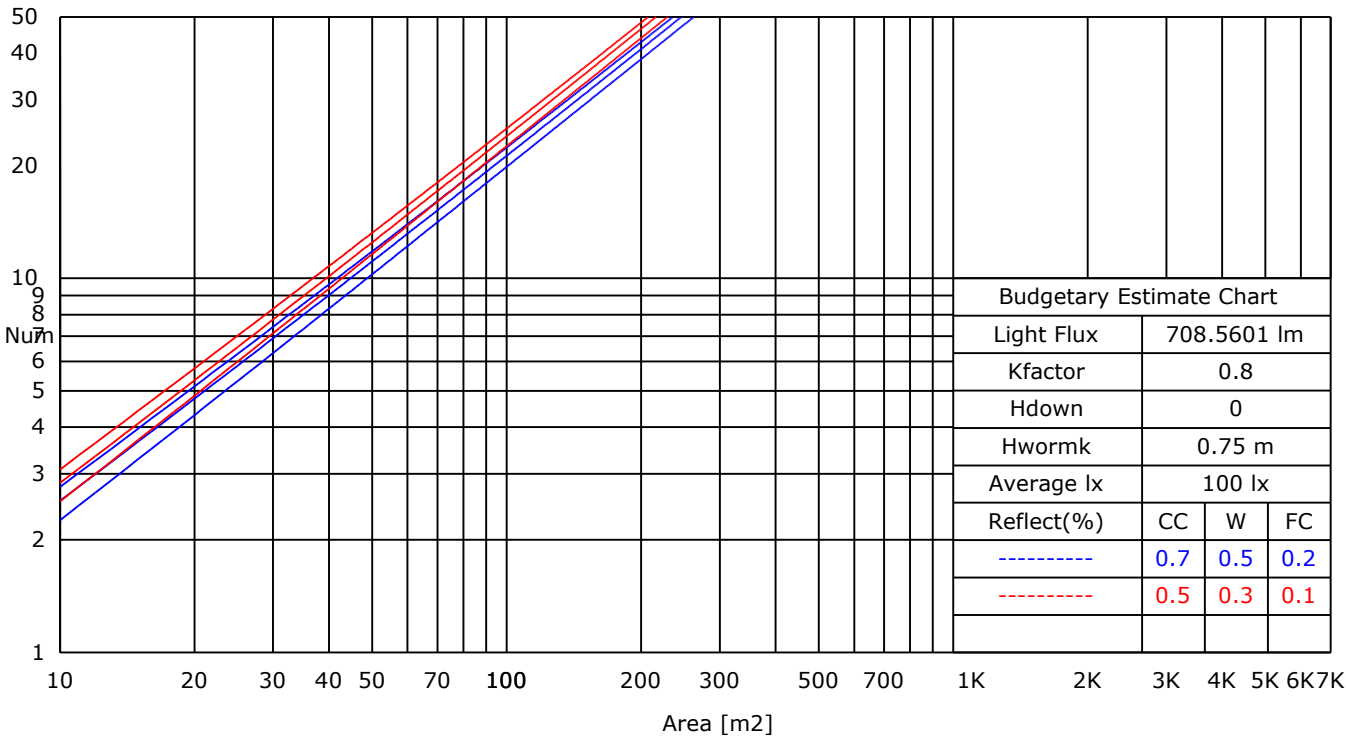
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UTILIZATION FACTORS TABLE

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	0.95	0.92	0.90	0.94	0.91	0.89	0.91	0.88	0.85	0.87	0.84	0.81	0.82	0.78	0.75	0.70
2	0.89	0.87	0.85	0.89	0.86	0.83	0.86	0.83	0.80	0.83	0.79	0.76	0.79	0.74	0.71	0.66
3	0.86	0.84	0.82	0.86	0.83	0.81	0.83	0.80	0.77	0.81	0.77	0.73	0.77	0.72	0.69	0.64
4	0.84	0.82	0.80	0.83	0.80	0.78	0.81	0.78	0.75	0.78	0.74	0.71	0.75	0.71	0.67	0.63
5	0.81	0.80	0.78	0.81	0.78	0.77	0.79	0.76	0.73	0.76	0.72	0.69	0.73	0.69	0.65	0.61
6	0.79	0.78	0.77	0.79	0.76	0.75	0.77	0.74	0.71	0.75	0.71	0.68	0.72	0.67	0.64	0.60
7	0.78	0.76	0.75	0.77	0.75	0.73	0.75	0.72	0.70	0.73	0.69	0.66	0.70	0.66	0.63	0.59
8	0.76	0.75	0.74	0.75	0.73	0.72	0.74	0.71	0.69	0.72	0.68	0.65	0.69	0.65	0.61	0.58
9	0.75	0.73	0.73	0.74	0.72	0.71	0.72	0.69	0.67	0.70	0.66	0.64	0.68	0.63	0.60	0.57
10	0.73	0.72	0.71	0.73	0.71	0.70	0.71	0.68	0.66	0.69	0.65	0.63	0.67	0.62	0.59	0.56

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



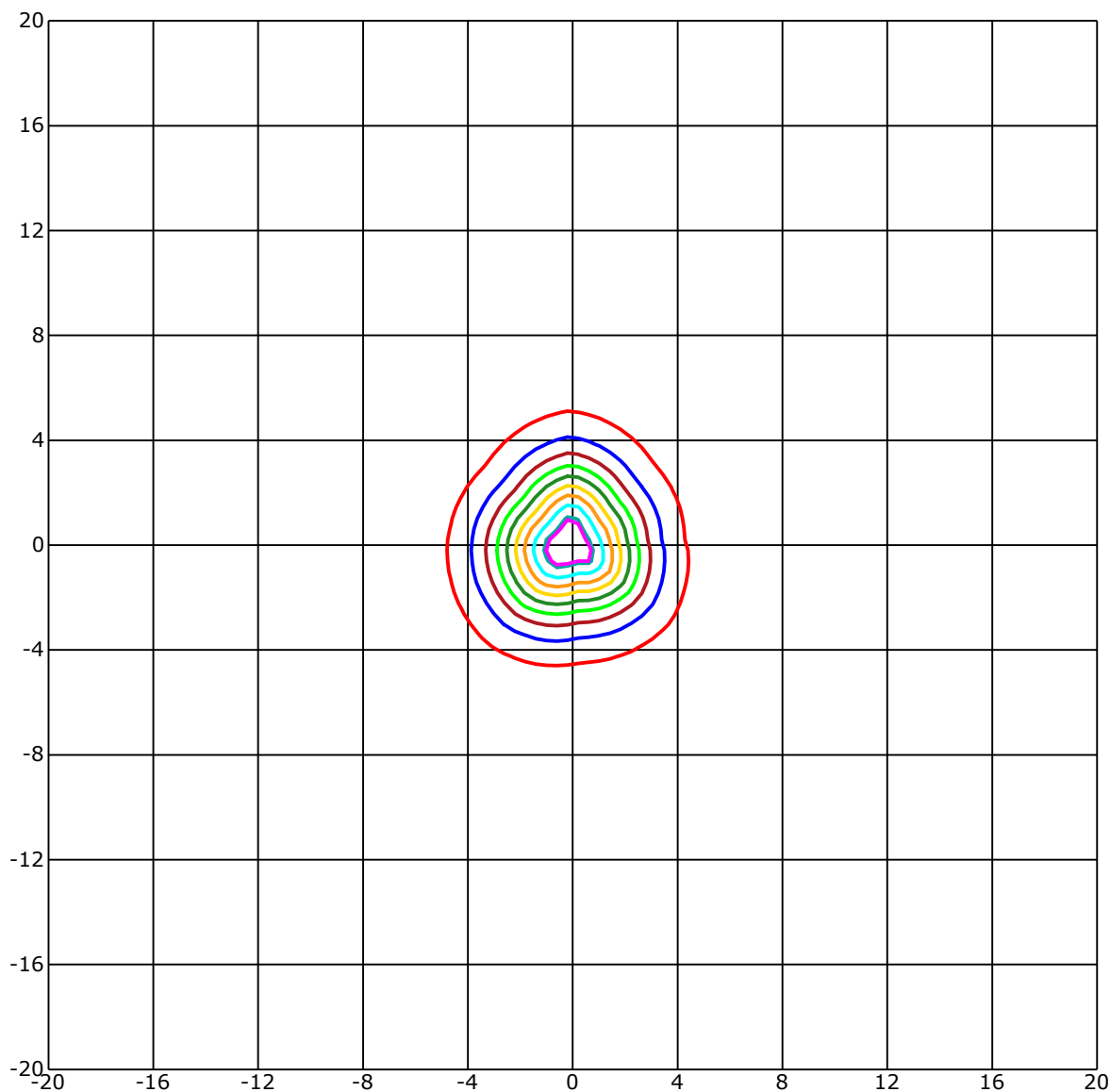
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/7/17 10:48:34

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
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ISOLX DIAGRAM



21.795(92%Emax)	11.845(50%Emax)
21.321(90%Emax)	9.476(40%Emax)
18.952(80%Emax)	7.107(30%Emax)
16.583(70%Emax)	4.738(20%Emax)
14.214(60%Emax)	2.369(10%Emax)

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
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Test Date: 2025/7/17 10:48:34

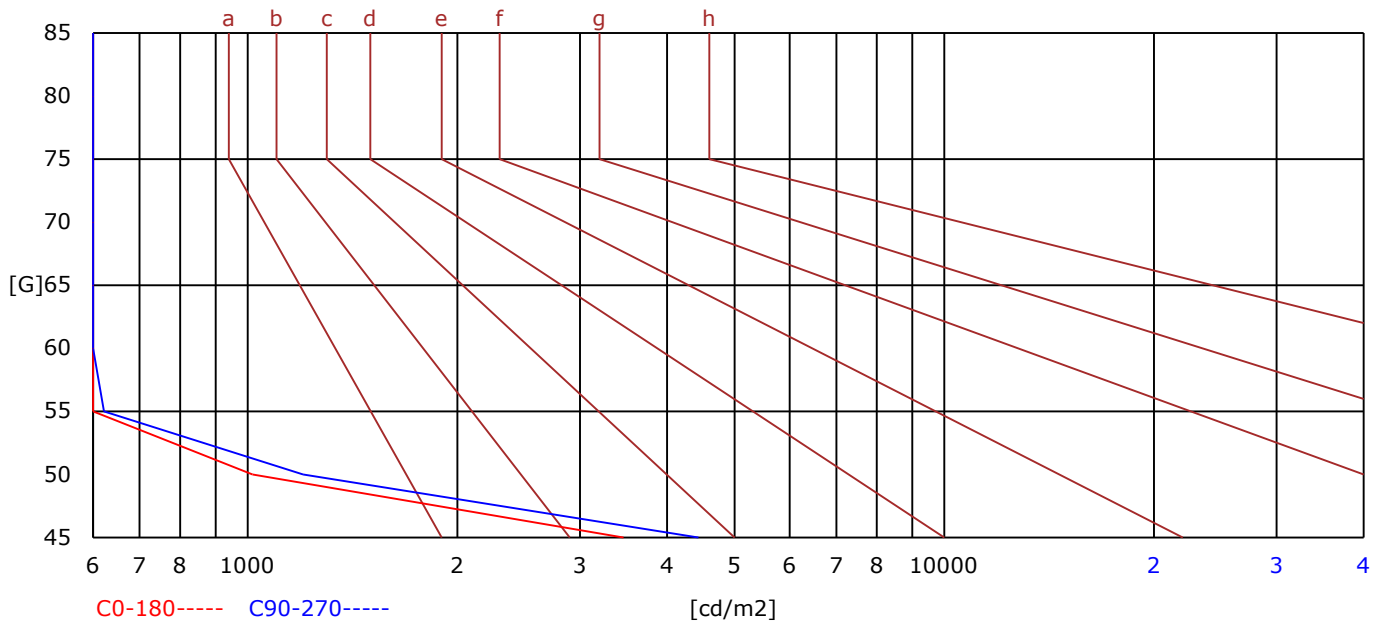
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Humidity: 60
Test Distance: 6.87 m
Remarks:

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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	3464	1017	477	214	0	0	0	0	0
C90	4440	1202	622	166	84	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



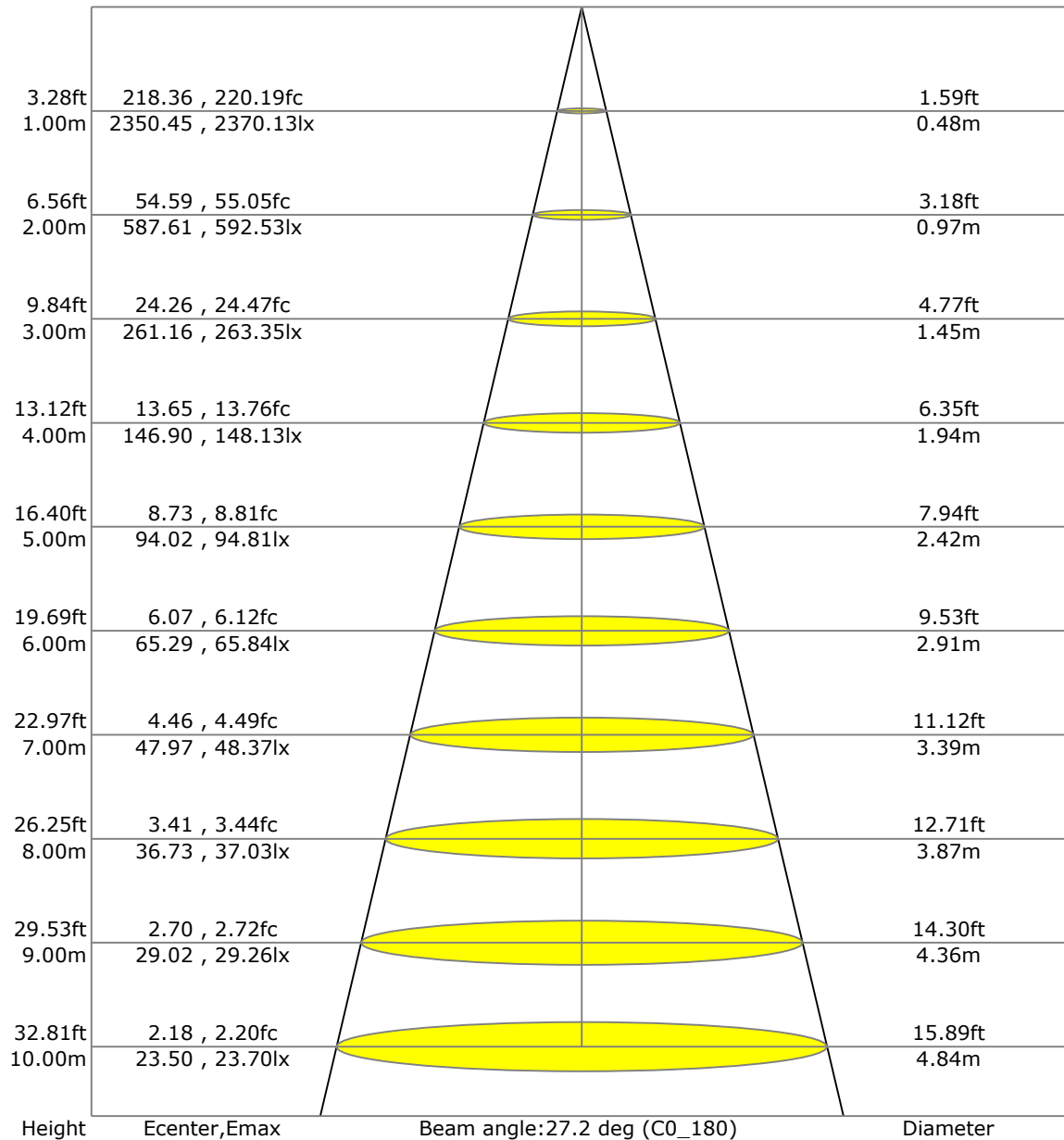
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Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/7/17 10:48:34

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 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: 2025/7/17 10:48:34

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1600B Goniophotometer
 Humidity: 60
 Test Distance: 6.87 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	7.24	7.30	7.44	7.48	7.73	7.55	7.60	7.75	7.79	8.03
3H	7.23	7.28	7.43	7.47	7.72	7.53	7.58	7.73	7.77	8.02
4H	7.22	7.27	7.43	7.47	7.72	7.51	7.57	7.72	7.77	8.01
6H	7.20	7.26	7.42	7.46	7.71	7.50	7.55	7.71	7.76	8.01
8H	7.19	7.25	7.41	7.45	7.71	7.49	7.55	7.71	7.75	8.00
12H	7.19	7.24	7.41	7.45	7.70	7.48	7.54	7.70	7.74	8.00
4H 2H	7.20	7.26	7.42	7.46	7.71	7.80	7.86	8.01	8.05	8.30
3H	7.18	7.24	7.40	7.44	7.70	7.78	7.83	8.00	8.04	8.29
4H	7.17	7.22	7.40	7.44	7.70	7.76	7.81	7.99	8.03	8.29
6H	7.15	7.21	7.39	7.43	7.69	7.74	7.79	7.97	8.01	8.28
8H	7.14	7.20	7.39	7.42	7.69	7.72	7.78	7.97	8.01	8.27
12H	7.13	7.19	7.38	7.42	7.69	7.71	7.77	7.96	8.00	8.27
8H 4H	7.18	7.24	7.40	7.44	7.70	8.03	8.09	8.25	8.29	8.54
6H	7.11	7.17	7.37	7.40	7.68	8.01	8.06	8.26	8.30	8.57
8H	7.10	7.15	7.36	7.40	7.68	7.99	8.04	8.25	8.29	8.57
12H	7.09	7.14	7.36	7.39	7.67	7.97	8.02	8.24	8.28	8.56
12H 4H	7.12	7.18	7.37	7.41	7.68	8.13	8.18	8.38	8.41	8.68
6H	7.10	7.15	7.36	7.39	7.67	8.11	8.16	8.37	8.41	8.69

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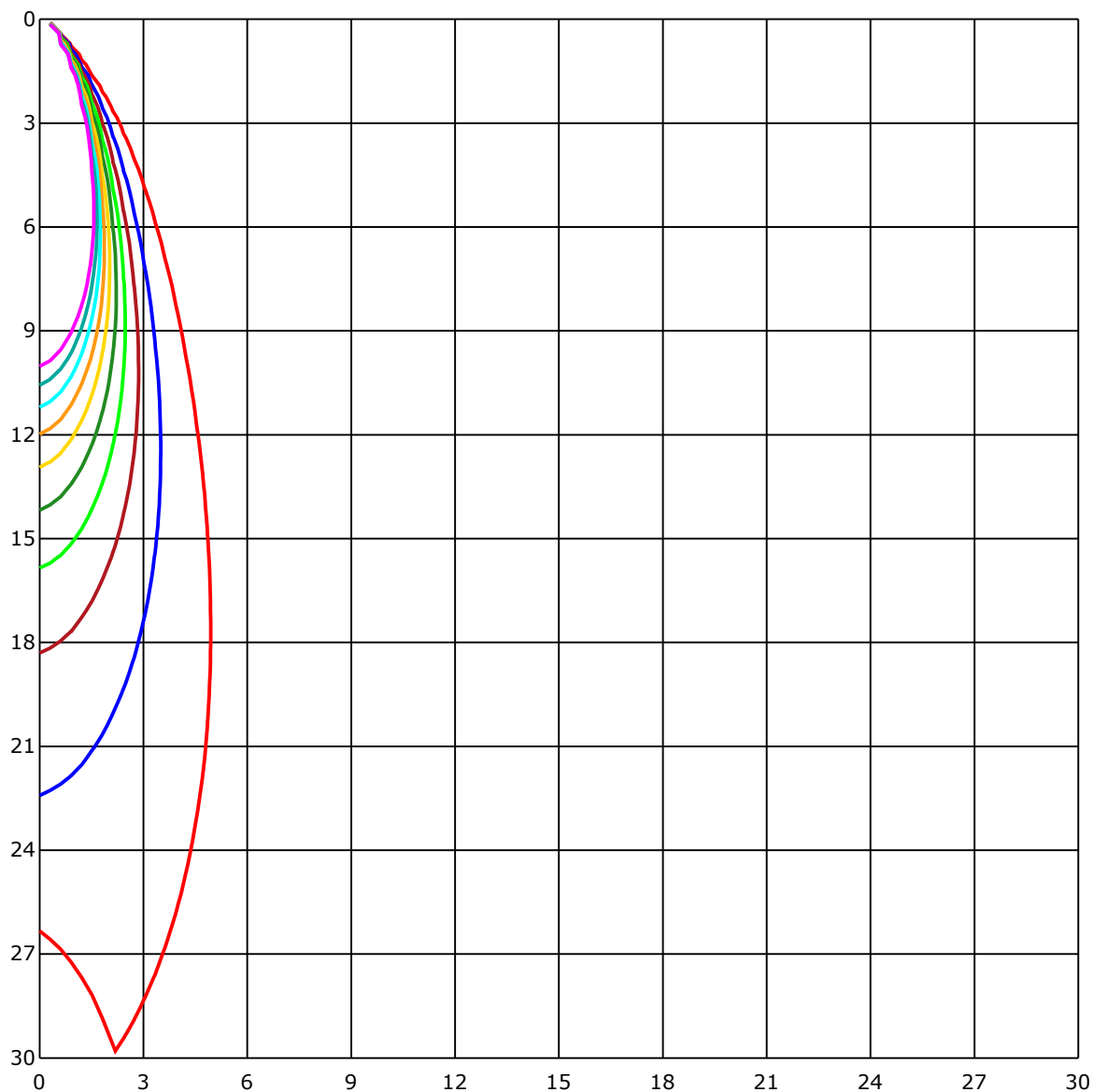
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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SPACE ISOLX DIAGRAM



Unit of illumination:lx



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	2350.45	2315.91	2333.56	2364.33	2350.45	2315.91	2333.56	2364.33	2350.45	
G1	2314.06	2275.69	2343.85	2348.42	2370.13	2337.05	2294.38	2367.87	2314.06	
G2	2262.95	2228.02	2348.09	2313.92	2367.07	2341.01	2251.01	2345.21	2262.95	
G3	2199.05	2163.22	2330.63	2257.05	2348.85	2324.49	2181.3	2310.48	2199.05	
G4	2111.87	2083.74	2307.79	2190.83	2305.9	2293.91	2106.12	2257.76	2111.87	
G5	2021.73	1990.91	2261.58	2106.21	2251.95	2243.17	2016.39	2194.66	2021.73	
G6	1915.2	1895.57	2203.58	2011.39	2180.12	2183.38	1919.07	2110.08	1915.2	
G7	1807.74	1787.77	2128.2	1905.67	2096.39	2104.18	1812.88	2021.44	1807.74	
G8	1692.15	1678.46	2046.88	1794.52	2000.82	2012.85	1702.53	1918.55	1692.15	
G9	1573.5	1559.48	1944.98	1680.4	1899.35	1914.87	1592.24	1813.59	1573.5	
G10	1451.78	1443.66	1843.46	1561.7	1782.96	1813.31	1475.09	1704.14	1451.78	
G11	1330.91	1328.59	1735.29	1443.99	1667.42	1702.35	1360.03	1582.65	1330.91	
G12	1212.91	1213.72	1626.22	1324.68	1544.42	1587.99	1249.35	1461.17	1212.91	
G13	1097.8	1100.3	1514.69	1207.96	1425.25	1468.63	1138.63	1343.84	1097.8	
G14	985.42	995.62	1399.44	1093.69	1299.94	1354.65	1031.87	1230.09	985.42	
G15	879.09	895.51	1285.27	987.69	1182.47	1240.52	927.89	1116.07	879.09	
G16	779.79	801.07	1177.75	883.43	1070.28	1131.36	833.92	1008.27	779.79	
G17	690.21	712.39	1069.06	787.57	961.31	1025.16	744.39	905.14	690.21	
G18	606.34	630.31	971.45	697.38	859.03	921.14	661.61	808.25	606.34	
G19	531.34	557.21	872.72	615.83	762.32	819.53	586.52	718.95	531.34	
G20	463.8	490.42	784.32	542.15	672.79	728.39	519.73	634.0	463.8	
G21	404.01	431.85	697.43	476.83	591.57	645.65	458.19	560.04	404.01	
G22	350.86	379.04	620.83	418.83	518.6	573.06	404.71	492.78	350.86	
G23	305.22	332.27	550.88	366.25	453.28	505.15	355.58	431.99	305.22	
G24	265.44	290.73	488.11	319.1	395.65	444.69	313.29	378.57	265.44	
G25	231.55	253.82	430.72	278.41	345.67	389.75	274.73	332.22	231.55	
G26	200.87	223.19	380.27	242.83	301.87	342.51	240.85	290.92	200.87	
G27	174.91	196.15	335.48	211.77	263.69	299.28	210.83	255.15	174.91	
G28	152.49	172.17	295.59	184.73	229.38	262.51	184.87	223.62	152.49	
G29	133.57	150.42	260.48	162.4	200.54	229.99	162.26	196.62	133.57	
G30	116.43	131.96	230.18	142.25	176.14	201.77	142.63	172.65	116.43	
G31	101.71	114.64	203.09	124.79	155.42	177.74	124.69	152.4	101.71	
G32	88.4	99.92	179.49	109.36	136.82	156.98	108.74	134.09	88.4	
G33	77.07	87.03	158.3	95.24	120.92	138.0	94.16	117.99	77.07	
G34	67.35	75.52	138.9	82.78	105.77	121.3	81.6	103.69	67.35	
G35	58.57	65.89	121.82	71.98	92.6	106.1	70.46	91.18	58.57	
G36	51.07	57.01	106.9	62.16	81.18	93.12	60.84	79.9	51.07	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

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

Test Distance: 6.87 m

Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	43.89	48.94	93.54	53.99	71.55	81.75	52.48	70.42	43.89	
G38	37.8	42.05	81.93	46.16	62.96	72.07	44.27	61.97	37.8	
G39	32.38	35.78	71.55	40.02	55.69	63.48	37.43	54.89	32.38	
G40	27.37	30.35	62.49	33.84	48.75	56.12	31.62	47.95	27.37	
G41	23.03	25.25	54.28	28.7	42.81	48.8	26.24	42.15	23.03	
G42	18.88	20.72	46.68	23.88	37.57	42.52	21.47	36.58	18.88	
G43	15.24	16.66	40.12	19.68	32.75	36.91	17.18	31.81	15.24	
G44	11.99	13.12	34.31	15.91	28.08	32.19	13.31	27.47	11.99	
G45	9.01	9.72	29.03	12.46	24.31	27.75	10.24	23.65	9.01	
G46	6.28	6.89	24.31	9.34	20.44	23.83	7.6	20.01	6.28	
G47	4.67	5.0	19.87	6.65	17.23	19.92	5.71	16.47	4.67	
G48	3.73	3.96	16.19	4.96	14.06	16.38	4.48	13.55	3.73	
G49	3.21	3.11	13.36	3.87	11.89	13.4	3.68	11.61	3.21	
G50	2.74	2.6	11.42	3.07	10.34	11.66	2.88	10.19	2.74	
G51	2.22	2.27	10.24	2.69	9.39	10.24	2.45	9.25	2.22	
G52	1.89	1.89	9.2	2.31	8.45	9.3	2.17	8.45	1.89	
G53	1.6	1.51	8.5	1.98	7.83	8.45	1.84	7.79	1.6	
G54	1.23	1.32	7.88	1.56	7.27	7.79	1.51	7.36	1.23	
G55	0.94	1.09	7.32	1.42	6.8	7.27	1.27	6.89	0.94	
G56	0.57	0.94	6.99	1.18	6.28	6.8	1.09	6.37	0.57	
G57	0.57	0.61	6.42	0.99	5.95	6.28	0.85	6.04	0.57	
G58	0.52	0.61	6.14	0.76	5.62	5.95	0.76	5.62	0.52	
G59	0.47	0.52	5.57	0.61	5.47	5.47	0.68	5.19	0.47	
G60	0.33	0.42	5.47	0.33	5.05	5.1	0.61	4.77	0.33	
G61	0.19	0.19	4.96	0.28	4.77	4.67	0.52	4.63	0.19	
G62	0.09	0.09	4.72	0.33	4.44	4.58	0.42	4.44	0.09	
G63	0.0	0.0	4.58	0.24	4.2	4.2	0.38	4.11	0.0	
G64	0.0	0.0	4.25	0.19	3.96	4.15	0.31	3.96	0.0	
G65	0.0	0.0	4.06	0.14	3.68	3.87	0.24	3.87	0.0	
G66	0.0	0.0	3.82	0.05	3.54	3.73	0.24	3.54	0.0	
G67	0.0	0.0	3.73	0.0	3.26	3.49	0.14	3.49	0.0	
G68	0.0	0.0	3.63	0.0	3.16	3.4	0.05	3.26	0.0	
G69	0.0	0.0	3.35	0.0	2.93	3.16	0.0	3.21	0.0	
G70	0.0	0.0	3.16	0.0	2.88	3.21	0.0	2.93	0.0	
G71	0.0	0.0	3.16	0.0	2.69	2.88	0.0	2.78	0.0	
G72	0.0	0.0	3.11	0.0	2.64	2.83	0.0	2.6	0.0	
G73	0.0	0.0	2.83	0.0	2.5	2.64	0.0	2.55	0.0	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/7/17 10:48:34

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.87 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: 2025/7/17 10:48:34

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks: