

Report No.:

Test Time: 2025/2/11 18:45:31

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP104SCT120H140-15°-40W
Lamp Type:
Luminous Width: 111 mm
Luminous Length: 111 mm
Luminous Height: 105 mm

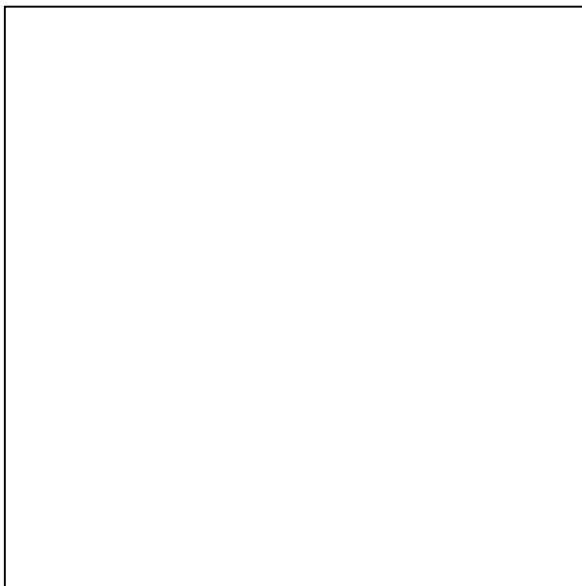
Voltage(V): 220.10 V
Current(A): 0.1810 A
Power(W): 38.89 W
Power Factor: 0.9730
Lamp Luminous Flux: 3393.48

Photometric Results

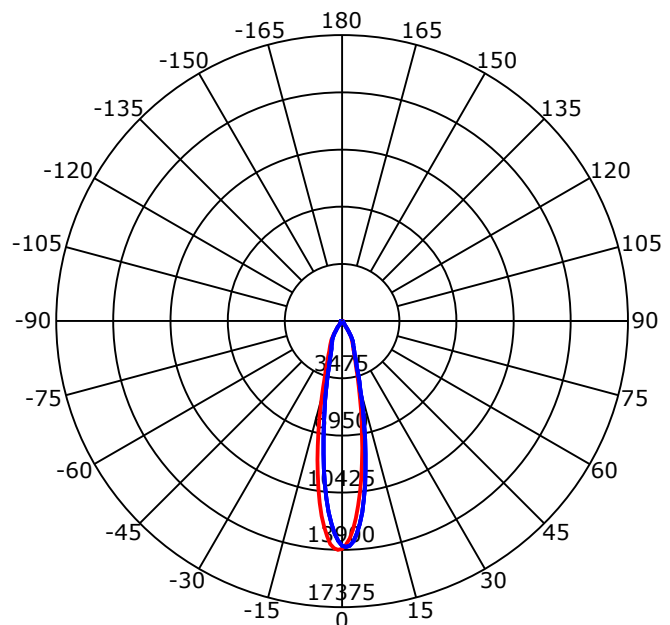
CIE Class: Direct
Luminaire Luminous Flux: 3393.48 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 87.26 lm/W
Beam Angle(50%) C0-180,C90-270: 22.0,21.0
Field Angle(10%) C0-180,C90-270: 55.0,54.5
S/MH C0-180,C90-270: 0.389,0.353

Max. Intensity: 13899.67 cd
Max.Intensity Angle: C=180 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 13837.89 cd
Effective Luminous Flux: 2691.80 lm
ERP(ϕ use)(120deg): 3370.51 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 22.0 deg,21.0 deg

