

Report No.:

Test Time: 2025/6/19 16:27:40

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP221CT042.(A)-15°-7W
Lamp Type:
Luminous Width: 38 mm
Luminous Length: 38 mm
Luminous Height: 34 mm

Voltage(V): 219.80 V
Current(A): 0.0370 A
Power(W): 7.49 W
Power Factor: 0.9100
Lamp Luminous Flux: 572.08

Photometric Results

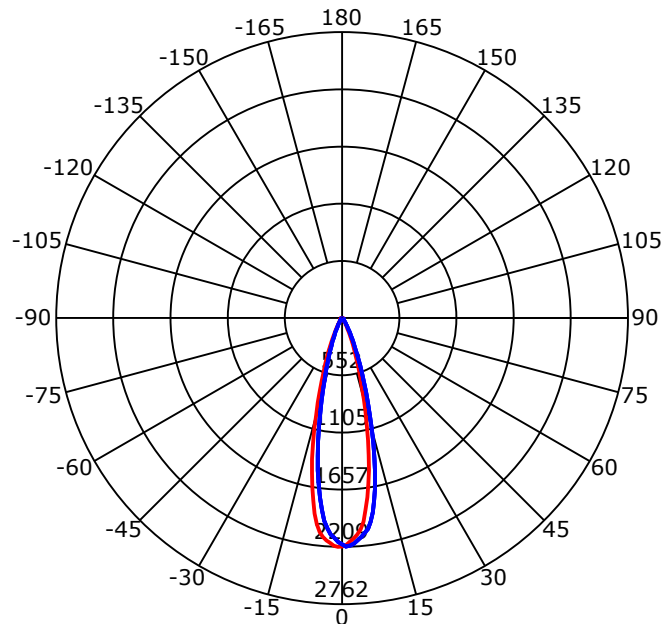
CIE Class: Direct
Luminaire Luminous Flux: 572.0778 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 76.38 lm/W
Beam Angle(50%) C0-180,C90-270: 26.7,26.8
Field Angle(10%) C0-180,C90-270: 48.4,48.7
S/MH C0-180,C90-270: 0.462,0.462

Max. Intensity: 2209.29 cd
Max.Intensity Angle: C=180 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 2205.75 cd
Effective Luminous Flux: 484.93 lm
ERP(ϕ use)(120deg): 570.82 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 26.7 deg,26.8 deg

C0-180 — C90-270 —

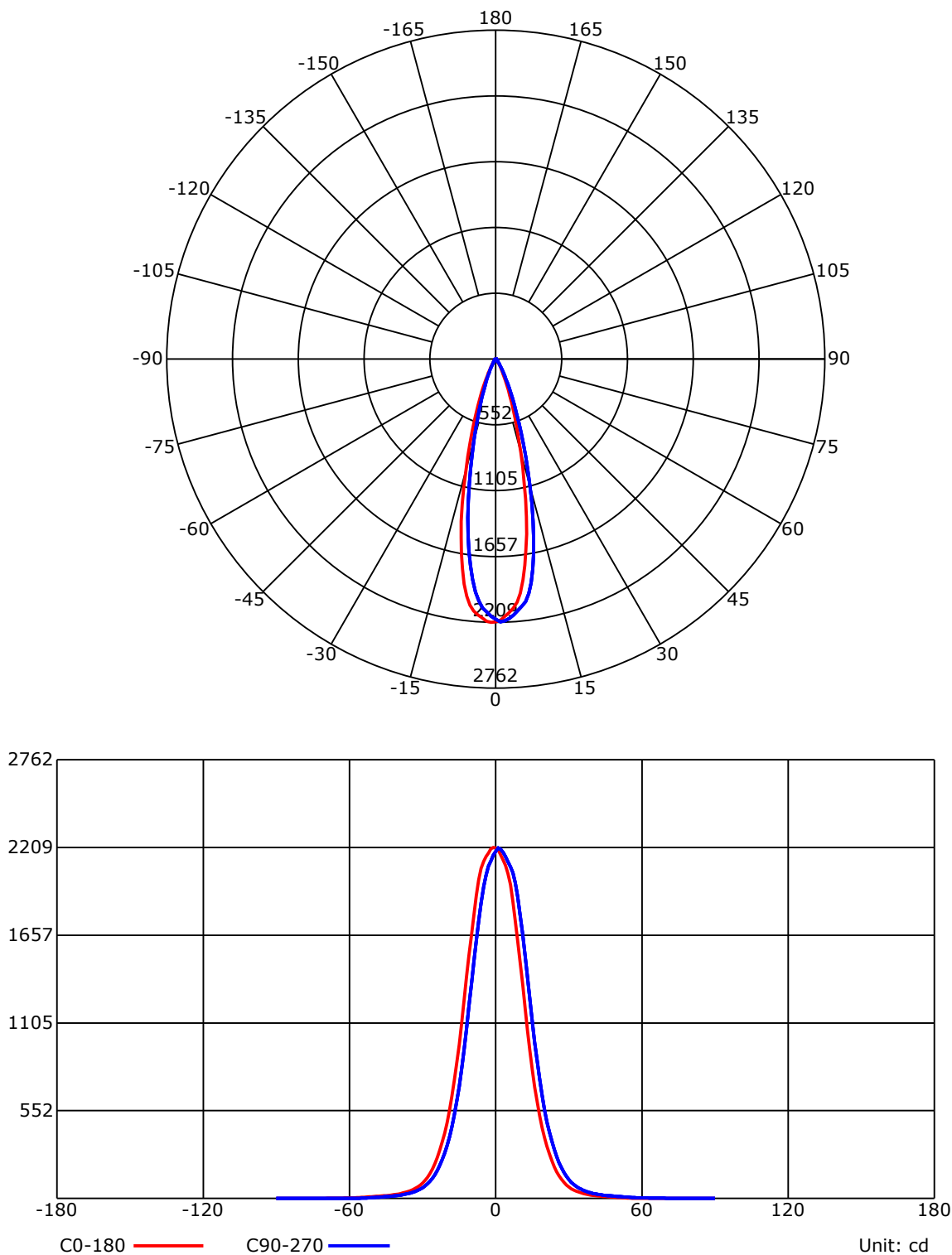
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/6/19 16:27:40

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 Intensity Distribution Curve



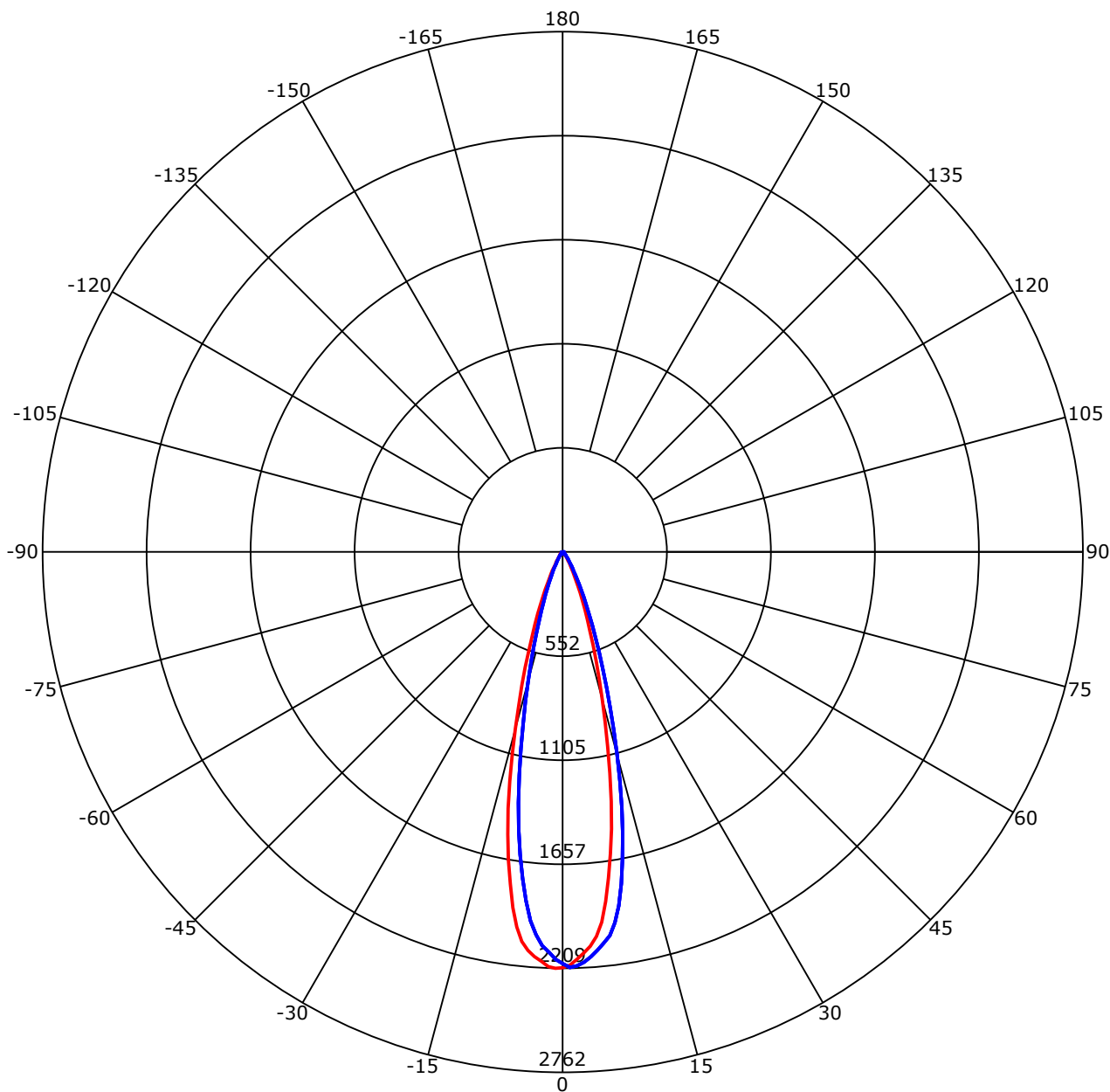
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

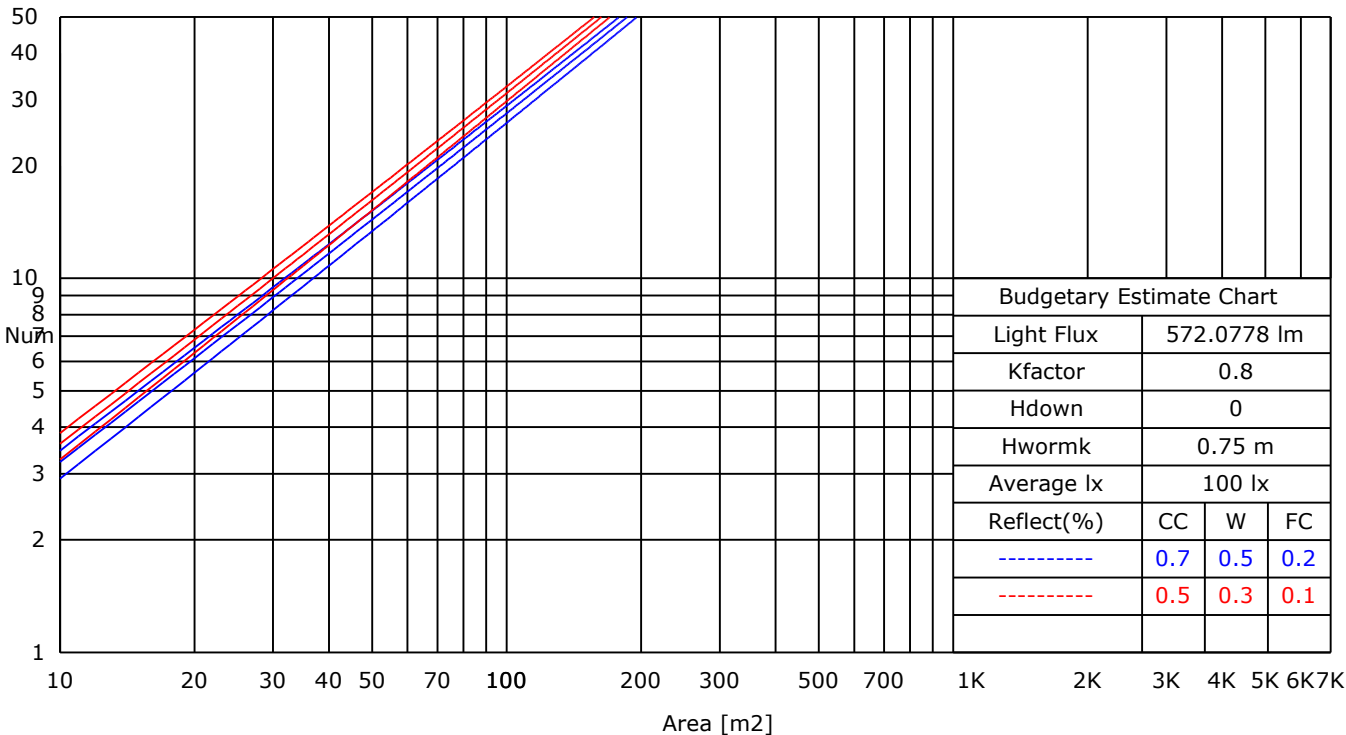
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G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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	0.88	0.84	0.82	0.87	0.83	0.80	0.85	0.81	0.77	0.81	0.77	0.73	0.76	0.72	0.68	0.63
2	0.84	0.81	0.79	0.84	0.80	0.78	0.82	0.78	0.75	0.79	0.75	0.71	0.75	0.70	0.66	0.61
3	0.82	0.79	0.77	0.81	0.78	0.76	0.80	0.76	0.73	0.77	0.73	0.69	0.73	0.69	0.65	0.60
4	0.79	0.77	0.76	0.79	0.76	0.74	0.78	0.74	0.71	0.75	0.71	0.67	0.72	0.67	0.63	0.59
5	0.78	0.76	0.74	0.77	0.75	0.73	0.76	0.72	0.69	0.74	0.69	0.66	0.71	0.66	0.62	0.58
6	0.76	0.74	0.73	0.76	0.73	0.71	0.74	0.71	0.68	0.72	0.68	0.65	0.69	0.65	0.61	0.57
7	0.75	0.73	0.72	0.74	0.72	0.70	0.73	0.69	0.67	0.71	0.66	0.63	0.68	0.64	0.60	0.56
8	0.73	0.72	0.71	0.73	0.70	0.69	0.71	0.68	0.66	0.69	0.65	0.62	0.67	0.62	0.59	0.56
9	0.72	0.71	0.70	0.71	0.69	0.68	0.70	0.67	0.65	0.68	0.64	0.61	0.66	0.61	0.58	0.55
10	0.71	0.70	0.69	0.70	0.68	0.67	0.69	0.66	0.64	0.67	0.63	0.61	0.65	0.60	0.57	0.54

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



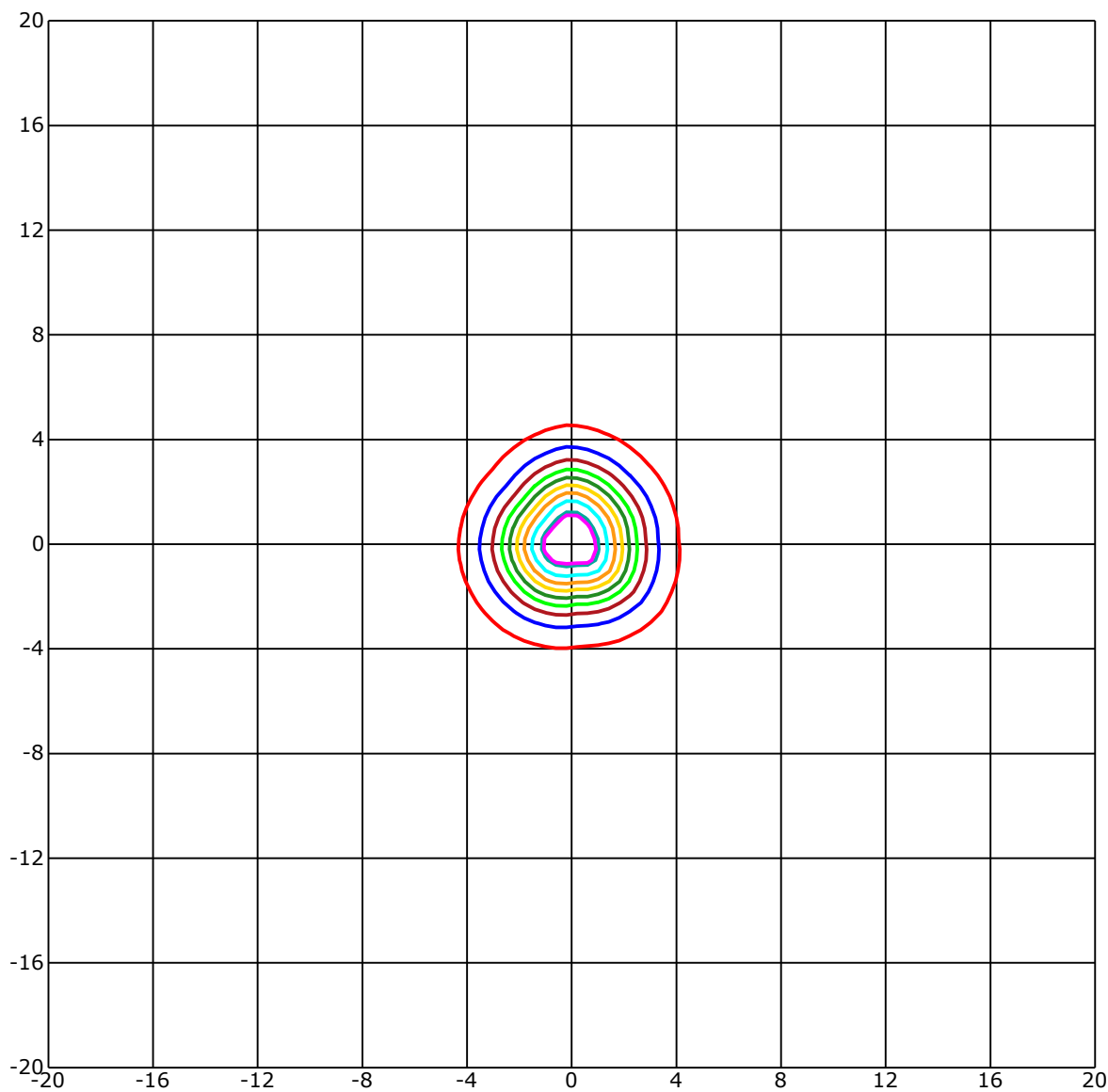
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Operators: QC01
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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ISOLX DIAGRAM



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/6/19 16:27:40

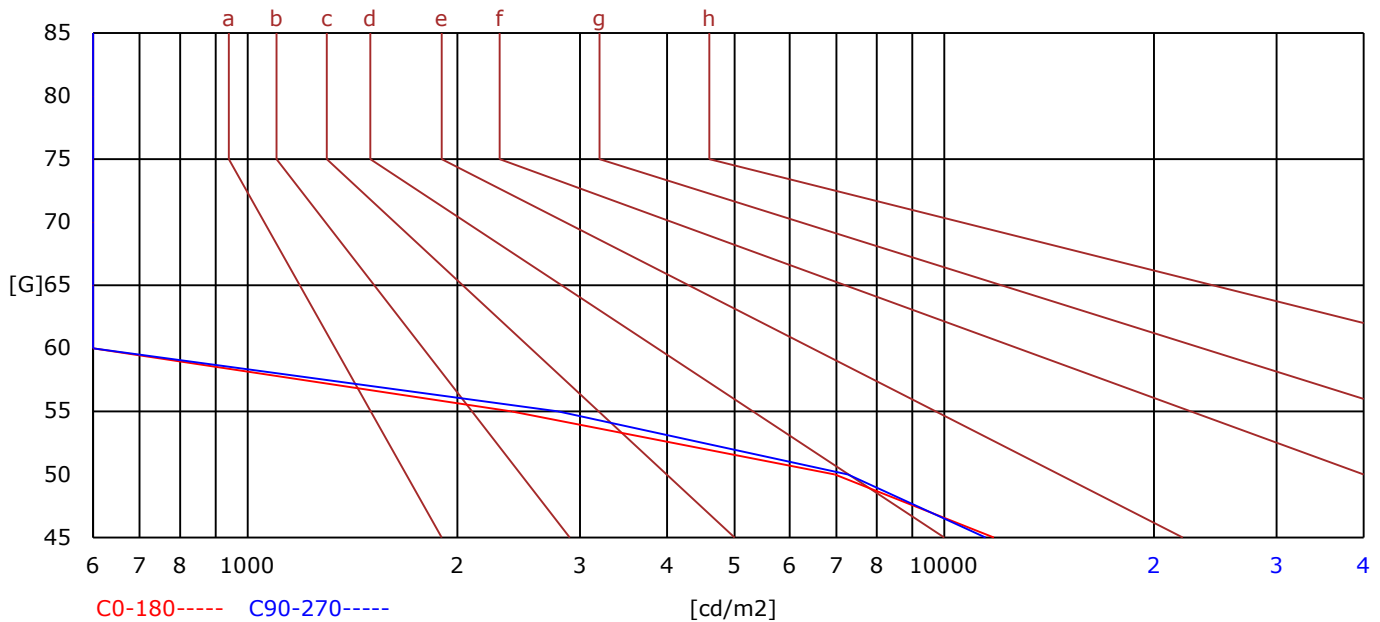
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Test Distance: 6.87 m
Remarks:

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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	11787	6966	2393	0	0	0	0	0	0
C90	11463	7271	2792	261	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



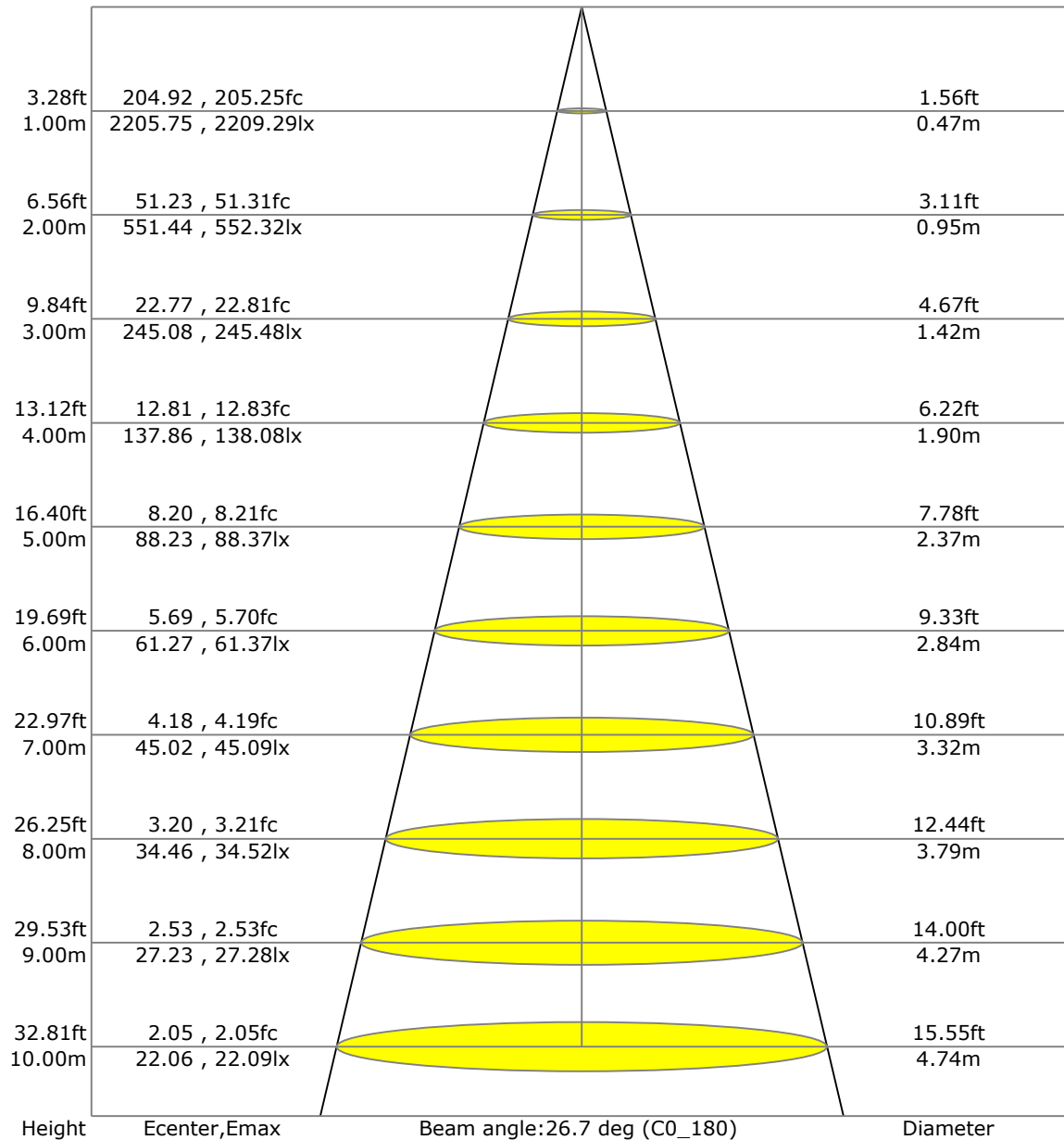
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G Interval: 1.0 Deg
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Humidity: 60
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Remarks:

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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: 2025/6/19 16:27:40

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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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	9.55	9.60	9.75	9.79	10.03	10.05	10.10	10.25	10.29	10.53
3H	9.53	9.59	9.73	9.78	10.03	10.02	10.08	10.23	10.28	10.52
4H	9.51	9.57	9.73	9.77	10.02	10.01	10.07	10.22	10.27	10.52
6H	9.50	9.56	9.72	9.76	10.01	10.00	10.06	10.21	10.26	10.51
8H	9.49	9.55	9.71	9.76	10.01	9.99	10.05	10.21	10.25	10.51
12H	9.48	9.54	9.71	9.75	10.01	9.98	10.04	10.20	10.25	10.50
4H 2H	9.51	9.57	9.72	9.77	10.02	10.11	10.17	10.32	10.37	10.62
3H	9.48	9.54	9.71	9.75	10.01	10.08	10.14	10.30	10.35	10.60
4H	9.46	9.53	9.69	9.74	10.00	10.06	10.12	10.29	10.34	10.60
6H	9.44	9.51	9.68	9.73	9.99	10.04	10.10	10.28	10.32	10.59
8H	9.43	9.49	9.68	9.72	9.99	10.03	10.09	10.27	10.32	10.58
12H	9.42	9.48	9.67	9.71	9.98	10.02	10.08	10.27	10.31	10.58
8H 4H	9.49	9.55	9.71	9.75	10.01	10.09	10.15	10.31	10.35	10.61
6H	9.41	9.46	9.66	9.70	9.98	10.00	10.06	10.26	10.30	10.58
8H	9.39	9.45	9.65	9.70	9.97	9.99	10.05	10.25	10.29	10.57
12H	9.37	9.43	9.65	9.69	9.97	9.97	10.03	10.24	10.28	10.57
12H 4H	9.42	9.48	9.67	9.71	9.98	10.02	10.08	10.27	10.31	10.58
6H	9.39	9.45	9.65	9.70	9.97	9.99	10.05	10.25	10.29	10.57

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Test Speed: High

Temperature: 25

Operators: QC01

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G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.87 m

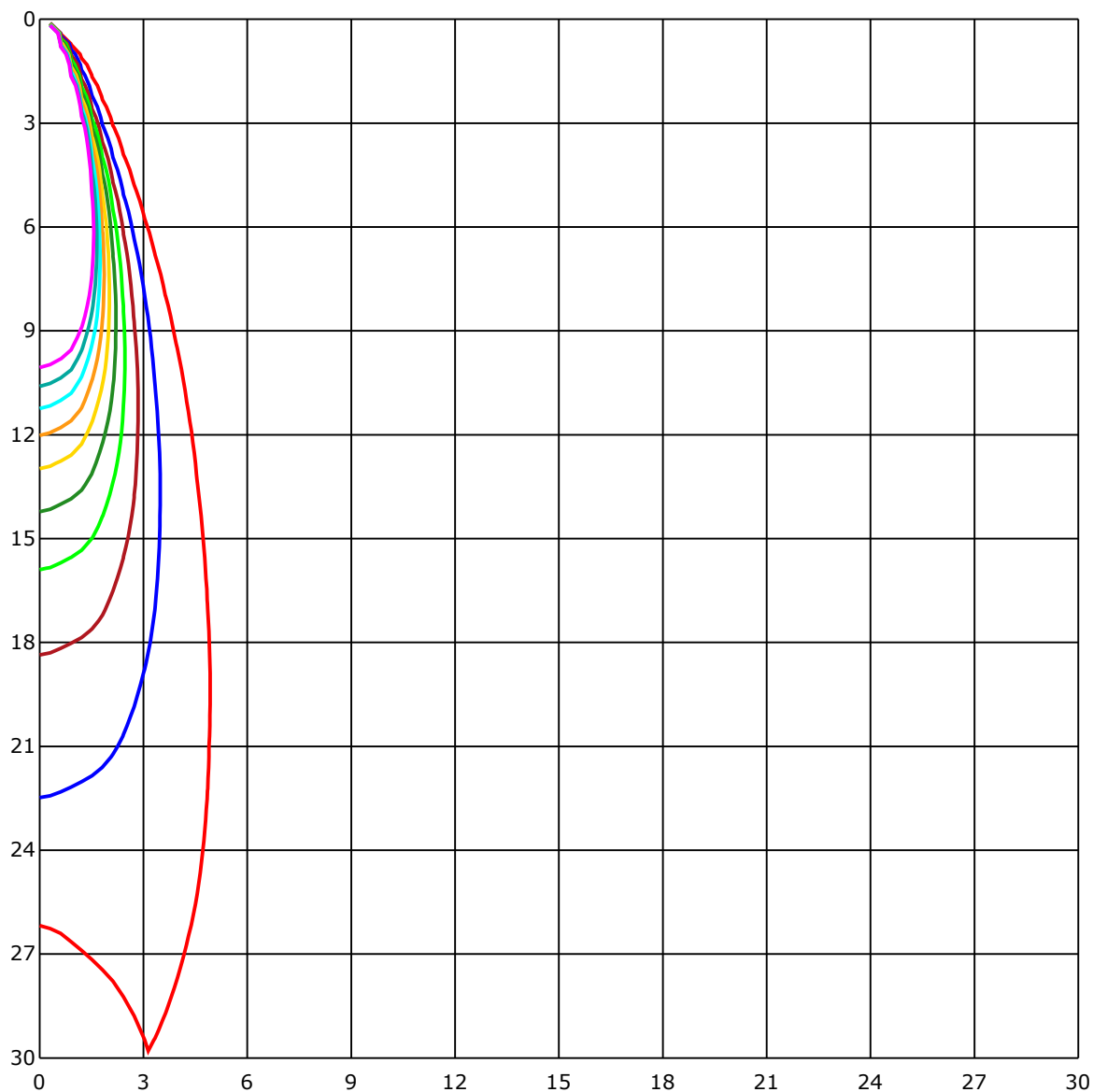
Remarks:

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Humidity: 60
Test Distance: 6.87 m
Remarks:

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SPACE ISOLX DIAGRAM



21.824

19.641

17.459

15.277

13.094

10.912

8.729

6.547

4.365

2.182

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C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/6/19 16:27:40

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	2205.75	2193.38	2183.94	2206.88	2205.75	2193.38	2183.94	2206.88	2205.75	
G1	2193.15	2184.56	2205.46	2197.82	2209.29	2183.14	2161.76	2202.3	2193.15	
G2	2162.61	2164.4	2197.35	2166.72	2201.88	2165.35	2124.95	2186.49	2162.61	
G3	2130.8	2133.87	2180.17	2136.65	2174.5	2137.55	2092.24	2161.43	2130.8	
G4	2097.57	2104.13	2152.7	2103.52	2152.37	2108.66	2035.93	2132.17	2097.57	
G5	2047.92	2065.1	2120.32	2061.94	2122.35	2063.54	1964.43	2097.34	2047.92	
G6	1975.29	2010.49	2087.24	1998.41	2077.37	2003.08	1859.56	2044.1	1975.29	
G7	1867.96	1928.89	2050.89	1911.43	2004.97	1912.56	1745.44	1960.8	1867.96	
G8	1747.47	1826.47	1986.66	1792.54	1905.43	1804.1	1621.07	1857.62	1747.47	
G9	1620.98	1708.48	1900.05	1666.95	1783.24	1679.45	1491.09	1743.31	1620.98	
G10	1492.27	1582.23	1787.72	1535.22	1658.22	1551.69	1351.01	1617.3	1492.27	
G11	1348.09	1449.18	1663.27	1399.62	1526.68	1415.72	1207.06	1480.47	1348.09	
G12	1201.59	1313.4	1529.7	1258.79	1392.59	1276.77	1064.67	1335.77	1201.59	
G13	1057.21	1170.39	1394.9	1116.16	1248.45	1136.17	935.06	1191.63	1057.21	
G14	929.97	1030.5	1253.88	975.42	1104.97	1003.6	816.13	1053.81	929.97	
G15	811.41	902.97	1115.22	848.98	970.04	879.14	707.25	929.5	811.41	
G16	702.48	788.57	982.4	739.53	848.18	766.24	608.98	810.56	702.48	
G17	604.64	683.51	862.15	639.99	741.37	662.55	524.22	703.89	604.64	
G18	519.12	587.93	752.6	550.17	643.53	571.27	448.89	610.82	519.12	
G19	446.15	503.64	650.8	472.72	554.14	490.94	386.78	526.67	446.15	
G20	384.65	432.84	560.09	407.5	476.83	422.13	332.27	455.07	384.65	
G21	328.82	372.48	483.01	351.24	410.94	362.8	285.31	394.19	328.82	
G22	280.11	319.62	416.84	300.83	353.41	311.22	243.06	337.27	280.11	
G23	236.79	273.13	360.3	256.89	302.34	266.8	206.72	289.79	236.79	
G24	199.36	231.74	308.86	217.44	257.93	228.24	175.62	246.23	199.36	
G25	167.6	195.87	264.21	183.45	218.66	194.45	149.19	210.31	167.6	
G26	141.54	165.14	224.85	153.86	185.25	166.09	126.72	179.16	141.54	
G27	118.56	139.23	191.19	129.27	156.46	142.2	107.89	152.97	118.56	
G28	99.87	117.99	163.11	108.88	132.95	121.58	92.18	130.26	99.87	
G29	84.44	99.49	139.28	91.7	113.37	104.68	79.05	111.34	84.44	
G30	71.79	84.25	118.56	77.54	97.18	90.52	67.63	95.48	71.79	
G31	61.12	71.64	101.38	66.17	83.4	78.39	58.76	82.55	61.12	
G32	53.0	61.73	87.03	56.59	72.45	68.62	51.16	71.64	53.0	
G33	45.55	53.14	75.52	48.99	63.1	60.6	44.65	62.77	45.55	
G34	40.16	46.16	65.93	42.57	55.79	53.52	39.08	55.36	40.16	
G35	34.88	40.21	58.05	37.33	48.99	47.1	34.36	48.94	34.88	
G36	30.73	35.02	51.3	32.52	43.7	41.86	30.3	43.23	30.73	

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	27.0	30.58	44.84	28.55	38.98	37.38	26.9	38.65	27.0	
G38	23.83	26.76	39.55	25.01	35.21	33.56	23.79	34.64	23.83	
G39	21.24	23.41	35.07	21.95	31.15	29.97	21.29	31.48	21.24	
G40	19.11	20.81	31.2	19.26	27.99	27.19	19.11	28.51	19.11	
G41	17.18	18.69	28.08	17.32	25.25	24.83	17.37	26.1	17.18	
G42	15.39	16.75	25.53	15.67	23.13	22.84	15.48	23.98	15.39	
G43	13.88	14.91	23.22	14.02	21.29	20.77	13.92	21.76	13.88	
G44	12.79	13.5	21.0	12.65	19.49	19.26	12.55	19.78	12.79	
G45	11.42	12.04	19.26	11.7	17.89	17.84	11.37	18.36	11.42	
G46	10.38	10.9	17.79	10.57	16.71	16.38	10.1	16.75	10.38	
G47	9.2	9.63	16.47	9.68	15.43	15.01	8.87	15.39	9.2	
G48	8.17	8.68	15.15	8.68	14.4	13.69	7.83	13.88	8.17	
G49	7.17	7.55	13.78	7.6	13.22	12.41	6.61	12.55	7.17	
G50	6.04	6.47	12.65	6.75	12.04	11.19	5.57	11.42	6.04	
G51	5.05	5.43	11.52	5.71	10.9	10.01	4.63	10.34	5.05	
G52	4.2	4.48	10.29	4.67	9.72	8.92	3.68	9.06	4.2	
G53	3.35	3.54	9.2	3.96	8.68	7.74	2.93	8.07	3.35	
G54	2.45	2.74	8.12	2.93	7.69	6.94	2.12	6.99	2.45	
G55	1.79	1.98	7.13	2.31	6.7	5.81	1.46	6.18	1.79	
G56	1.27	1.27	6.14	1.6	5.9	5.1	0.85	5.24	1.27	
G57	0.85	0.71	5.38	1.13	5.05	4.44	0.42	4.63	0.85	
G58	0.52	0.57	4.58	0.66	4.44	3.96	0.14	4.06	0.52	
G59	0.24	0.14	4.11	0.38	4.01	3.4	0.0	3.59	0.24	
G60	0.09	0.0	3.63	0.19	3.63	3.11	0.0	3.11	0.09	
G61	0.05	0.0	3.21	0.19	3.35	2.83	0.0	2.88	0.05	
G62	0.05	0.0	3.07	0.0	3.11	2.69	0.0	2.64	0.05	
G63	0.0	0.0	2.78	0.0	2.88	2.36	0.0	2.5	0.0	
G64	0.0	0.0	2.5	0.0	2.69	2.27	0.0	2.5	0.0	
G65	0.0	0.0	2.36	0.0	2.31	1.89	0.0	2.12	0.0	
G66	0.0	0.0	2.08	0.0	2.17	1.65	0.0	1.79	0.0	
G67	0.0	0.0	1.89	0.0	1.94	1.51	0.0	1.6	0.0	
G68	0.0	0.0	1.79	0.0	1.6	1.27	0.0	1.42	0.0	
G69	0.0	0.0	1.56	0.0	1.37	0.94	0.0	1.23	0.0	
G70	0.0	0.0	1.27	0.0	1.27	0.85	0.0	0.99	0.0	
G71	0.0	0.0	1.13	0.0	1.04	0.57	0.0	0.66	0.0	
G72	0.0	0.0	0.76	0.0	0.85	0.42	0.0	0.57	0.0	
G73	0.0	0.0	0.57	0.0	0.61	0.28	0.0	0.42	0.0	

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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:

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

[illegible]

C Range: 0 - 360 Deg
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