

Report No.:

Test Time: 2025/1/7 17:35:57

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP110CT075H113-38°-15W
Lamp Type:
Luminous Width: 80 mm
Luminous Length: 80 mm
Luminous Height: 91 mm

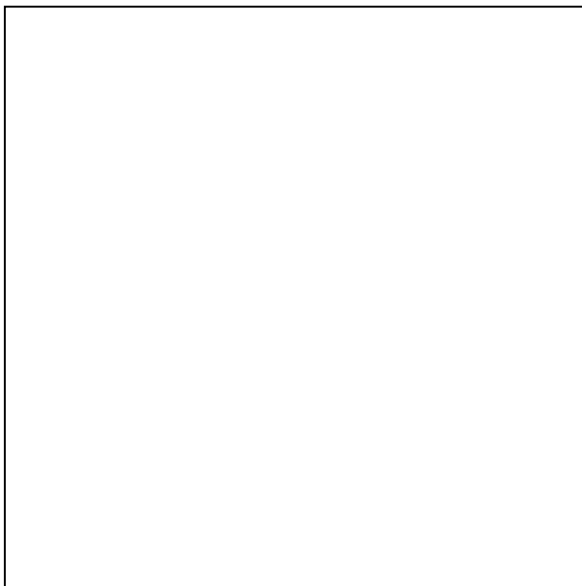
Voltage(V): 219.90 V
Current(A): 0.0730 A
Power(W): 15.39 W
Power Factor: 0.9520
Lamp Luminous Flux: 1095.99

Photometric Results

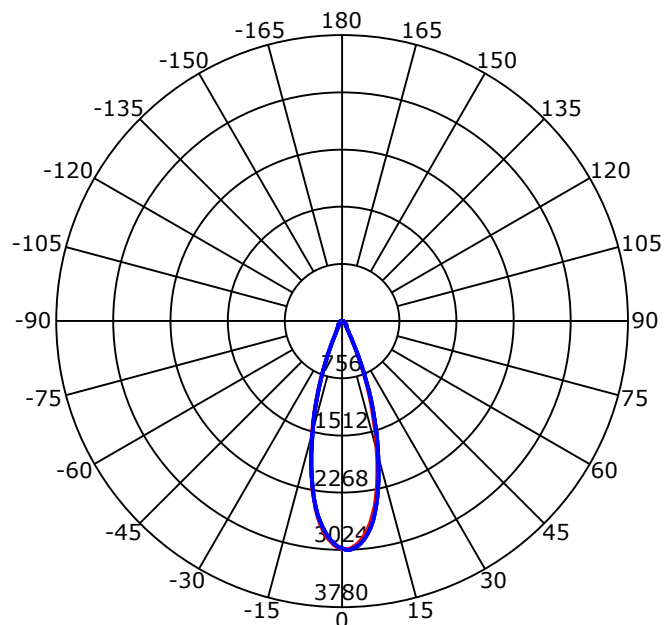
CIE Class: Direct
Luminaire Luminous Flux: 1095.985 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 71.23 lm/W
Beam Angle(50%) C0-180,C90-270: 32.0,32.3
Field Angle(10%) C0-180,C90-270: 52.2,52.7
S/MH C0-180,C90-270: 0.536,0.536

Max. Intensity: 3024.12 cd
Max.Intensity Angle: C=90 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 3016.17 cd
Effective Luminous Flux: 869.14 lm
ERP(ϕ use)(120deg): 1067.49 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 32.0 deg,32.3 deg

C0-180 — C90-270

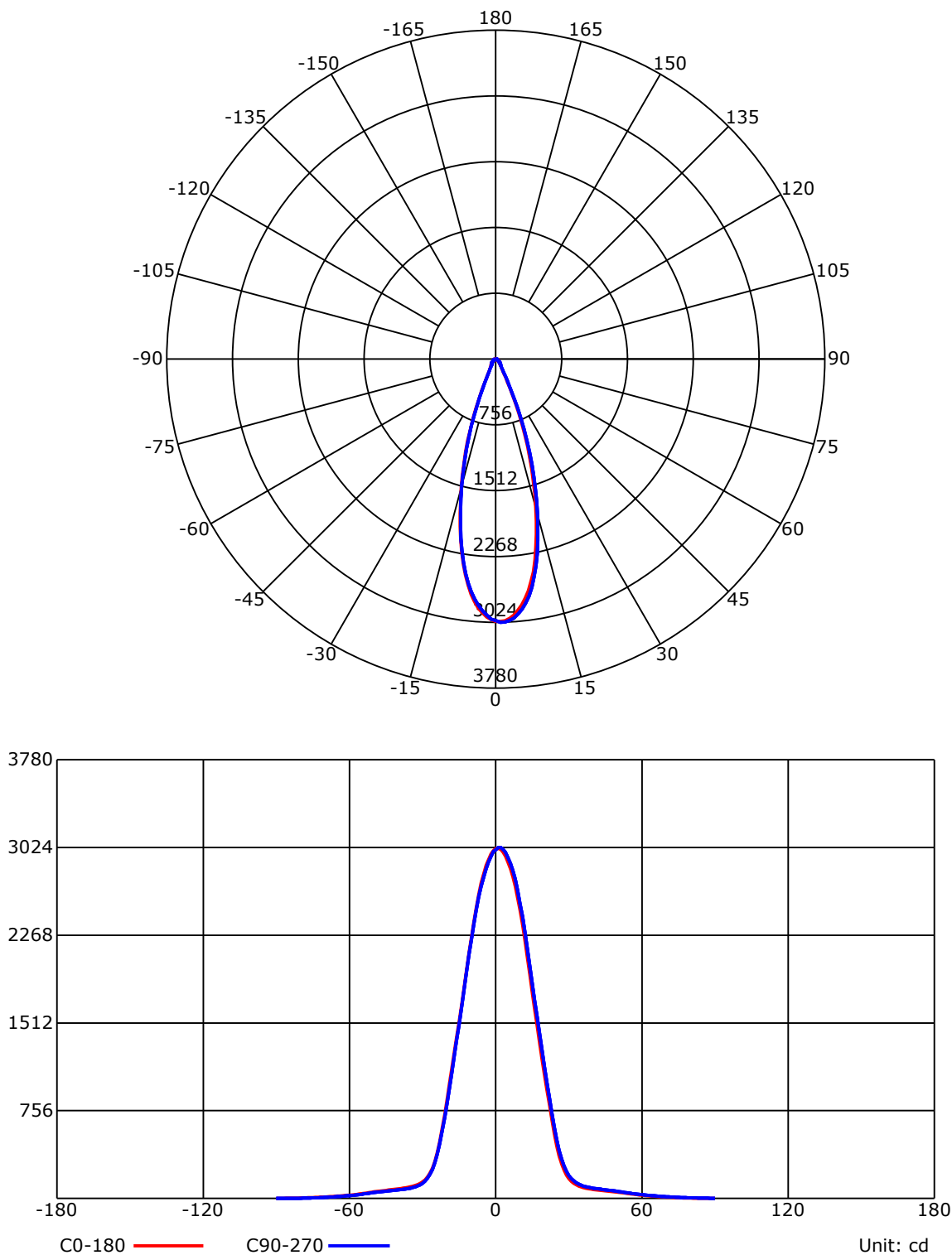
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/1/7 17:35:57

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

Report No.:

Test Time: 2025/1/7 17:35:57

Luminous Intensity Distribution Curve



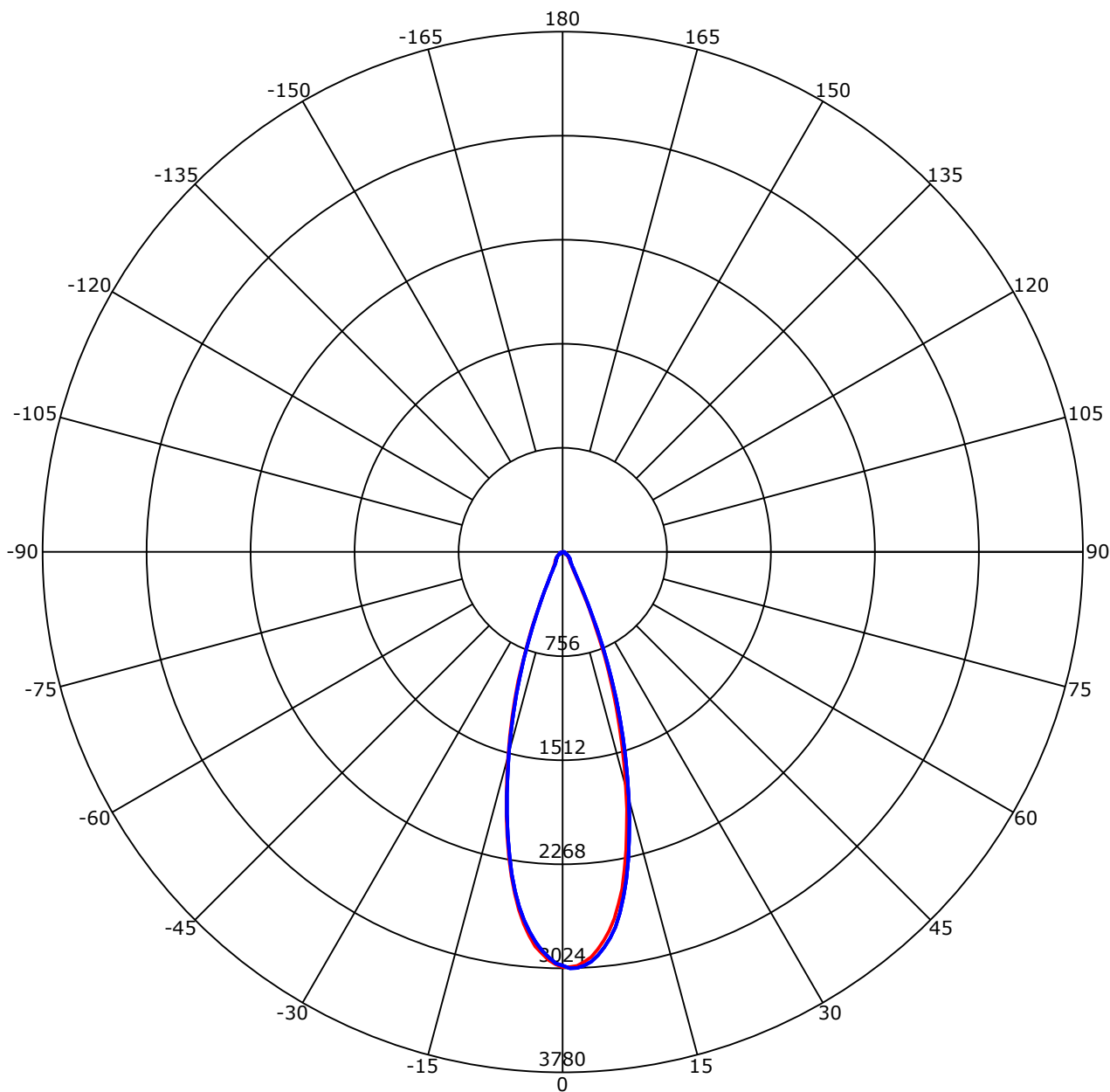
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/1/7 17:35:57

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 17:35:57

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

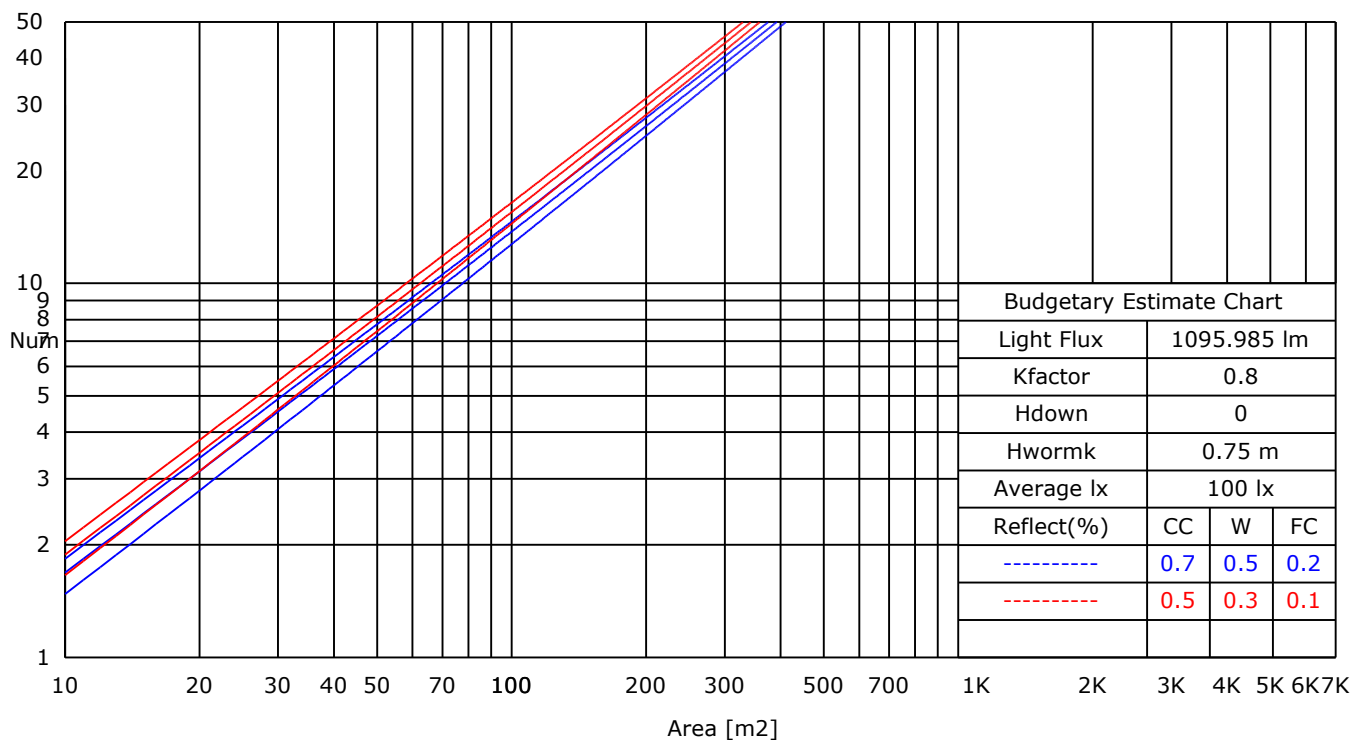
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UTILIZATION FACTORS TABLE

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	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	0.95	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	0.78	0.81	0.78	0.75	0.78	0.74	0.71	0.75	0.71	0.67	0.63
5	0.81	0.79	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	0.59
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	0.72	0.69	0.67	0.70	0.67	0.64	0.68	0.64	0.60	0.57
9	0.73	0.72	0.71	0.72	0.71	0.69	0.71	0.68	0.66	0.69	0.65	0.62	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	0.67	0.64	0.61	0.65	0.61	0.58	0.55

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



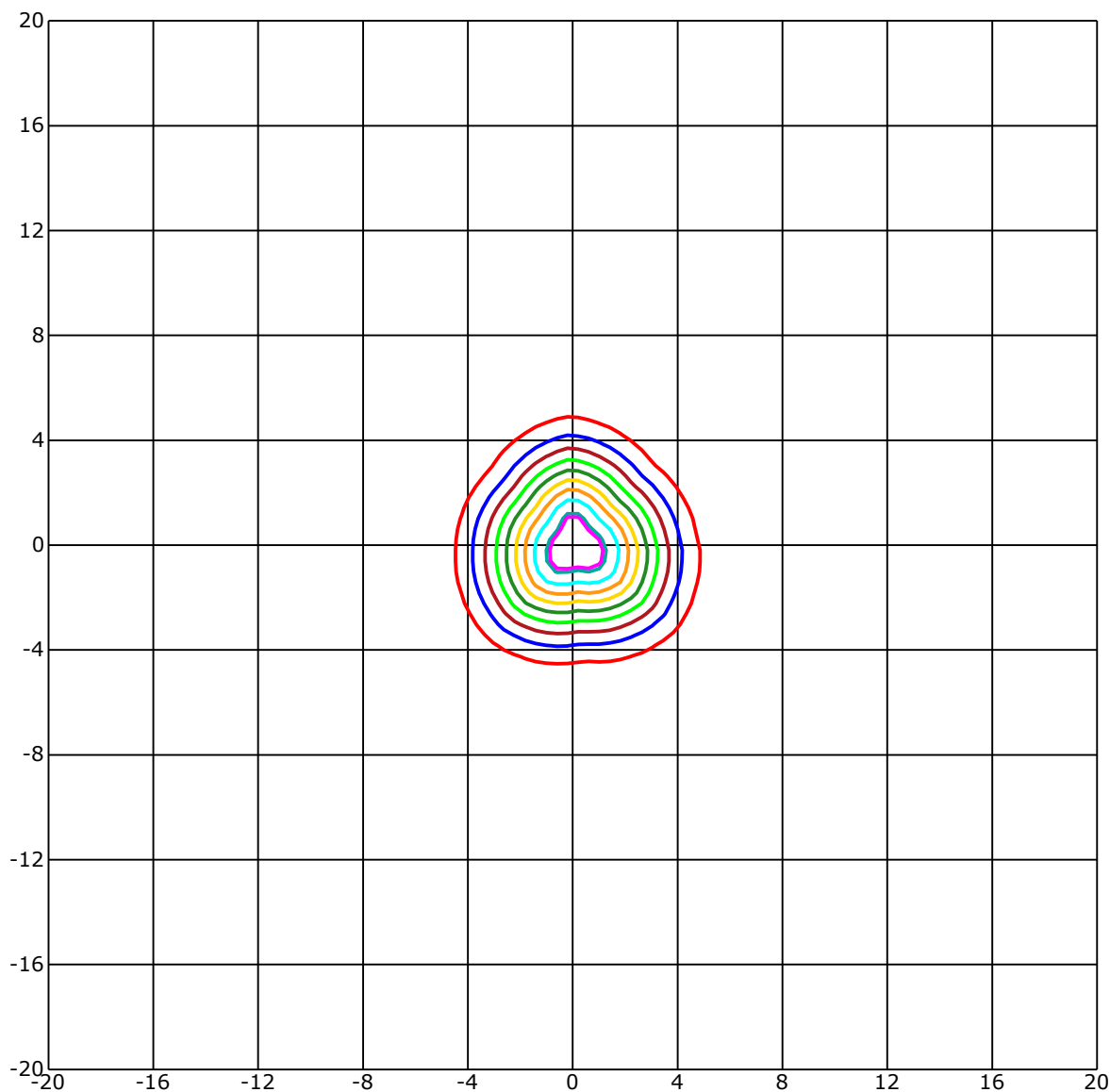
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/1/7 17:35:57

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



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

27.809(92%Emax)	15.114(50%Emax)
27.205(90%Emax)	12.091(40%Emax)
24.182(80%Emax)	9.068(30%Emax)
21.159(70%Emax)	6.045(20%Emax)
18.136(60%Emax)	3.023(10%Emax)

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/1/7 17:35:57

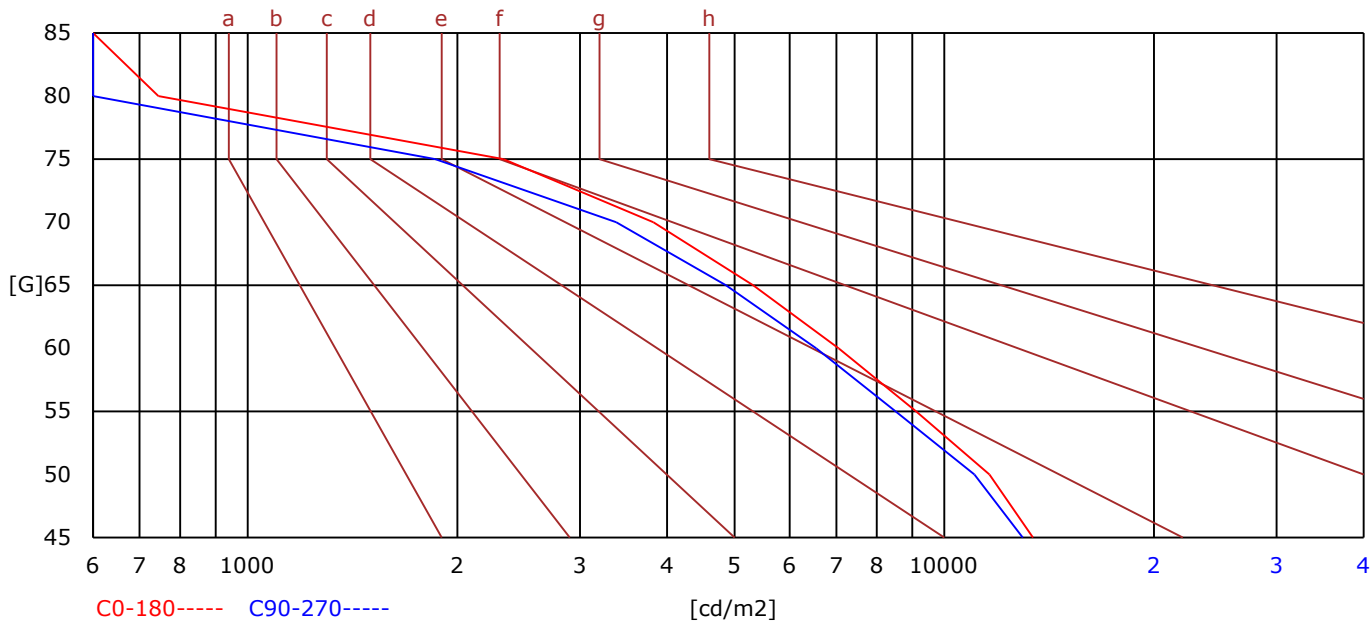
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 m
Remarks:

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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	13408	11610	9116	7053	5320	3822	2331	745	0
C90	12961	11051	8515	6550	4861	3381	1859	165	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



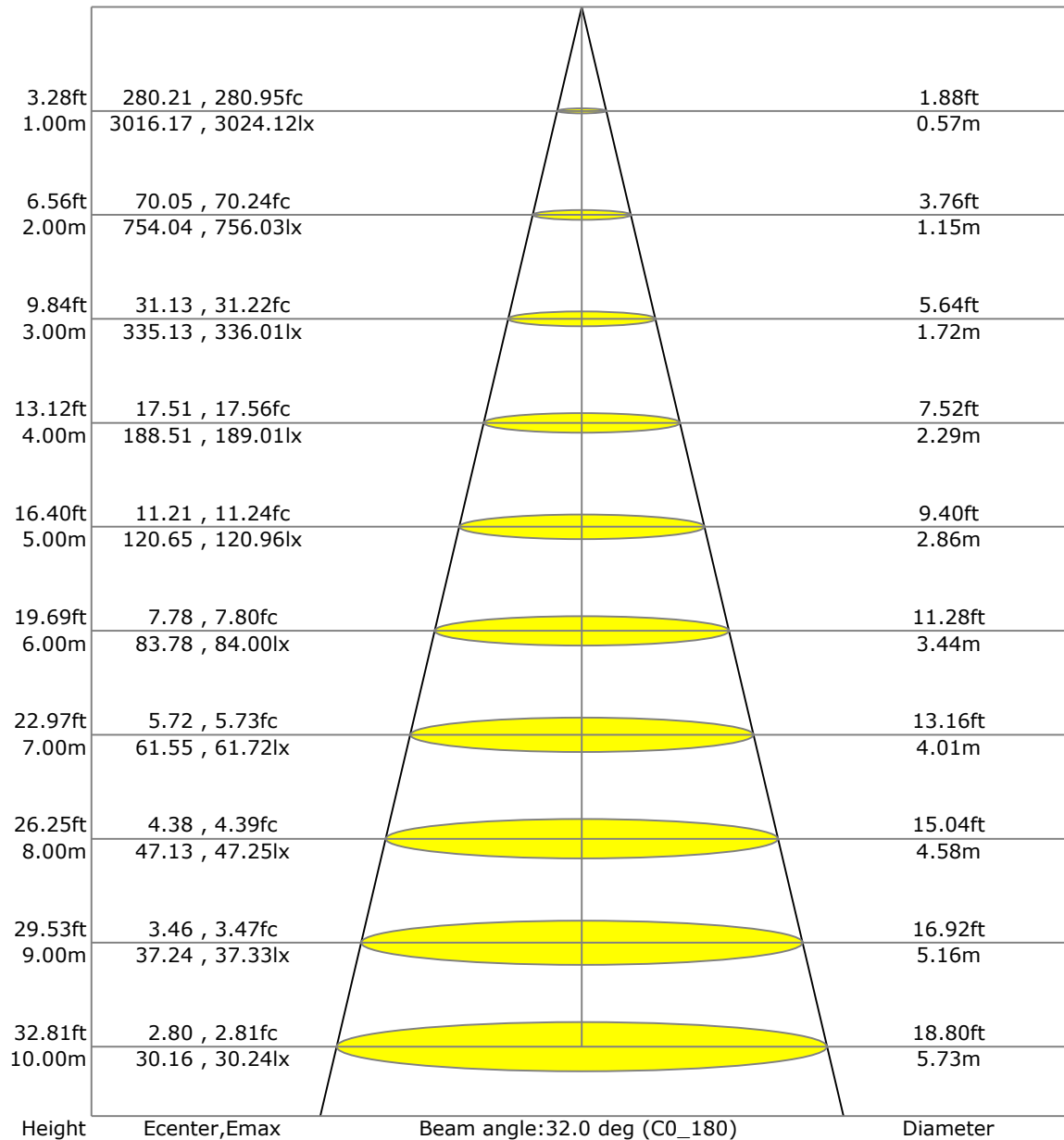
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/1/7 17:35:57

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

Report No.:

Test Time: 2025/1/7 17:35:57

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 17:35:57

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

Report No.:

Test Time: 2025/1/7 17:35:57

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	10.92	10.98	11.12	11.17	11.41	11.19	11.24	11.39	11.43	11.67
3H	10.97	11.03	11.18	11.22	11.47	11.22	11.27	11.42	11.46	11.71
4H	10.97	11.02	11.18	11.22	11.47	11.21	11.26	11.42	11.46	11.71
6H	10.95	11.01	11.17	11.21	11.46	11.19	11.25	11.41	11.45	11.70
8H	10.94	11.00	11.16	11.20	11.46	11.18	11.24	11.40	11.44	11.70
12H	10.93	10.99	11.16	11.20	11.45	11.17	11.23	11.39	11.44	11.69
4H 2H	11.69	11.75	11.90	11.94	12.19	12.21	12.27	12.42	12.46	12.71
3H	11.76	11.82	11.98	12.03	12.28	12.27	12.32	12.49	12.53	12.78
4H	11.76	11.82	11.99	12.03	12.29	12.26	12.31	12.49	12.53	12.79
6H	11.75	11.80	11.98	12.02	12.29	12.24	12.29	12.47	12.51	12.78
8H	11.73	11.79	11.98	12.02	12.28	12.22	12.28	12.47	12.51	12.77
12H	11.72	11.78	11.97	12.01	12.28	12.21	12.26	12.46	12.50	12.77
8H 4H	11.72	11.78	11.94	11.98	12.23	12.38	12.44	12.60	12.64	12.90
6H	11.77	11.82	12.03	12.06	12.34	12.44	12.49	12.69	12.73	13.00
8H	11.76	11.81	12.02	12.05	12.33	12.42	12.47	12.68	12.72	12.99
12H	11.74	11.79	12.01	12.05	12.33	12.40	12.45	12.67	12.71	12.99
12H 4H	11.78	11.83	12.03	12.06	12.33	12.51	12.57	12.76	12.80	13.07
6H	11.75	11.81	12.02	12.05	12.33	12.49	12.55	12.76	12.79	13.07

C Range: 0 - 360 Deg
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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: 6.78 m
Remarks:

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ZONAL LUMINOUS FLUX TABLE

[illegible]

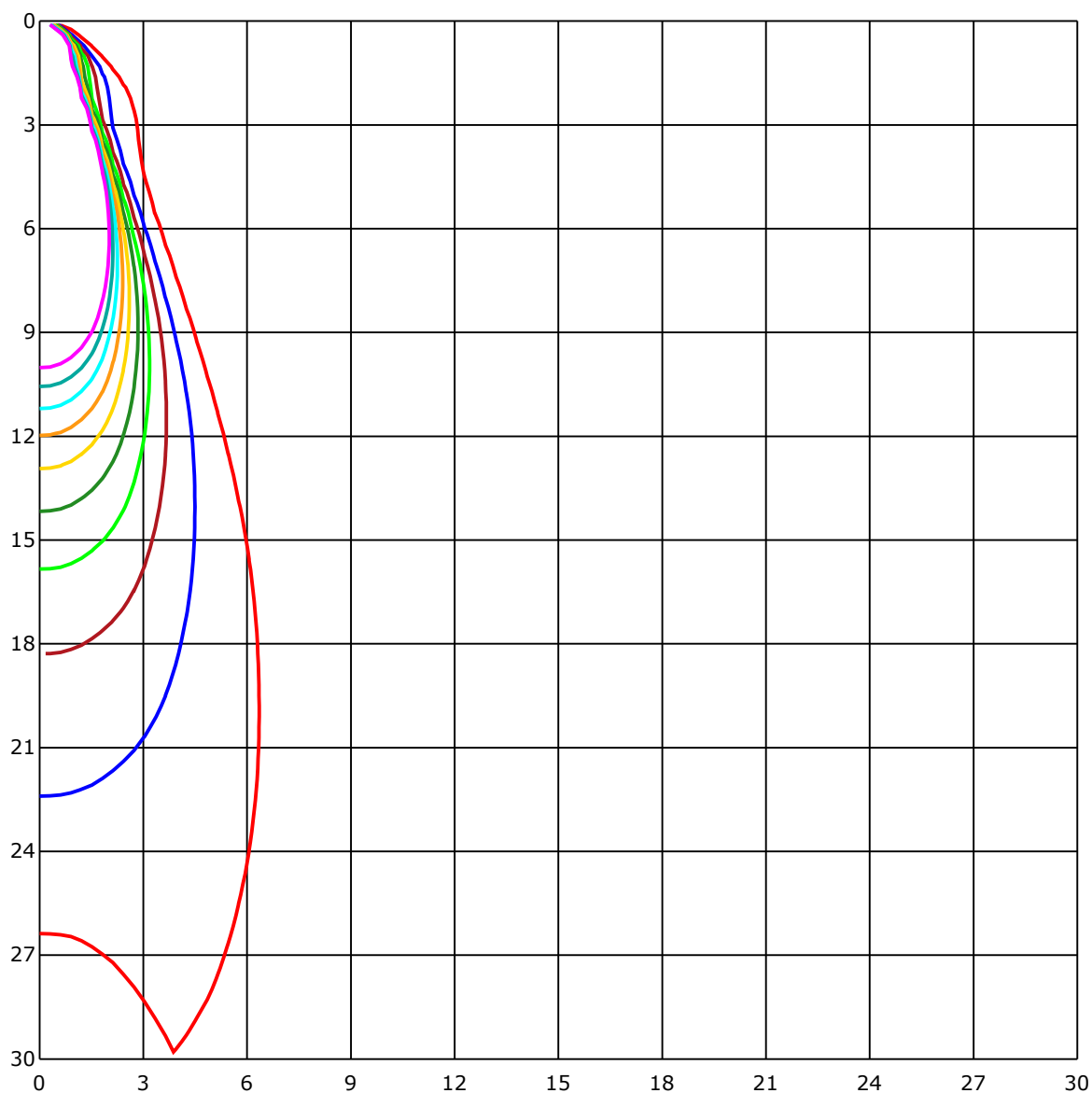
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/1/7 17:35:57

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Humidity: 60
Test Distance: 6.78 m
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SPACE ISOLX DIAGRAM



Unit of illumination:lx

30.065	15.032
27.058	12.026
24.052	9.019
21.045	6.013
18.039	3.006

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/1/7 17:35:57

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

Report No.:

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	3016.17	2999.94	3003.76	2988.87	3016.17	2999.94	3003.76	2988.87	3016.17	
G1	3014.47	2983.86	3024.12	2954.39	2996.18	3012.13	2988.41	3015.07	3014.47	
G2	3008.26	2943.91	3024.03	2904.79	2966.76	3007.53	2943.63	3019.53	3008.26	
G3	2982.34	2901.48	3008.4	2848.75	2919.22	2986.75	2897.71	3006.7	2982.34	
G4	2949.1	2838.09	2982.15	2780.26	2872.2	2958.99	2838.41	2993.97	2949.1	
G5	2897.94	2773.18	2940.19	2697.84	2797.59	2916.14	2768.82	2956.23	2897.94	
G6	2838.5	2689.34	2887.09	2606.04	2717.74	2864.38	2686.95	2922.76	2838.5	
G7	2769.78	2590.73	2825.26	2497.65	2617.63	2796.63	2596.99	2861.44	2769.78	
G8	2689.2	2482.52	2751.72	2378.45	2507.3	2717.84	2487.86	2801.13	2689.2	
G9	2586.09	2351.7	2653.85	2242.66	2386.5	2621.99	2365.63	2716.73	2586.09	
G10	2483.49	2208.46	2540.17	2108.43	2255.53	2508.04	2233.51	2627.46	2483.49	
G11	2349.17	2062.92	2424.6	1958.07	2109.63	2388.15	2093.63	2521.74	2349.17	
G12	2212.97	1906.63	2288.12	1810.65	1965.06	2254.61	1946.72	2402.31	2212.97	
G13	2066.14	1755.86	2146.04	1661.62	1818.05	2115.1	1799.2	2272.45	2066.14	
G14	1924.51	1605.95	1999.9	1520.91	1674.68	1966.94	1650.77	2139.97	1924.51	
G15	1772.08	1463.45	1855.15	1378.04	1533.41	1824.44	1506.89	1997.37	1772.08	
G16	1627.65	1325.22	1706.12	1241.56	1394.59	1679.87	1366.46	1858.73	1627.65	
G17	1476.78	1189.89	1560.26	1097.86	1259.86	1544.22	1226.81	1714.39	1476.78	
G18	1332.53	1054.65	1417.85	963.59	1126.27	1403.88	1085.04	1575.98	1332.53	
G19	1194.4	923.96	1277.37	830.74	992.41	1265.05	950.63	1427.83	1194.4	
G20	1063.25	793.18	1137.53	704.88	854.78	1124.89	819.8	1287.44	1063.25	
G21	934.4	666.4	1003.44	588.72	723.5	985.84	695.64	1146.64	934.4	
G22	804.54	547.3	865.72	484.83	602.55	847.38	576.35	1011.72	804.54	
G23	676.01	441.85	737.15	395.6	490.21	714.26	471.73	875.47	676.01	
G24	558.84	351.01	617.36	320.4	397.63	588.4	381.58	744.87	558.84	
G25	452.7	281.42	509.24	261.19	321.37	475.27	308.08	622.32	452.7	
G26	365.17	228.51	415.6	216.28	263.31	382.37	249.84	515.58	365.17	
G27	295.26	189.76	339.57	182.4	217.75	307.44	206.4	424.01	295.26	
G28	242.16	160.15	279.9	156.38	184.98	250.53	173.85	348.53	242.16	
G29	200.28	139.05	233.47	136.25	161.17	208.47	149.72	288.64	200.28	
G30	169.26	123.38	197.76	121.68	143.74	176.61	130.69	241.1	169.26	
G31	145.81	111.8	171.14	110.83	130.37	154.41	117.5	204.15	145.81	
G32	128.94	102.79	150.55	102.37	119.98	138.18	107.11	176.43	128.94	
G33	116.35	95.89	135.51	95.29	112.07	125.86	99.43	155.42	116.35	
G34	106.19	90.24	123.52	90.05	106.0	116.44	93.22	139.42	106.19	
G35	98.23	85.73	114.14	85.41	100.26	109.45	88.44	126.51	98.23	
G36	92.3	82.24	106.42	81.78	95.98	103.7	84.35	116.76	92.3	

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: 6.78 m

Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	86.88	79.25	100.58	78.38	92.35	98.92	81.0	108.49	86.88	
G38	83.06	76.72	95.71	75.8	89.32	94.74	78.24	102.1	83.06	
G39	79.62	74.33	91.71	73.09	86.1	91.75	76.03	96.72	79.62	
G40	77.04	71.8	88.31	70.56	83.48	88.58	73.37	92.58	77.04	
G41	74.51	69.69	85.5	68.17	80.81	85.87	71.3	88.95	74.51	
G42	72.22	67.25	82.24	65.83	77.87	83.34	68.95	86.1	72.22	
G43	69.83	65.28	79.48	63.44	75.43	80.49	66.98	82.97	69.83	
G44	67.62	62.79	76.81	61.14	72.63	77.96	64.63	80.26	67.62	
G45	65.32	60.68	74.1	58.66	70.1	75.39	62.56	77.55	65.32	
G46	63.21	58.38	71.48	56.4	67.71	72.95	60.36	75.16	63.21	
G47	60.95	56.08	68.91	54.06	65.09	70.65	58.1	72.77	60.95	
G48	58.66	53.46	66.42	51.76	62.61	68.17	56.04	70.1	58.66	
G49	56.31	50.98	63.76	48.96	59.99	65.64	53.51	67.53	56.31	
G50	54.24	47.76	60.95	45.46	57.09	63.25	51.02	65.18	54.24	
G51	51.76	44.77	58.47	42.38	53.83	60.72	47.62	62.65	51.76	
G52	49.09	41.69	55.07	39.35	50.7	57.87	44.73	60.17	49.09	
G53	45.51	38.8	51.76	36.5	47.12	54.79	41.79	57.14	45.51	
G54	42.61	35.95	48.54	33.88	44.41	51.35	38.75	54.06	42.61	
G55	39.49	33.47	45.28	31.26	41.23	47.9	35.99	50.57	39.49	
G56	36.87	30.89	42.29	28.96	38.52	44.82	33.37	47.12	36.87	
G57	34.11	28.64	39.49	26.71	35.86	42.02	30.98	44.08	34.11	
G58	31.63	26.48	36.82	24.78	33.56	39.3	28.55	41.28	31.63	
G59	29.14	24.55	34.61	22.8	31.21	36.64	26.52	38.71	29.14	
G60	27.08	22.57	32.09	20.96	29.05	34.15	24.36	36.36	27.08	
G61	25.01	20.69	29.93	19.31	27.03	31.95	22.52	33.74	25.01	
G62	23.03	18.98	27.81	17.61	25.14	29.65	20.69	31.76	23.03	
G63	21.1	17.33	26.02	15.95	23.35	27.63	18.94	29.33	21.1	
G64	19.44	15.77	24.18	14.53	21.65	25.7	17.28	27.4	19.44	
G65	17.79	14.39	22.43	13.15	20.13	23.86	15.81	25.56	17.79	
G66	16.27	13.01	20.69	11.86	18.66	22.02	14.25	23.72	16.27	
G67	14.76	11.77	19.17	10.53	17.05	20.36	13.01	21.88	14.76	
G68	13.42	10.39	17.7	9.42	15.58	18.71	11.63	20.32	13.42	
G69	12.09	9.29	16.18	8.32	14.34	17.51	10.39	18.76	12.09	
G70	10.85	8.37	14.94	7.4	13.1	15.91	9.19	17.38	10.85	
G71	9.7	7.31	13.79	6.39	11.95	14.66	8.23	15.81	9.7	
G72	8.69	6.3	12.5	5.42	10.99	13.42	7.22	14.66	8.69	
G73	7.72	5.42	11.54	4.5	10.02	12.27	6.25	13.28	7.72	

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/1/7 17:35:57

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

[illegible]

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