C0-180 — C90-270 —

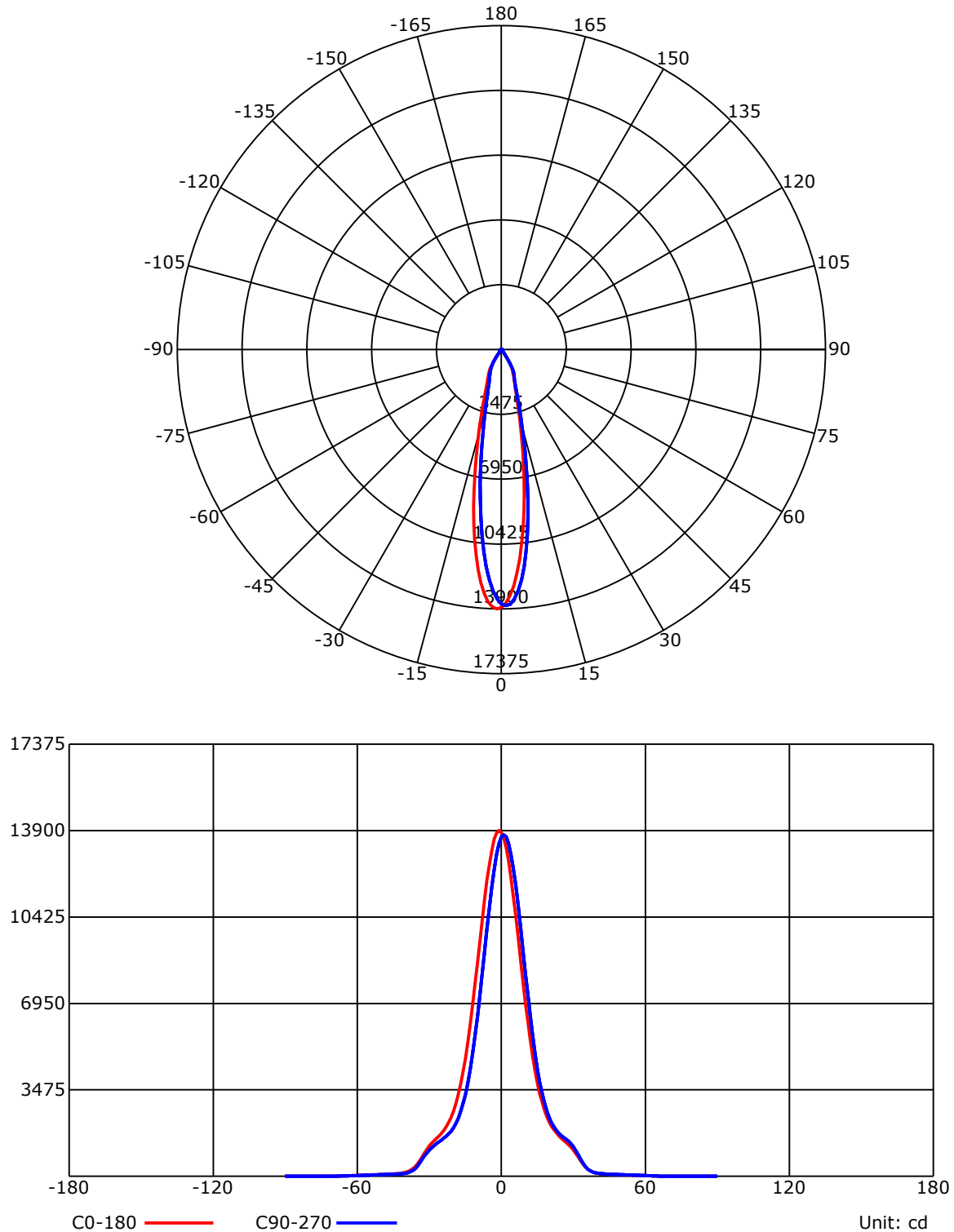
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/2/11 18:45:31

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



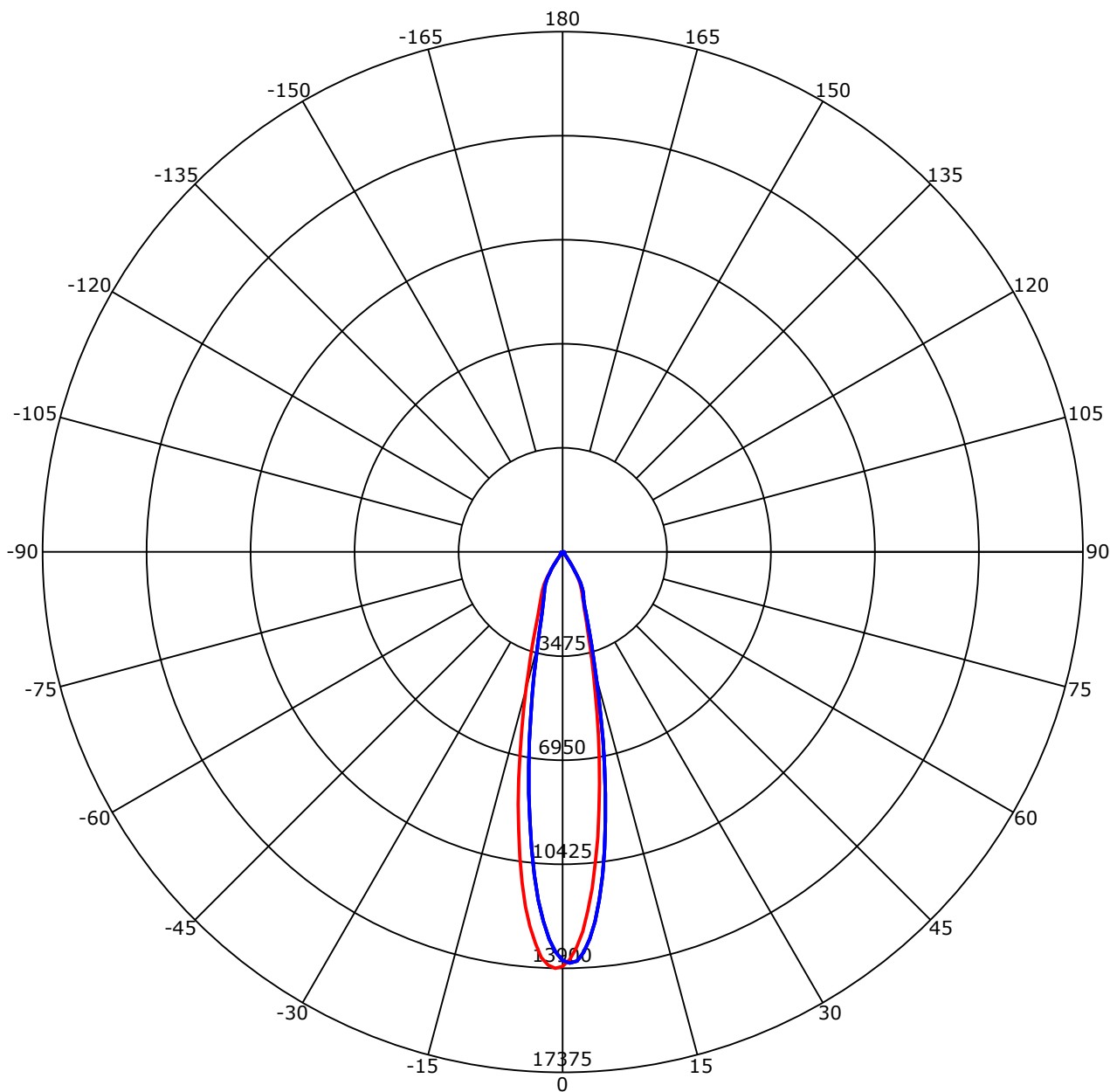
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C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/2/11 18:45:31

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Test System: Huipu CPM-1600B Goniophotometer
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Test Distance: 6.87 m
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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: 2025/2/11 18:45:31

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

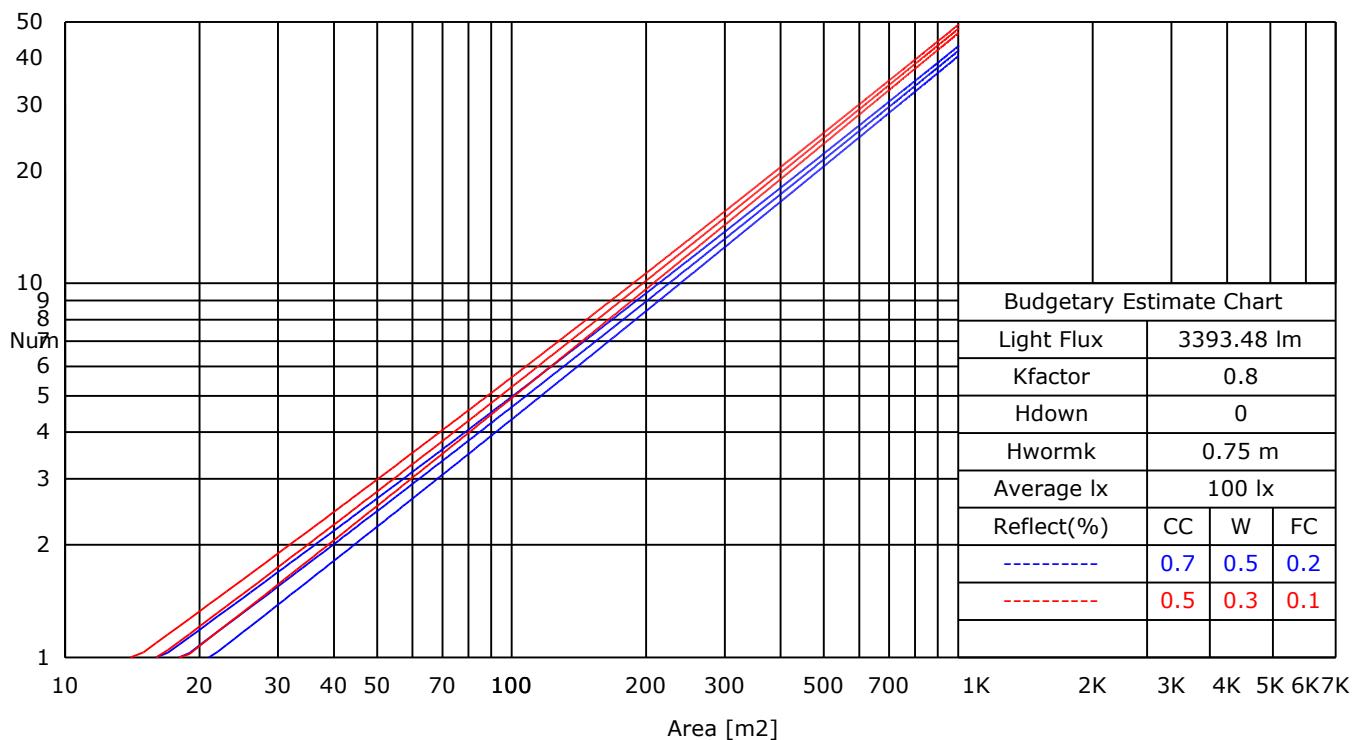
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UTILIZATION FACTORS TABLE

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	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	0.90	0.87	0.84	0.89	0.86	0.83	0.87	0.83	0.79	0.83	0.79	0.75	0.78	0.74	0.70	0.65
2	0.86	0.83	0.81	0.85	0.82	0.79	0.83	0.79	0.76	0.80	0.76	0.72	0.76	0.71	0.67	0.63
3	0.82	0.80	0.78	0.82	0.79	0.76	0.80	0.76	0.73	0.77	0.73	0.70	0.74	0.69	0.65	0.61
4	0.79	0.77	0.76	0.79	0.76	0.74	0.77	0.74	0.71	0.75	0.71	0.67	0.72	0.67	0.63	0.59
5	0.77	0.75	0.73	0.76	0.74	0.72	0.75	0.71	0.69	0.73	0.68	0.65	0.70	0.65	0.61	0.57
6	0.74	0.73	0.71	0.74	0.72	0.70	0.73	0.69	0.67	0.71	0.66	0.63	0.68	0.63	0.60	0.56
7	0.72	0.71	0.70	0.72	0.70	0.68	0.71	0.67	0.65	0.69	0.65	0.62	0.67	0.62	0.58	0.55
8	0.71	0.69	0.68	0.70	0.68	0.66	0.69	0.66	0.63	0.67	0.63	0.60	0.65	0.60	0.57	0.53
9	0.69	0.67	0.66	0.68	0.66	0.65	0.67	0.64	0.62	0.65	0.61	0.59	0.64	0.59	0.55	0.52
10	0.67	0.66	0.65	0.67	0.65	0.63	0.65	0.62	0.60	0.64	0.60	0.57	0.62	0.58	0.54	0.51

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



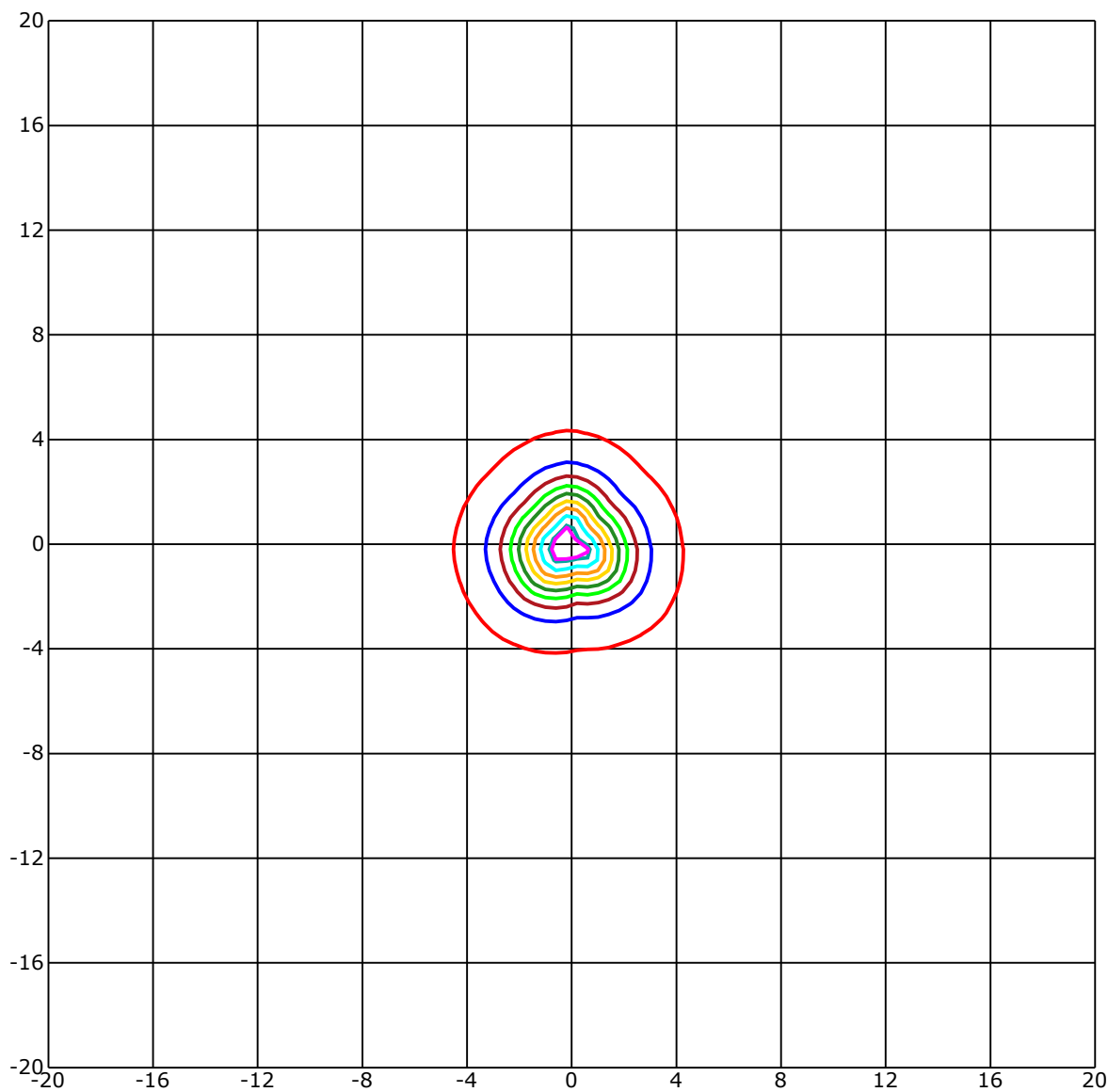
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C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/2/11 18:45:31

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: 2025/2/11 18:45:31

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.87 m

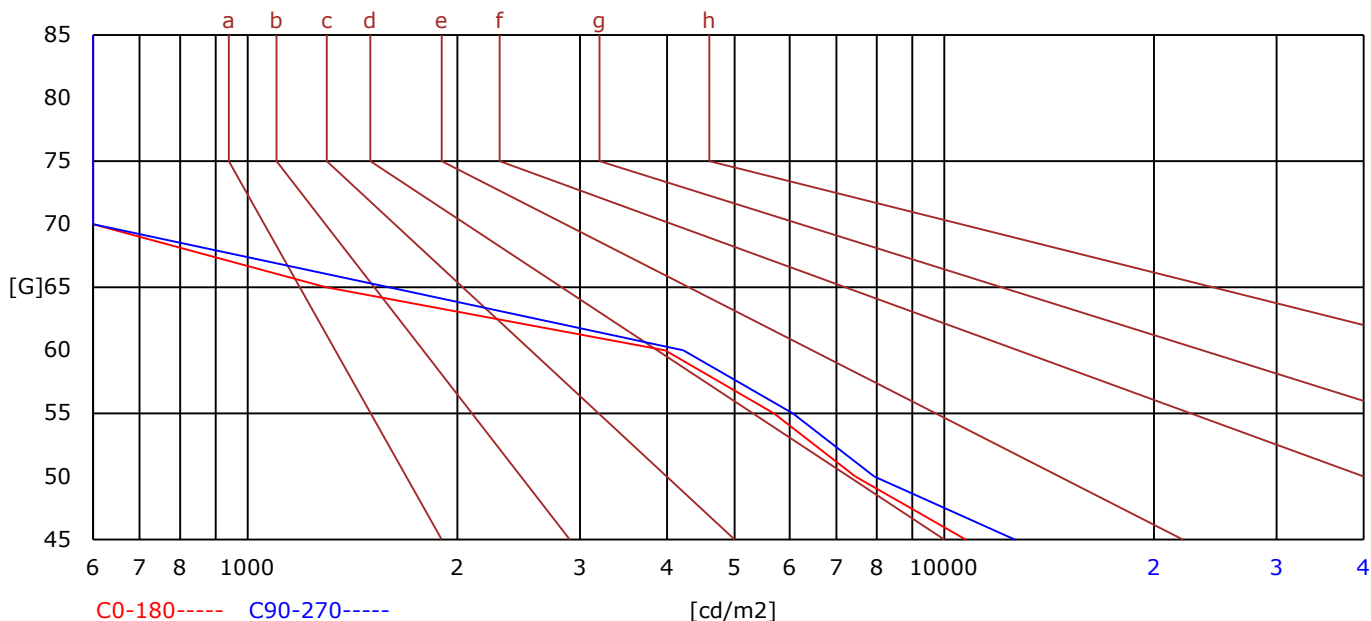
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	10732	7449	5697	3976	1296	0	0	0	0
C90	12622	7932	6064	4221	1595	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



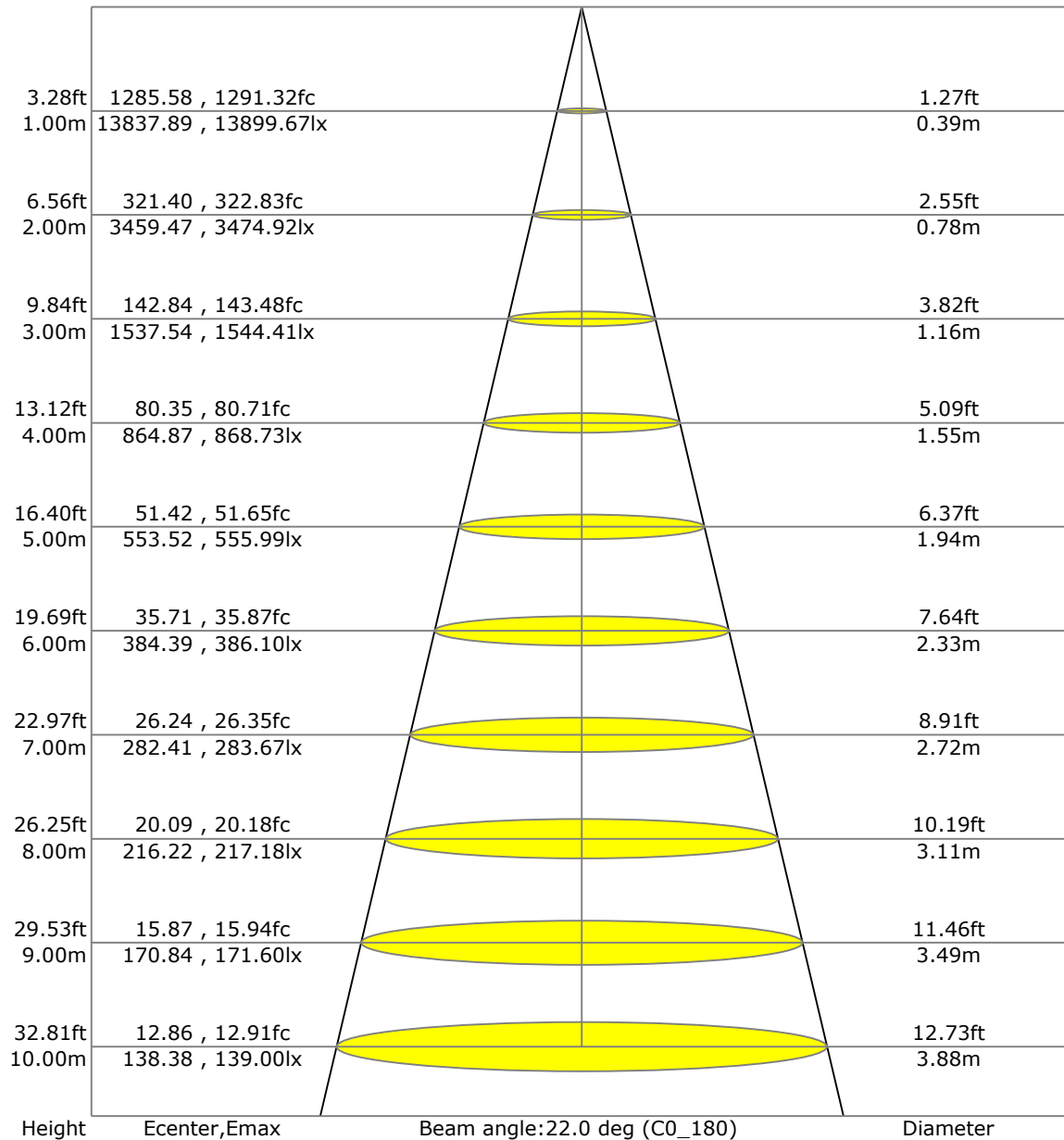
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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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: 2025/2/11 18:45:31

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	7.61	7.67	7.81	7.86	8.10	7.65	7.71	7.85	7.90	8.14
3H	7.58	7.64	7.79	7.84	8.08	7.63	7.69	7.84	7.88	8.13
4H	7.57	7.63	7.78	7.83	8.07	7.61	7.68	7.82	7.87	8.12
6H	7.55	7.61	7.77	7.81	8.07	7.60	7.66	7.81	7.86	8.11
8H	7.54	7.60	7.76	7.81	8.06	7.59	7.65	7.81	7.85	8.11
12H	7.53	7.60	7.76	7.80	8.06	7.58	7.64	7.80	7.85	8.10
4H 2H	7.58	7.64	7.79	7.84	8.09	7.64	7.70	7.85	7.89	8.14
3H	7.55	7.61	7.77	7.82	8.07	7.60	7.66	7.82	7.87	8.13
4H	7.53	7.59	7.76	7.80	8.06	7.58	7.64	7.81	7.86	8.12
6H	7.51	7.57	7.74	7.79	8.05	7.56	7.62	7.80	7.84	8.11
8H	7.49	7.55	7.74	7.78	8.05	7.55	7.61	7.79	7.83	8.10
12H	7.48	7.54	7.73	7.77	8.04	7.53	7.59	7.78	7.82	8.09
8H 4H	7.56	7.62	7.78	7.82	8.08	7.61	7.67	7.83	7.88	8.13
6H	7.47	7.52	7.72	7.76	8.04	7.52	7.58	7.77	7.82	8.09
8H	7.45	7.51	7.71	7.75	8.03	7.50	7.56	7.77	7.81	8.08
12H	7.43	7.49	7.70	7.74	8.02	7.49	7.54	7.76	7.79	8.08
12H 4H	7.48	7.54	7.73	7.77	8.04	7.53	7.59	7.78	7.82	8.09
6H	7.45	7.51	7.71	7.75	8.03	7.50	7.56	7.77	7.81	8.08

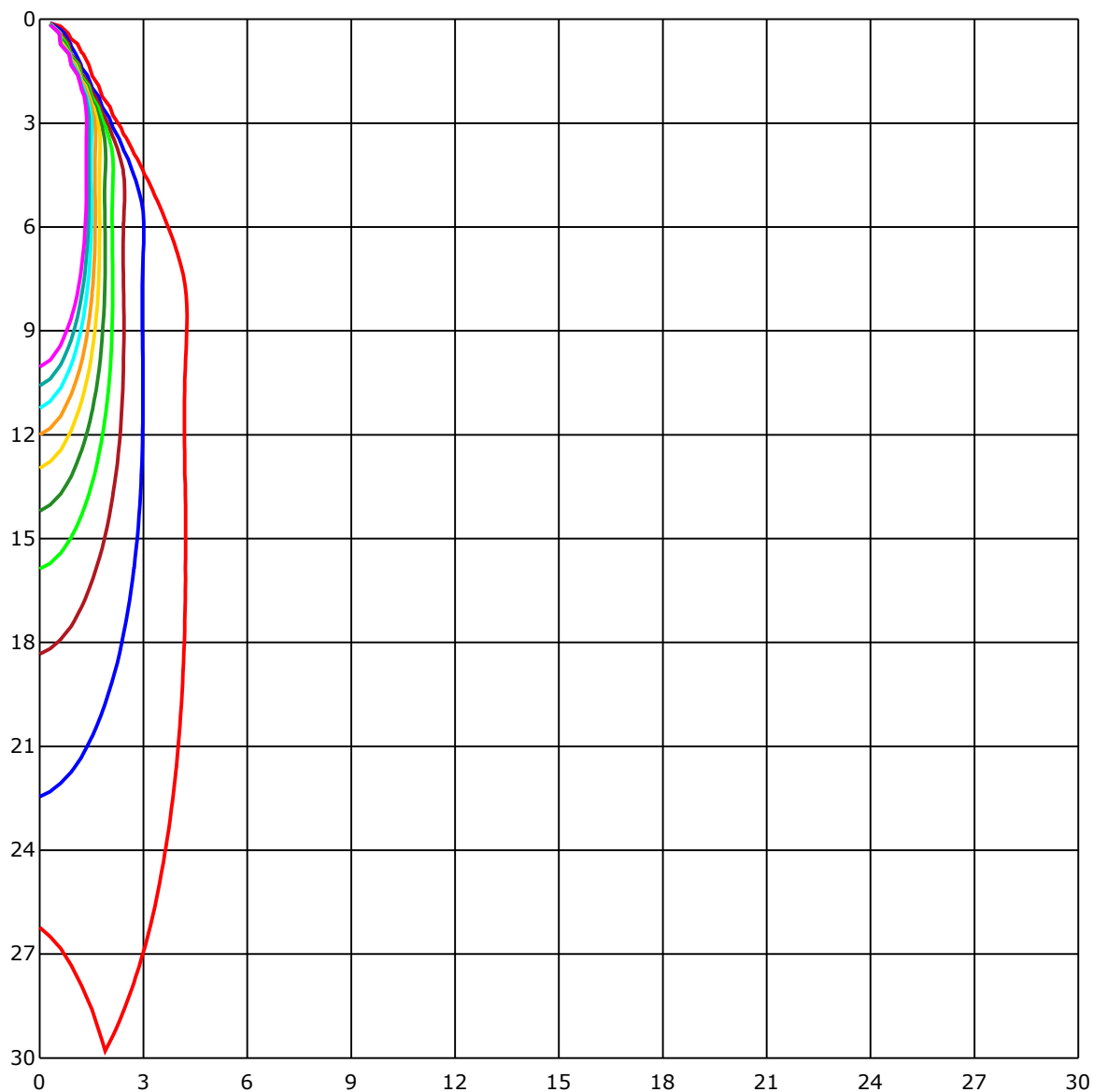
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G Interval: 1.0 Deg
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SPACE ISOLX DIAGRAM



Unit of illumination:lx

137.2	68.6
123.48	54.88
109.76	41.16
96.04	27.44
82.32	13.72

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/2/11 18:45:31

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 DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	13837.89	13201.21	13637.31	13830.82	13837.89	13201.21	13637.31	13830.82	13837.89	
G1	13600.02	12791.59	13724.39	13570.85	13899.67	13456.35	13360.59	13899.58	13600.02	
G2	13205.69	12244.48	13661.85	13205.74	13802.4	13506.15	12938.42	13799.76	13205.69	
G3	12692.05	11602.37	13383.48	12647.26	13561.89	13416.28	12334.72	13532.2	12692.05	
G4	12012.65	10830.98	12948.75	11995.42	13104.13	13151.13	11655.89	13098.7	12012.65	
G5	11259.62	10001.12	12385.88	11200.91	12550.79	12691.34	10830.27	12553.24	11259.62	
G6	10429.67	9129.44	11685.86	10371.8	11900.65	12118.32	9939.15	11886.82	10429.67	
G7	9604.66	8235.77	10883.65	9499.79	11118.65	11431.33	9029.62	11070.03	9604.66	
G8	8691.78	7382.26	10024.05	8626.56	10276.75	10633.18	8142.88	10238.38	8691.78	
G9	7839.08	6566.88	9098.24	7770.07	9409.79	9776.55	7255.63	9357.78	7839.08	
G10	7003.97	5798.66	8200.74	6935.73	8560.81	8895.53	6400.42	8481.19	7003.97	
G11	6216.78	5088.86	7312.5	6111.48	7690.45	8027.25	5617.0	7596.2	6216.78	
G12	5489.33	4457.75	6469.09	5385.87	6865.73	7159.44	4911.73	6768.46	5489.33	
G13	4836.22	3916.3	5681.37	4721.91	6088.78	6325.14	4281.23	5974.09	4836.22	
G14	4261.88	3436.03	4968.7	4160.88	5378.7	5569.52	3740.4	5255.8	4261.88	
G15	3759.28	3038.77	4324.89	3651.01	4729.46	4892.71	3279.0	4615.39	3759.28	
G16	3327.15	2698.67	3786.94	3226.05	4165.65	4275.99	2906.34	4065.31	3327.15	
G17	2968.4	2419.27	3323.23	2856.07	3678.2	3760.04	2581.81	3579.08	2968.4	
G18	2642.65	2185.5	2934.0	2558.59	3268.1	3298.03	2318.64	3176.02	2642.65	
G19	2390.0	2001.72	2611.07	2311.33	2909.45	2921.35	2109.56	2818.55	2390.0	
G20	2169.74	1853.0	2354.8	2112.77	2611.17	2600.93	1942.29	2531.59	2169.74	
G21	1997.99	1731.56	2138.68	1941.87	2364.38	2342.38	1809.67	2292.73	1997.99	
G22	1847.85	1632.35	1969.1	1806.84	2158.22	2140.0	1702.72	2097.76	1847.85	
G23	1731.47	1549.52	1829.4	1690.92	1986.0	1972.36	1613.19	1939.42	1731.47	
G24	1623.57	1468.48	1720.8	1595.96	1844.13	1838.41	1533.81	1814.96	1623.57	
G25	1526.54	1396.51	1636.27	1506.48	1726.6	1725.57	1455.74	1695.08	1526.54	
G26	1438.66	1322.5	1557.69	1427.9	1622.2	1632.54	1387.92	1598.51	1438.66	
G27	1351.15	1247.37	1482.88	1350.63	1526.16	1552.4	1312.22	1509.59	1351.15	
G28	1264.26	1168.31	1405.57	1273.33	1434.74	1473.06	1235.0	1428.84	1264.26	
G29	1170.29	1085.2	1308.25	1188.18	1341.62	1401.7	1147.69	1346.72	1170.29	
G30	1051.41	989.11	1185.49	1102.9	1232.41	1318.78	1054.52	1259.03	1051.41	
G31	913.17	889.8	1032.15	1003.64	1092.14	1241.14	948.52	1175.58	913.17	
G32	765.49	789.04	859.6	902.69	939.64	1150.85	826.56	1080.34	765.49	
G33	621.77	688.6	683.93	796.64	783.85	1053.01	686.1	975.28	621.77	
G34	488.2	586.75	524.59	696.96	631.64	943.42	538.14	872.91	488.2	
G35	375.12	494.34	387.91	597.98	497.22	837.65	401.32	770.21	375.12	
G36	285.16	409.01	290.83	504.63	384.28	728.3	298.71	670.53	285.16	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/2/11 18:45:31

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	222.77	338.45	221.4	418.45	301.07	623.75	227.91	573.82	222.77	
G38	176.33	280.59	175.1	349.73	237.68	527.28	178.59	489.15	176.33	
G39	143.24	233.15	143.62	293.0	191.71	441.1	144.47	411.56	143.24	
G40	120.21	196.76	124.36	246.98	158.35	371.01	123.28	350.67	120.21	
G41	106.0	166.46	112.19	207.15	138.1	311.26	107.7	297.48	106.0	
G42	95.29	140.08	103.64	175.71	123.18	264.02	100.06	256.18	95.29	
G43	90.05	120.78	95.24	149.1	113.04	225.74	92.88	221.68	90.05	
G44	82.31	105.25	89.39	127.95	105.72	194.4	88.21	193.88	82.31	
G45	77.4	93.5	84.77	109.97	99.49	169.81	83.54	170.24	77.4	
G46	73.39	83.07	81.46	95.57	93.78	150.94	78.72	152.12	73.39	
G47	70.8	75.33	77.5	83.21	88.54	136.54	74.29	136.45	70.8	
G48	65.46	68.77	72.87	75.52	83.68	123.7	71.55	125.07	65.46	
G49	62.06	64.66	68.86	66.74	80.23	114.36	67.3	115.16	62.06	
G50	59.47	59.0	66.36	62.82	75.18	105.91	64.42	106.57	59.47	
G51	55.88	56.16	61.92	58.48	71.5	99.54	60.98	98.88	55.88	
G52	52.67	51.26	58.71	53.85	68.11	94.21	58.29	94.35	52.67	
G53	50.36	48.14	55.36	49.32	63.76	89.25	54.56	87.64	50.36	
G54	46.63	44.27	52.01	45.97	60.18	83.16	51.78	82.78	46.63	
G55	44.08	40.26	48.19	42.85	56.87	78.49	48.52	78.44	44.08	
G56	40.78	36.96	44.84	38.98	52.58	73.01	46.25	73.49	40.78	
G57	37.62	33.65	41.49	35.44	50.5	70.09	42.38	67.96	37.62	
G58	32.85	30.25	38.28	31.86	45.26	64.0	39.03	64.14	32.85	
G59	29.97	26.95	33.23	29.21	41.82	60.51	35.96	59.61	29.97	
G60	25.53	24.5	29.59	26.01	37.29	57.3	31.95	57.11	25.53	
G61	22.37	20.86	25.58	22.51	34.83	52.86	28.27	52.44	22.37	
G62	17.6	17.04	20.81	19.3	29.4	48.8	25.91	48.9	17.6	
G63	13.31	14.87	14.73	15.67	24.68	45.31	21.14	44.79	13.31	
G64	9.2	10.29	11.85	12.32	21.05	41.77	17.09	41.34	9.2	
G65	7.13	6.75	10.67	8.31	16.33	38.23	12.18	37.9	7.13	
G66	5.05	3.73	7.41	4.91	14.63	34.69	10.52	34.03	5.05	
G67	3.59	1.84	5.76	1.94	11.99	32.33	9.39	30.25	3.59	
G68	2.64	1.04	4.81	0.42	10.71	27.61	7.17	27.19	2.64	
G69	1.51	0.0	3.11	0.0	9.01	25.91	5.14	24.07	1.51	
G70	0.38	0.0	2.08	0.0	6.75	20.25	4.25	20.2	0.38	
G71	0.0	0.0	1.7	0.0	5.52	17.65	2.83	16.52	0.0	
G72	0.0	0.0	1.23	0.0	5.52	15.57	2.83	15.1	0.0	
G73	0.0	0.0	0.38	0.0	5.38	13.88	2.64	12.74	0.0	

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:

Test Time: 2025/2/11 18:45:31

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

[illegible]

Remarks: