

Report No.:

Test Time: 2025/1/7 17:29:42

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP110CT075H92-38°-10W
Lamp Type:
Luminous Width: 80 mm
Luminous Length: 80 mm
Luminous Height: 86 mm

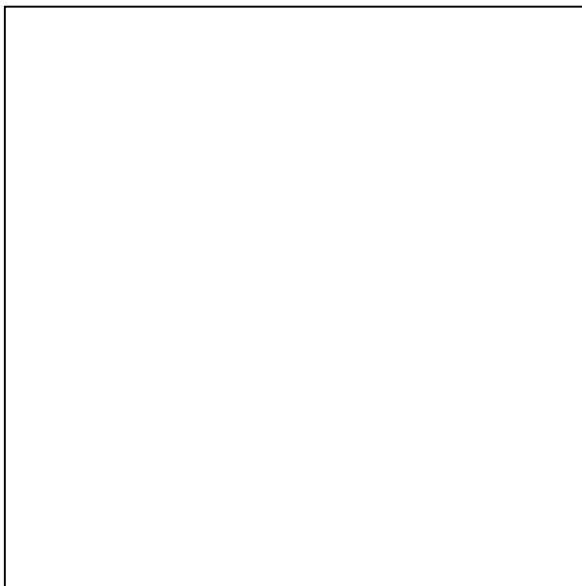
Voltage(V): 220.00 V
Current(A): 0.0530 A
Power(W): 10.88 W
Power Factor: 0.9150
Lamp Luminous Flux: 835.84

Photometric Results

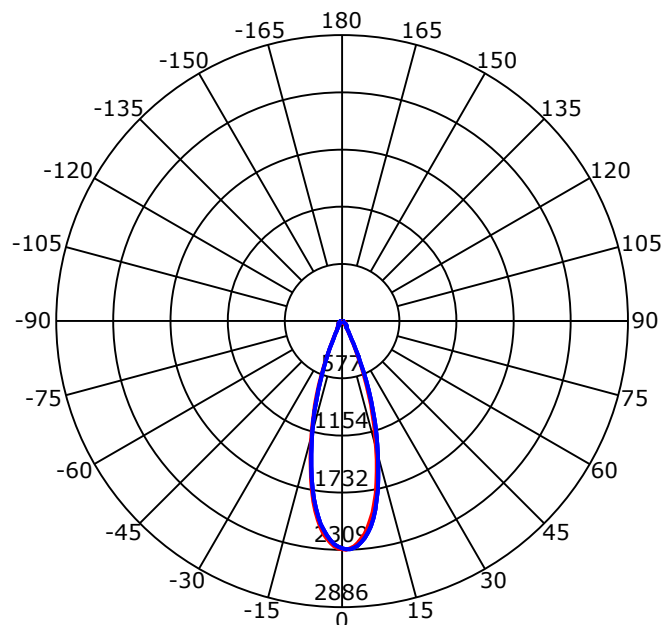
CIE Class: Direct
Luminaire Luminous Flux: 835.8381 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 76.82 lm/W
Beam Angle(50%) C0-180,C90-270: 32.0,32.4
Field Angle(10%) C0-180,C90-270: 52.3,52.7
S/MH C0-180,C90-270: 0.536,0.536

Max. Intensity: 2308.72 cd
Max.Intensity Angle: C=0 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 2302.70 cd
Effective Luminous Flux: 663.40 lm
ERP(ϕ use)(120deg): 814.70 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 32.0 deg,32.4 deg

C0-180 — C90-270

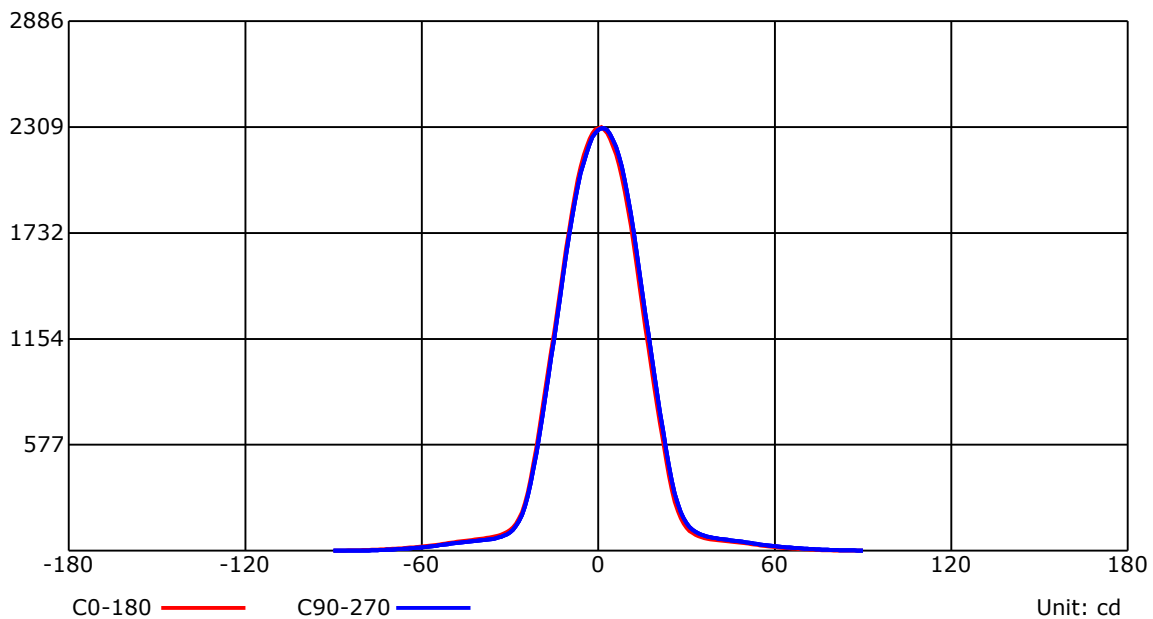
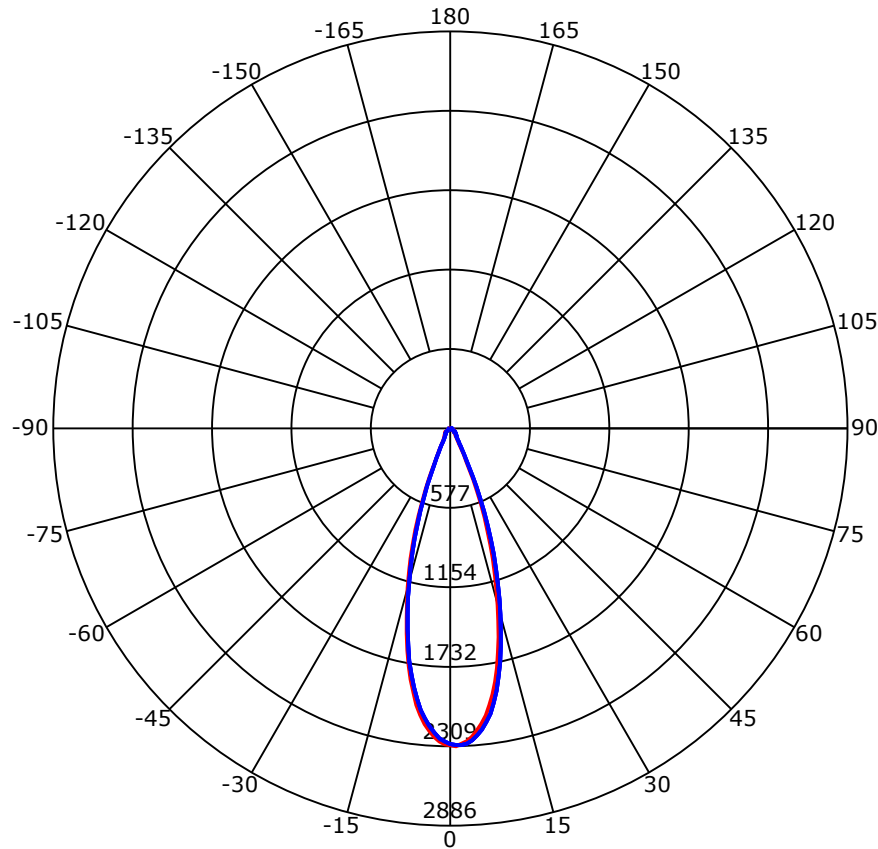
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/1/7 17:29:42

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 m
Remarks:

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Luminous Intensity Distribution Curve



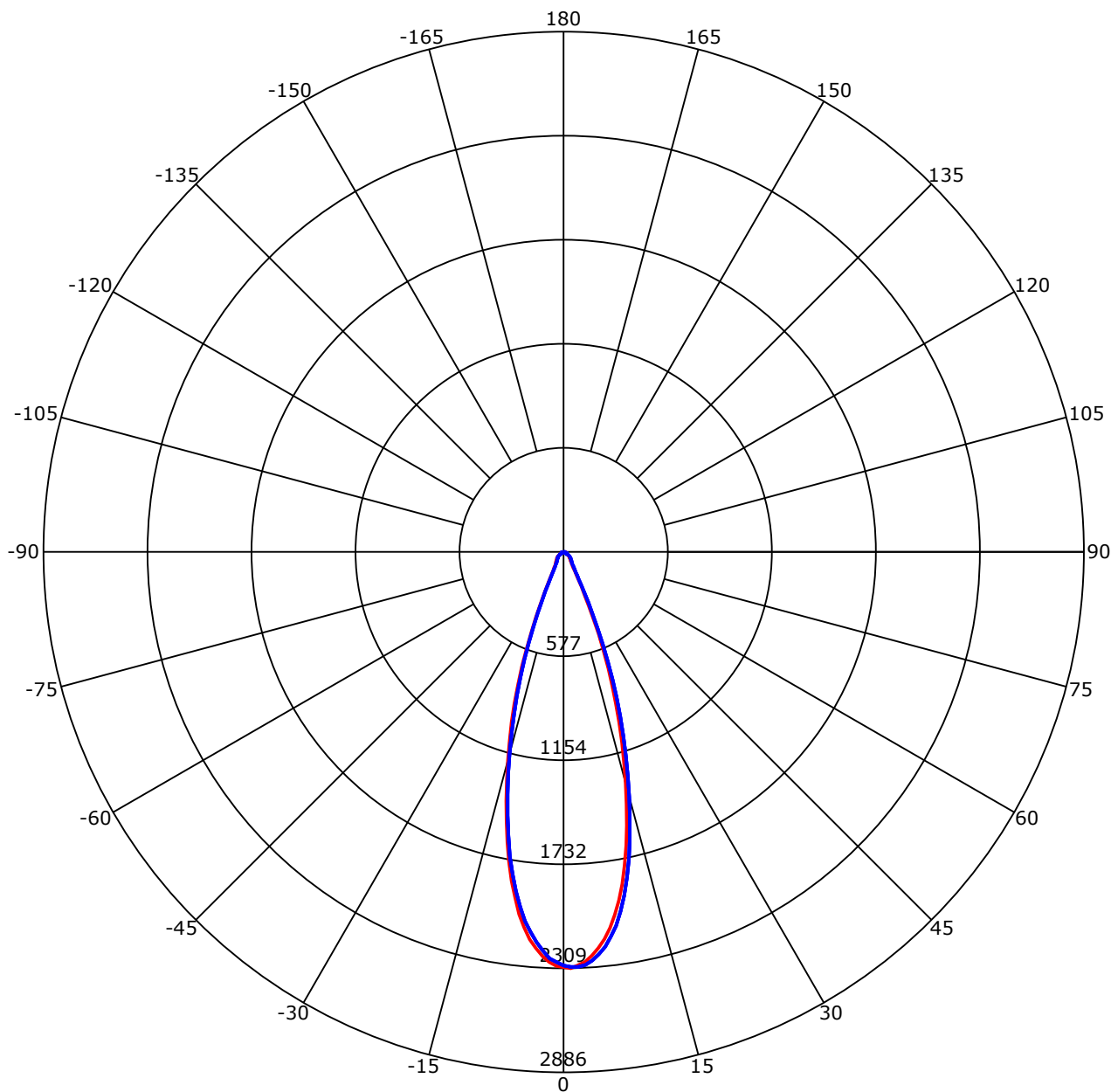
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C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/1/7 17:29:42

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 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: 2025/1/7 17:29:42

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 m
Remarks:

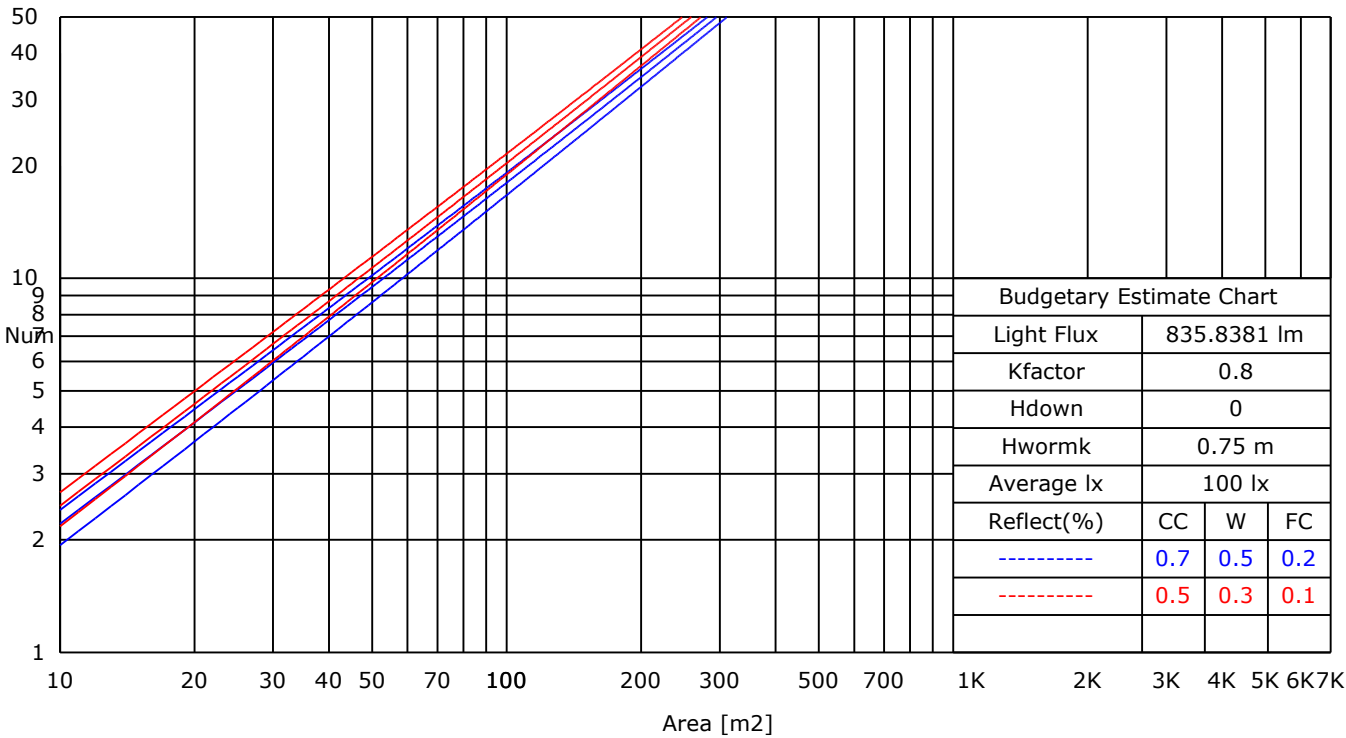
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UTILIZATION FACTORS TABLE

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	0.88	0.91	0.88	0.85	0.87	0.83	0.80	0.81	0.78	0.75	0.69
2	0.90	0.88	0.86	0.90	0.87	0.84	0.87	0.84	0.81	0.84	0.80	0.77	0.79	0.75	0.72	0.67
3	0.87	0.84	0.83	0.86	0.83	0.81	0.84	0.80	0.78	0.81	0.77	0.74	0.77	0.73	0.69	0.65
4	0.84	0.82	0.80	0.83	0.80	0.79	0.81	0.78	0.75	0.78	0.74	0.71	0.75	0.71	0.67	0.63
5	0.81	0.79	0.78	0.80	0.78	0.76	0.79	0.75	0.73	0.76	0.72	0.69	0.73	0.69	0.65	0.61
6	0.79	0.77	0.76	0.78	0.76	0.74	0.76	0.73	0.71	0.74	0.70	0.67	0.71	0.67	0.63	0.60
7	0.77	0.75	0.74	0.76	0.74	0.72	0.74	0.71	0.69	0.72	0.68	0.65	0.70	0.65	0.62	0.58
8	0.75	0.73	0.72	0.74	0.72	0.71	0.73	0.69	0.67	0.71	0.67	0.64	0.68	0.64	0.60	0.57
9	0.73	0.72	0.71	0.73	0.71	0.69	0.71	0.68	0.66	0.69	0.65	0.63	0.67	0.62	0.59	0.56
10	0.72	0.70	0.70	0.71	0.69	0.68	0.69	0.67	0.65	0.68	0.64	0.61	0.65	0.61	0.58	0.55

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



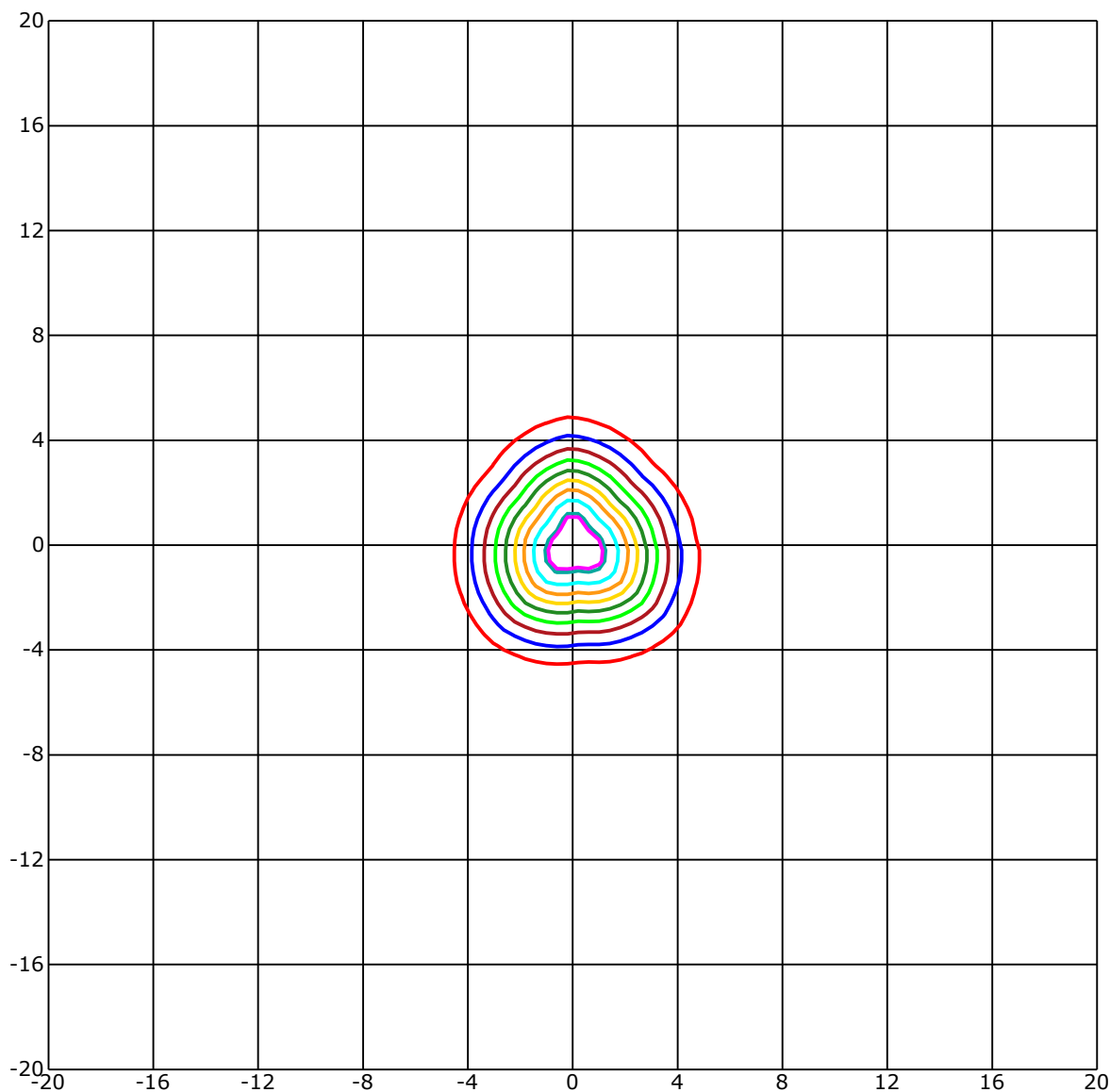
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/1/7 17:29:42

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 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: 2025/1/7 17:29:42

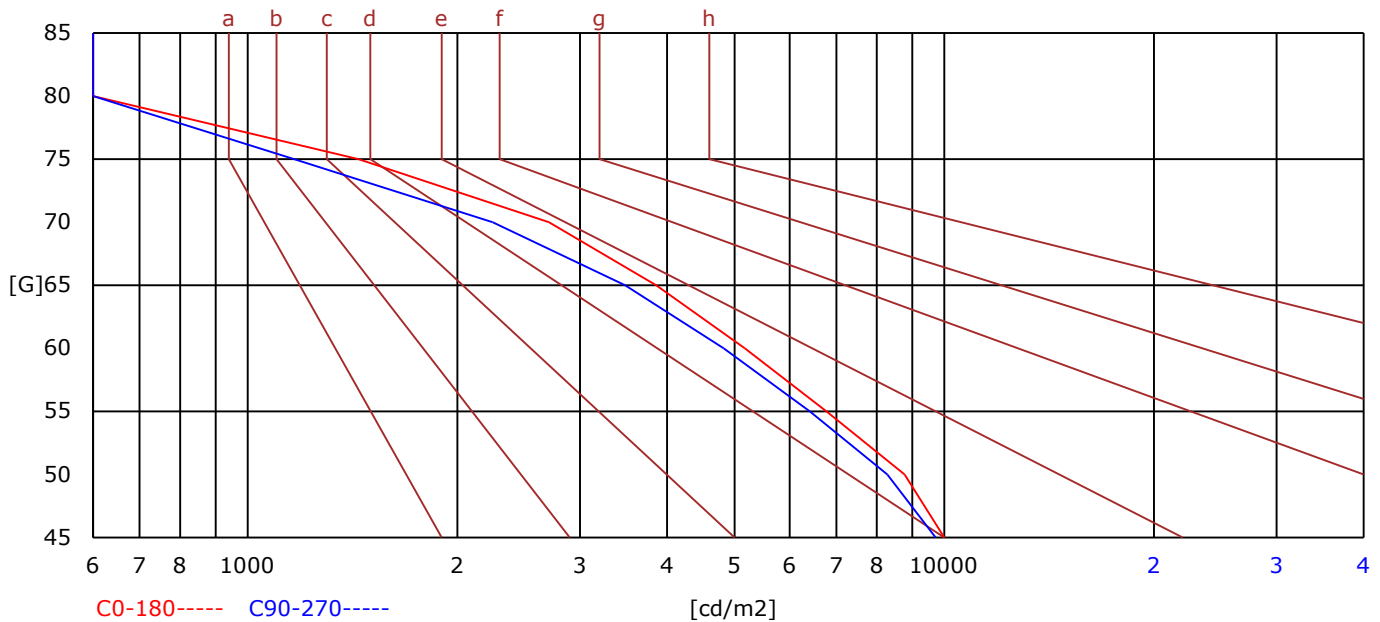
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 m
Remarks:

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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	10005	8772	6775	5171	3858	2709	1443	41	0
C90	9721	8280	6411	4827	3484	2247	1166	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



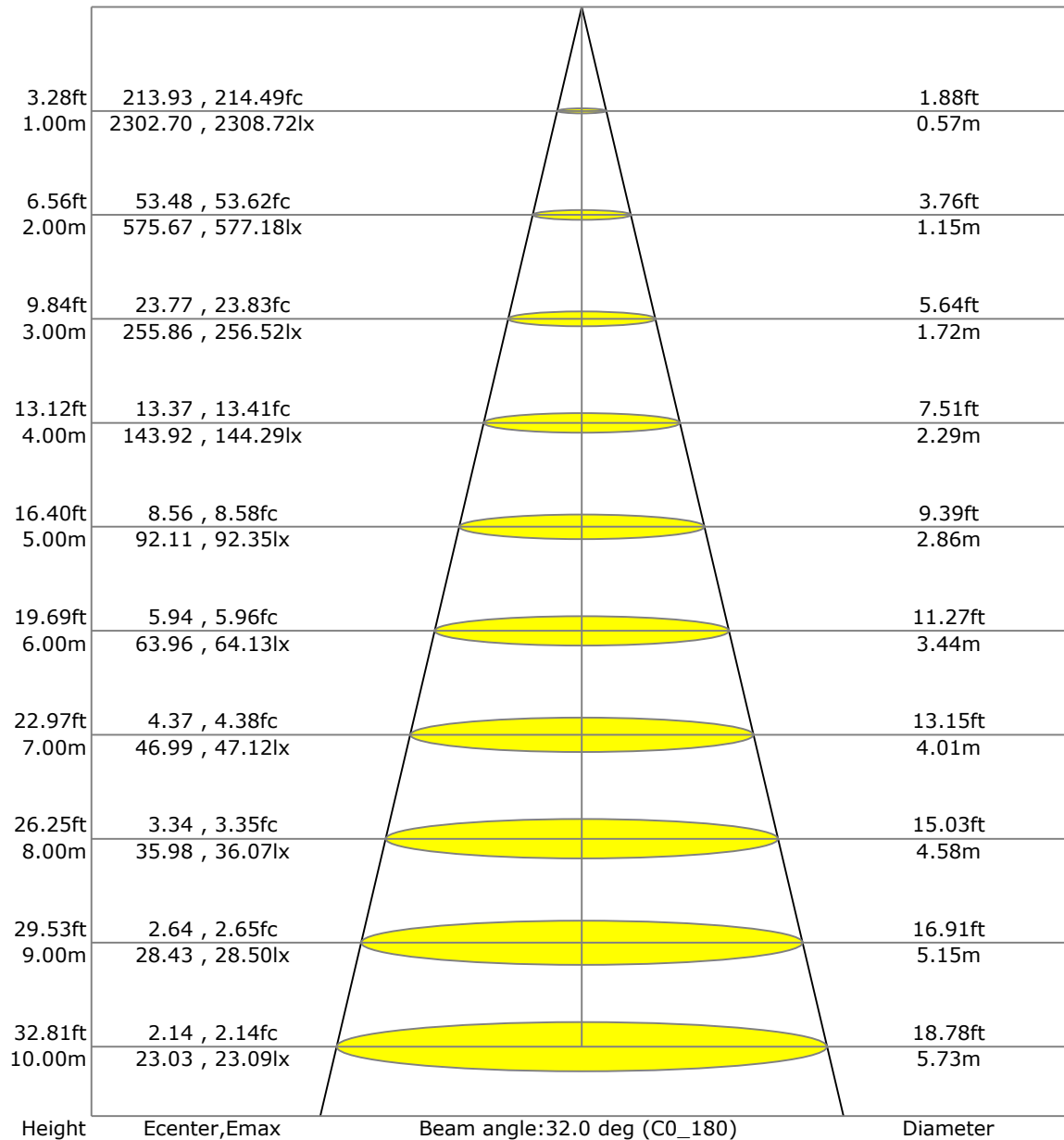
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 m
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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/1/7 17:29:42

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 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	10.63	10.69	10.83	10.88	11.12	10.98	11.04	11.18	11.23	11.47
3H	10.68	10.74	10.89	10.93	11.17	11.00	11.06	11.21	11.25	11.50
4H	10.67	10.73	10.88	10.93	11.18	10.99	11.05	11.21	11.25	11.50
6H	10.66	10.72	10.88	10.92	11.17	10.98	11.04	11.19	11.24	11.49
8H	10.65	10.71	10.87	10.91	11.17	10.97	11.03	11.19	11.23	11.48
12H	10.64	10.70	10.86	10.91	11.16	10.96	11.02	11.18	11.22	11.48
4H 2H	11.33	11.38	11.54	11.58	11.83	11.98	12.04	12.19	12.24	12.49
3H	11.39	11.45	11.61	11.65	11.91	12.03	12.09	12.25	12.29	12.55
4H	11.38	11.44	11.61	11.66	11.91	12.01	12.07	12.24	12.29	12.54
6H	11.37	11.42	11.61	11.65	11.91	11.99	12.05	12.23	12.27	12.53
8H	11.36	11.41	11.60	11.64	11.90	11.98	12.04	12.22	12.26	12.53
12H	11.34	11.40	11.59	11.63	11.90	11.97	12.02	12.22	12.25	12.52
8H 4H	11.33	11.39	11.55	11.59	11.85	12.14	12.20	12.36	12.40	12.65
6H	11.36	11.42	11.62	11.65	11.93	12.17	12.22	12.42	12.46	12.73
8H	11.35	11.40	11.61	11.65	11.92	12.15	12.20	12.41	12.45	12.73
12H	11.33	11.38	11.60	11.64	11.92	12.13	12.18	12.40	12.44	12.72
12H 4H	11.37	11.43	11.62	11.66	11.93	12.24	12.30	12.49	12.53	12.80
6H	11.35	11.40	11.61	11.64	11.92	12.22	12.27	12.48	12.52	12.79

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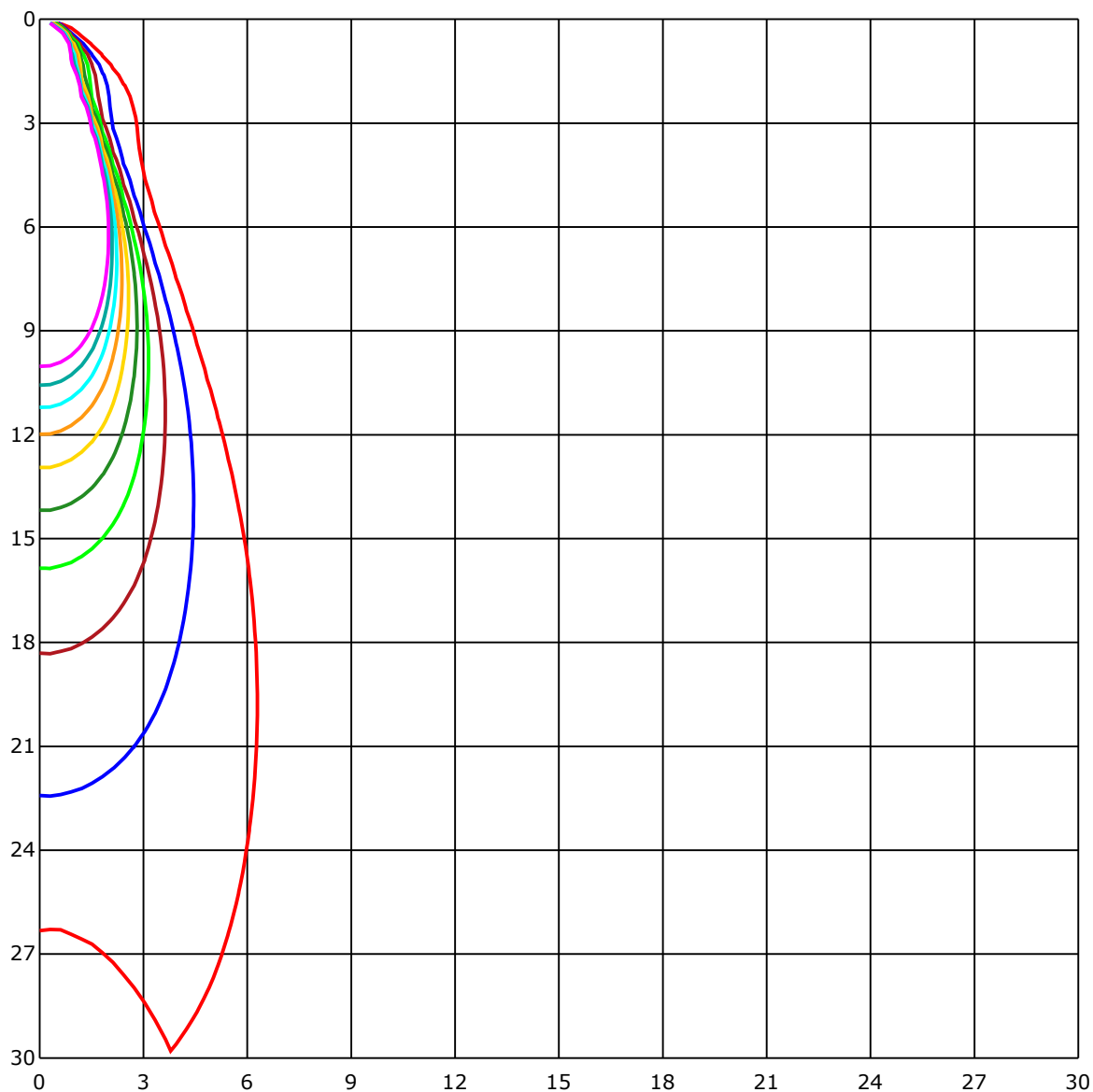
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 m
Remarks:

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Humidity: 60
Test Distance: 6.78 m
Remarks:

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SPACE ISOLX DIAGRAM



Unit of illumination:lx

22.912	11.456
20.621	9.165
18.329	6.874
16.038	4.582
13.747	2.291

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Humidity: 60
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Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	2302.7	2287.57	2293.78	2281.41	2302.7	2287.57	2293.78	2281.41	2302.7	
G1	2308.72	2272.72	2301.18	2254.43	2296.4	2292.63	2275.25	2295.57	2308.72	
G2	2292.58	2247.67	2302.47	2220.83	2275.94	2292.22	2255.12	2300.72	2292.58	
G3	2276.22	2206.81	2293.32	2174.67	2244.91	2277.0	2214.16	2295.85	2276.22	
G4	2244.87	2161.66	2270.89	2123.33	2201.84	2256.64	2167.59	2285.64	2244.87	
G5	2204.88	2110.59	2238.94	2059.11	2157.11	2222.16	2115.47	2260.45	2204.88	
G6	2158.4	2049.23	2200.6	1985.15	2093.03	2185.29	2057.18	2226.85	2158.4	
G7	2100.66	1973.79	2149.44	1902.13	2024.68	2135.83	1981.88	2188.37	2100.66	
G8	2032.49	1885.62	2092.9	1812.3	1936.47	2072.99	1900.52	2136.75	2032.49	
G9	1956.14	1788.86	2017.51	1714.3	1846.74	1999.86	1809.82	2079.43	1956.14	
G10	1869.12	1681.43	1934.95	1603.24	1747.72	1920.47	1714.9	2008.64	1869.12	
G11	1771.81	1565.96	1837.73	1494.48	1641.49	1823.52	1603.75	1929.57	1771.81	
G12	1664.56	1449.61	1738.57	1379.19	1527.21	1722.76	1494.02	1840.81	1664.56	
G13	1555.57	1332.72	1628.29	1270.11	1415.78	1614.69	1379.56	1738.99	1555.57	
G14	1440.37	1222.44	1517.1	1157.21	1306.61	1505.74	1269.37	1637.26	1440.37	
G15	1328.53	1112.39	1405.44	1052.45	1197.16	1391.88	1158.36	1531.02	1328.53	
G16	1214.76	1007.12	1292.68	943.32	1091.01	1284.22	1051.8	1421.9	1214.76	
G17	1104.85	905.21	1182.63	841.41	987.31	1180.84	943.46	1313.92	1104.85	
G18	996.09	803.8	1073.82	735.68	884.25	1075.75	839.34	1204.28	996.09	
G19	890.5	701.71	964.97	634.96	780.36	967.08	734.07	1094.69	890.5	
G20	788.5	603.89	859.15	539.3	675.55	860.34	634.87	986.8	788.5	
G21	690.72	506.71	754.71	450.21	574.74	753.15	538.29	880.39	690.72	
G22	591.34	416.75	652.61	370.32	479.63	648.61	448.61	774.43	591.34	
G23	496.46	335.57	554.1	302.24	393.26	546.33	367.33	673.76	496.46	
G24	407.42	266.3	463.55	244.64	318.29	449.66	296.96	570.47	407.42	
G25	329.36	212.93	381.22	200.01	257.84	363.66	238.81	477.34	329.36	
G26	264.87	173.35	311.9	165.03	210.08	292.41	193.48	395.05	264.87	
G27	215.41	143.38	254.34	138.73	174.22	234.94	159.69	325.04	215.41	
G28	176.66	121.45	210.21	118.83	147.01	191.37	134.27	266.98	176.66	
G29	147.19	105.18	175.83	103.98	127.47	159.46	114.74	221.48	147.19	
G30	124.3	93.68	150.04	92.4	113.63	135.74	100.49	184.98	124.3	
G31	107.57	84.95	129.54	84.31	102.6	118.55	89.73	157.12	107.57	
G32	95.57	77.82	114.6	77.59	94.19	106.05	81.87	135.56	95.57	
G33	86.74	72.68	103.29	72.58	87.8	96.72	75.99	119.7	86.74	
G34	79.11	68.36	94.51	68.22	82.93	89.73	71.16	107.15	79.11	
G35	73.6	64.77	87.39	65.0	78.79	84.26	67.21	97.68	73.6	
G36	68.95	62.15	81.73	61.78	74.88	79.71	64.13	89.96	68.95	

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Test System: Huipu CPM-1600B Goniophotometer
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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	65.32	59.99	77.18	59.3	72.17	76.08	61.51	83.8	65.32	
G38	62.38	58.01	73.78	57.23	69.41	73.32	59.39	78.7	62.38	
G39	59.9	56.13	70.65	55.48	67.44	70.79	57.51	75.02	59.9	
G40	57.83	54.52	68.26	53.42	64.82	68.36	55.81	71.53	57.83	
G41	56.08	52.63	65.69	51.67	62.88	66.33	54.06	68.72	56.08	
G42	54.33	51.02	63.48	49.65	60.68	64.22	52.59	66.29	54.33	
G43	52.63	49.05	61.28	47.72	58.84	62.01	50.8	64.45	52.63	
G44	50.93	47.12	59.21	45.69	56.54	60.17	48.96	62.06	50.93	
G45	49.23	45.28	57.09	43.99	54.75	58.06	46.93	60.13	49.23	
G46	47.12	43.62	55.07	42.2	52.73	56.5	45.37	58.06	47.12	
G47	45.42	41.79	53.14	40.41	51.02	54.43	43.62	56.17	45.42	
G48	43.62	39.9	51.35	38.57	48.77	52.45	42.06	54.15	43.62	
G49	41.92	37.97	49.0	36.59	46.52	50.57	40.18	52.45	41.92	
G50	40.08	36.09	46.66	34.06	44.45	48.77	38.43	50.24	40.08	
G51	38.29	33.56	44.31	31.81	41.88	46.57	36.04	48.04	38.29	
G52	36.13	31.17	41.97	29.56	39.26	44.31	33.74	45.92	36.13	
G53	33.79	28.91	39.3	27.44	36.87	41.65	31.44	43.81	33.79	
G54	31.3	26.89	36.91	25.33	34.48	39.26	29.37	41.37	31.3	
G55	29.1	24.87	34.43	23.54	32.27	36.82	27.03	38.8	29.1	
G56	27.03	23.03	32.32	21.56	30.02	34.57	25.1	36.36	27.03	
G57	25.05	21.19	30.29	20.0	28.18	32.18	23.26	34.15	25.05	
G58	23.08	19.63	28.32	18.34	26.34	30.25	21.42	31.86	23.08	
G59	21.51	17.93	26.39	16.92	24.64	28.13	19.9	29.97	21.51	
G60	19.72	16.55	24.73	15.45	22.85	26.34	18.3	27.95	19.72	
G61	18.16	15.12	22.89	14.07	21.24	24.46	16.96	26.11	18.16	
G62	16.87	13.88	21.28	12.73	19.81	22.8	15.45	24.23	16.87	
G63	15.26	12.69	19.77	11.63	18.39	21.24	14.16	22.71	15.26	
G64	14.11	11.45	18.43	10.53	17.05	19.77	12.83	21.01	14.11	
G65	12.78	10.43	17.24	9.42	15.68	18.34	11.54	19.58	12.78	
G66	11.58	9.38	15.86	8.32	14.48	17.05	10.43	18.25	11.58	
G67	10.62	8.27	14.62	7.4	13.42	15.72	9.42	16.96	10.62	
G68	9.47	7.45	13.56	6.53	12.27	14.39	8.46	15.68	9.47	
G69	8.37	6.62	12.37	5.79	11.4	13.28	7.45	14.43	8.37	
G70	7.35	5.93	11.49	4.92	10.34	12.37	6.57	13.19	7.35	
G71	6.76	5.06	10.34	4.28	9.47	11.26	5.7	12.32	6.76	
G72	5.79	4.37	9.47	3.54	8.55	10.25	5.01	11.12	5.79	
G73	4.96	3.59	8.64	2.8	7.81	9.29	4.23	10.2	4.96	

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G Range: 0 - 90 Deg
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Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 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: 2025/1/7 17:29:42

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 m
Remarks: