

Report No.:

Test Time: 2025/1/7 15:17:11

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP110CT075H139-45°-25W
Lamp Type:
Luminous Width: 80 mm
Luminous Length: 80 mm
Luminous Height: 91 mm

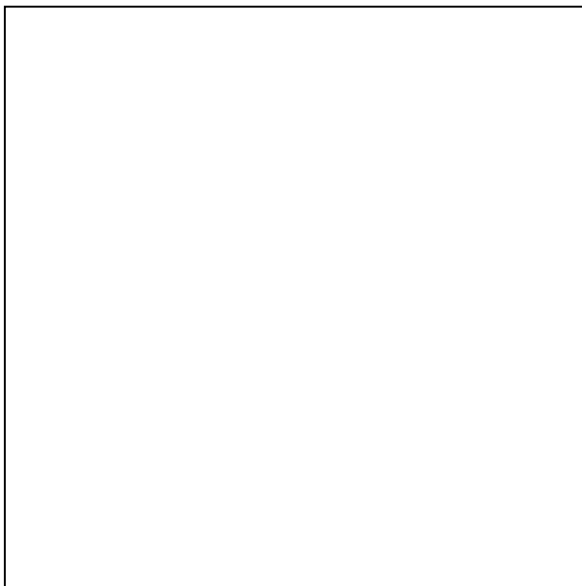
Voltage(V): 227.90 V
Current(A): 0.1130 A
Power(W): 24.83 W
Power Factor: 0.9550
Lamp Luminous Flux: 1656.69

Photometric Results

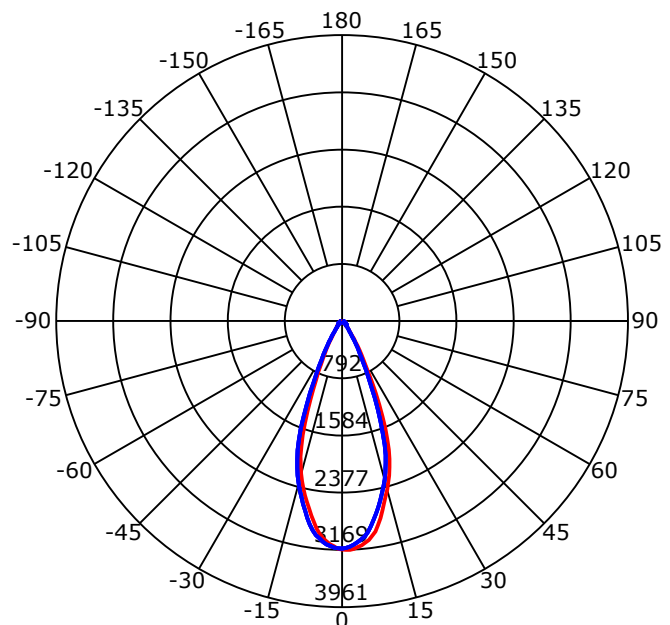
CIE Class: Direct
Luminaire Luminous Flux: 1656.69 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 66.72 lm/W
Beam Angle(50%) C0-180,C90-270: 41.6,41.6
Field Angle(10%) C0-180,C90-270: 64.9,64.6
S/MH C0-180,C90-270: 0.689,0.689

Max. Intensity: 3168.74 cd
Max.Intensity Angle: C=0 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 3162.67 cd
Effective Luminous Flux: 1405.09 lm
ERP(ϕ use)(120deg): 1615.81 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 41.6 deg,41.6 deg

C0-180 — C90-270 —

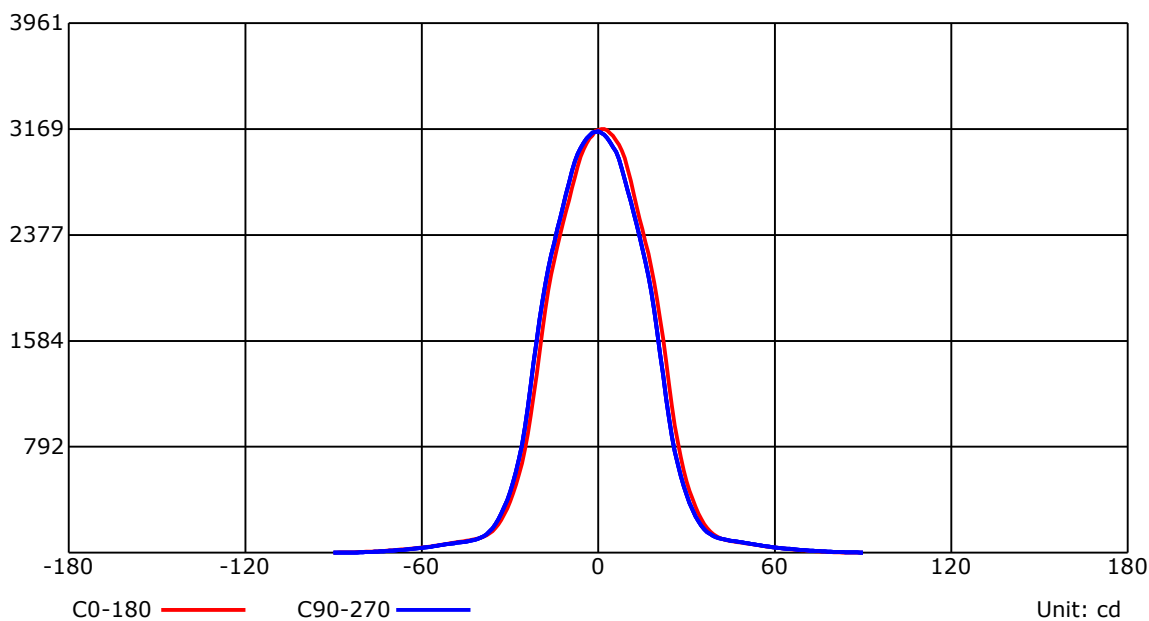
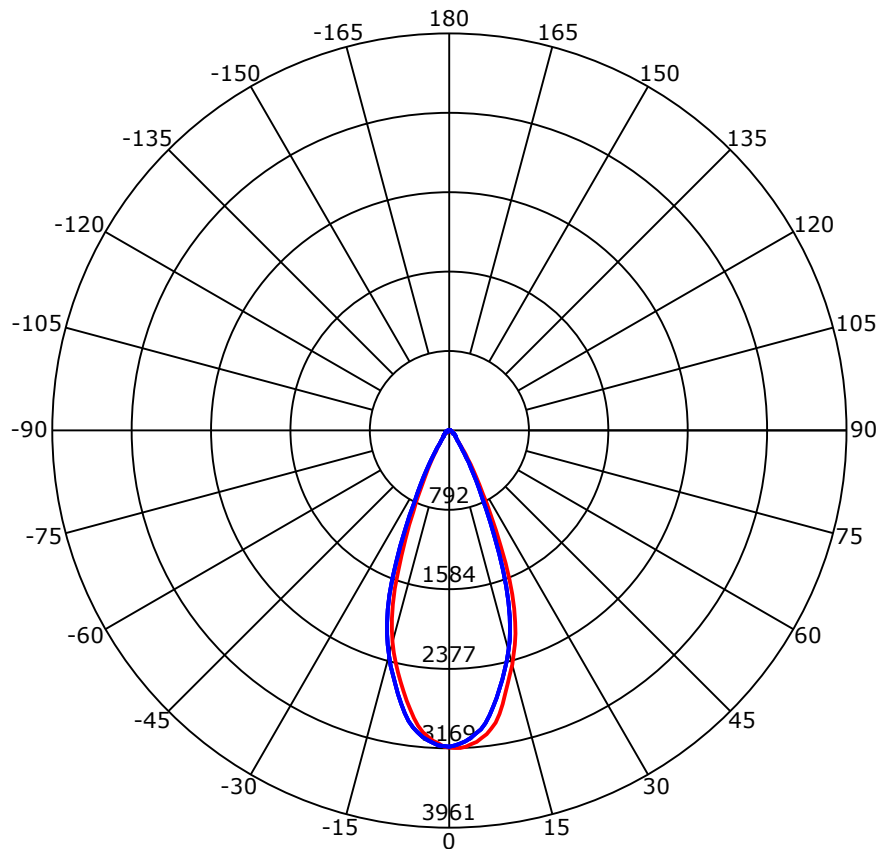
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/1/7 15:17:11

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 Intensity Distribution Curve



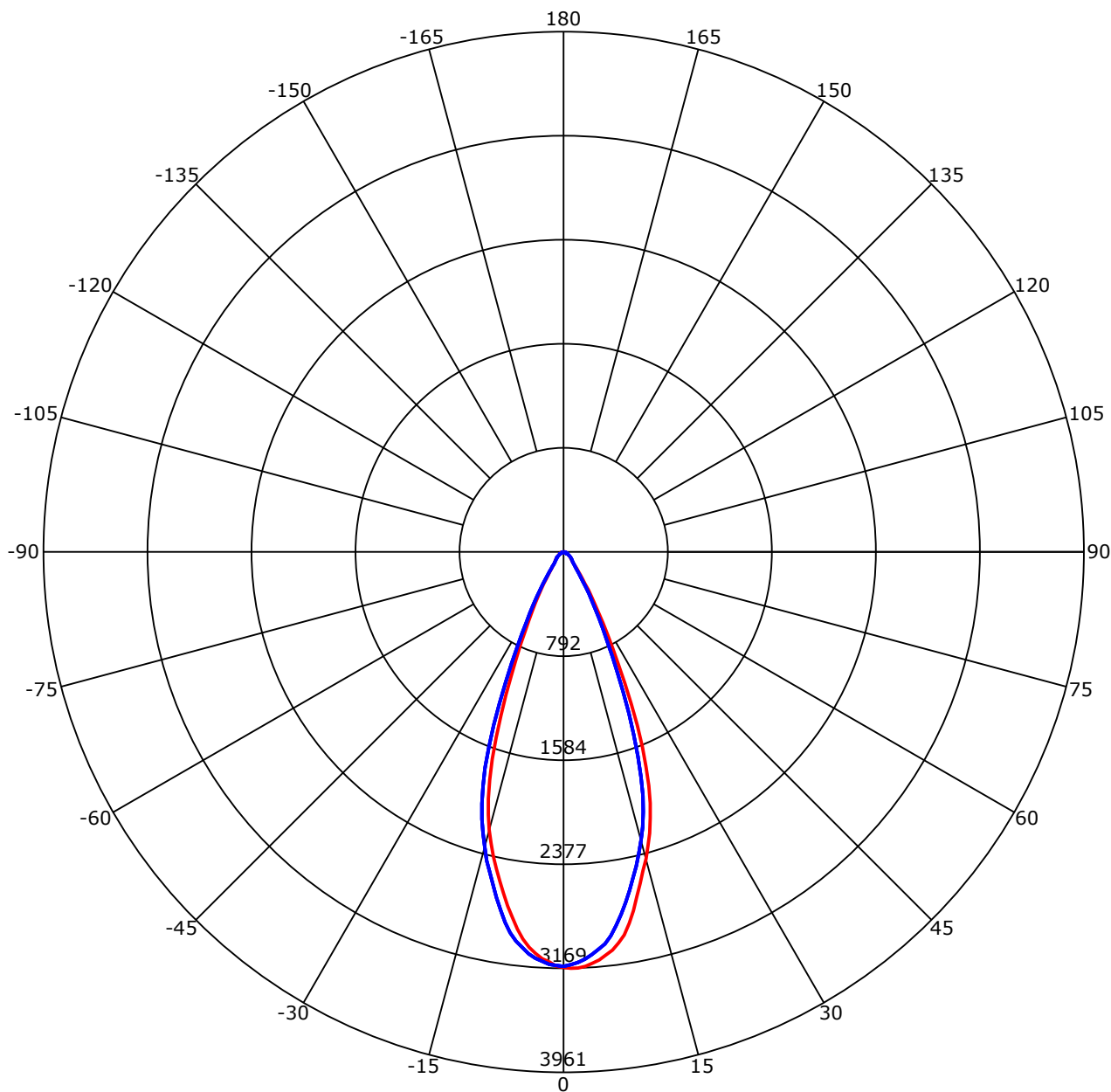
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C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/1/7 15:17:11

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 15:17:11

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

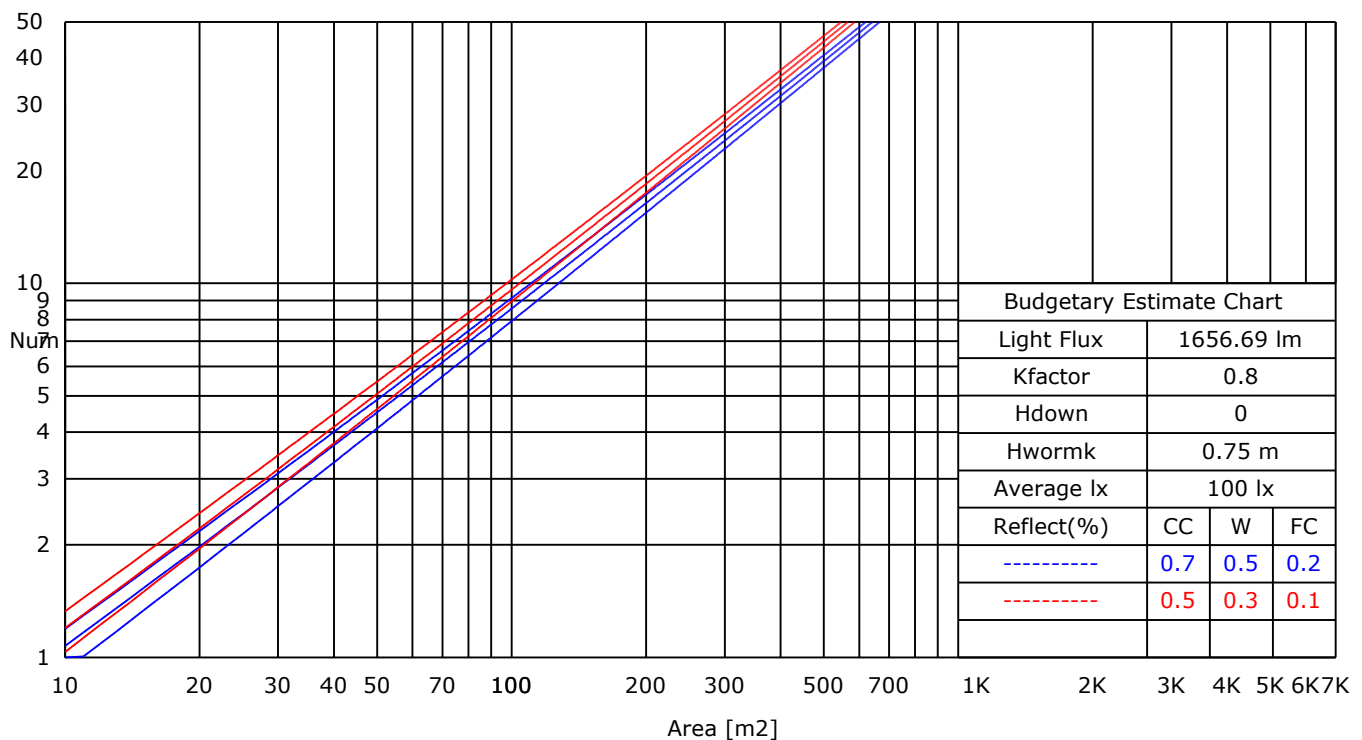
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UTILIZATION FACTORS TABLE

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	1.01	0.99	0.97	1.00	0.97	0.95	0.96	0.94	0.91	0.92	0.89	0.86	0.86	0.83	0.80	0.75
2	0.96	0.94	0.93	0.95	0.93	0.91	0.92	0.89	0.87	0.88	0.85	0.83	0.83	0.80	0.77	0.72
3	0.92	0.90	0.89	0.91	0.89	0.87	0.89	0.86	0.83	0.85	0.82	0.79	0.81	0.77	0.74	0.70
4	0.89	0.87	0.86	0.88	0.86	0.84	0.86	0.83	0.80	0.83	0.79	0.76	0.79	0.75	0.72	0.67
5	0.86	0.84	0.83	0.85	0.83	0.82	0.83	0.80	0.78	0.80	0.77	0.74	0.77	0.73	0.69	0.65
6	0.83	0.82	0.81	0.83	0.80	0.79	0.80	0.77	0.75	0.78	0.74	0.71	0.75	0.71	0.67	0.64
7	0.81	0.80	0.79	0.80	0.78	0.77	0.78	0.75	0.73	0.76	0.72	0.69	0.73	0.69	0.65	0.62
8	0.79	0.78	0.77	0.78	0.76	0.75	0.76	0.73	0.71	0.74	0.70	0.68	0.71	0.67	0.64	0.60
9	0.77	0.76	0.75	0.76	0.74	0.73	0.74	0.71	0.70	0.72	0.68	0.66	0.70	0.65	0.62	0.59
10	0.75	0.74	0.73	0.74	0.73	0.72	0.73	0.70	0.68	0.70	0.67	0.64	0.68	0.64	0.61	0.58

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



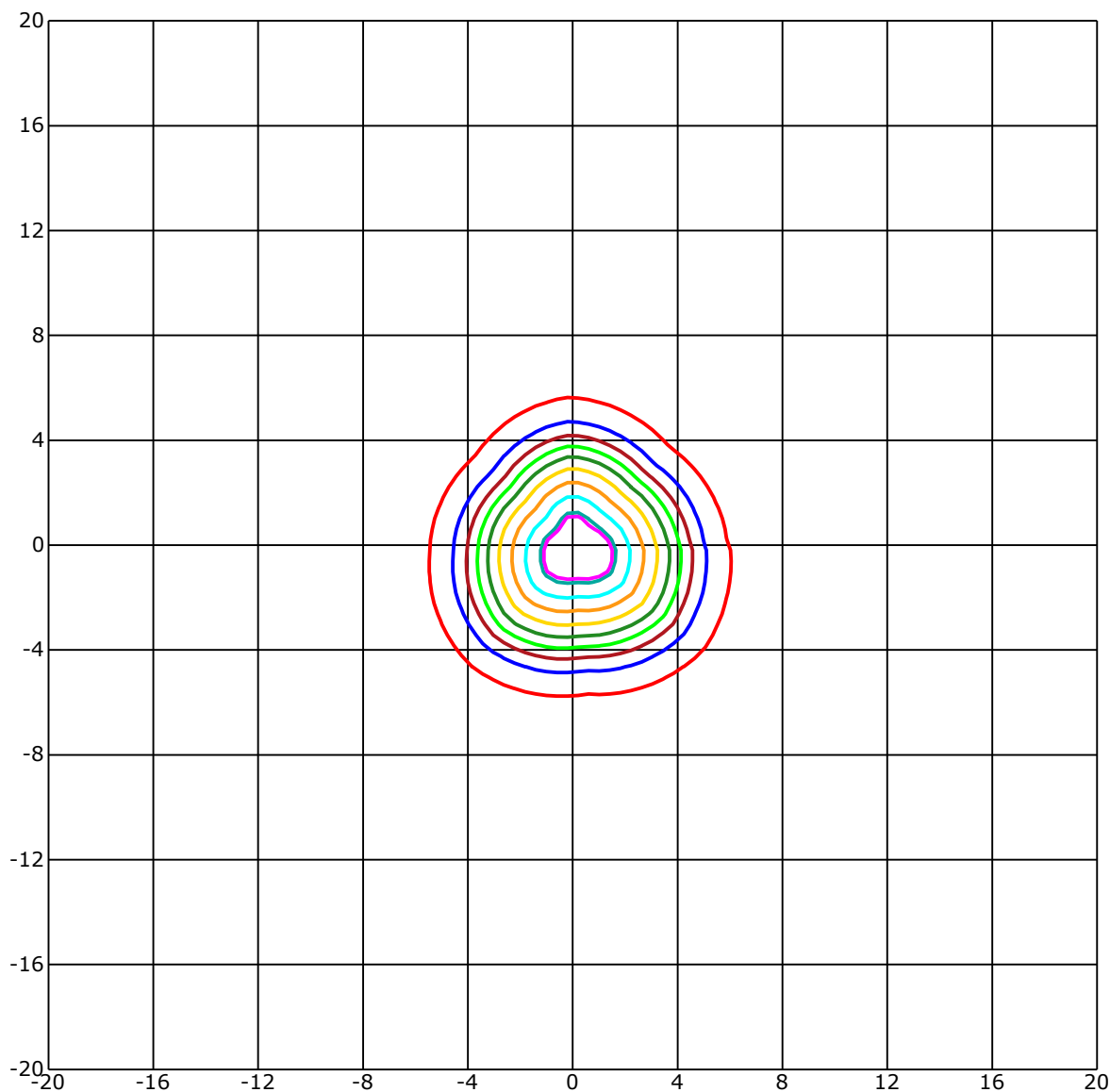
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Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/1/7 15:17:11

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 15:17:11

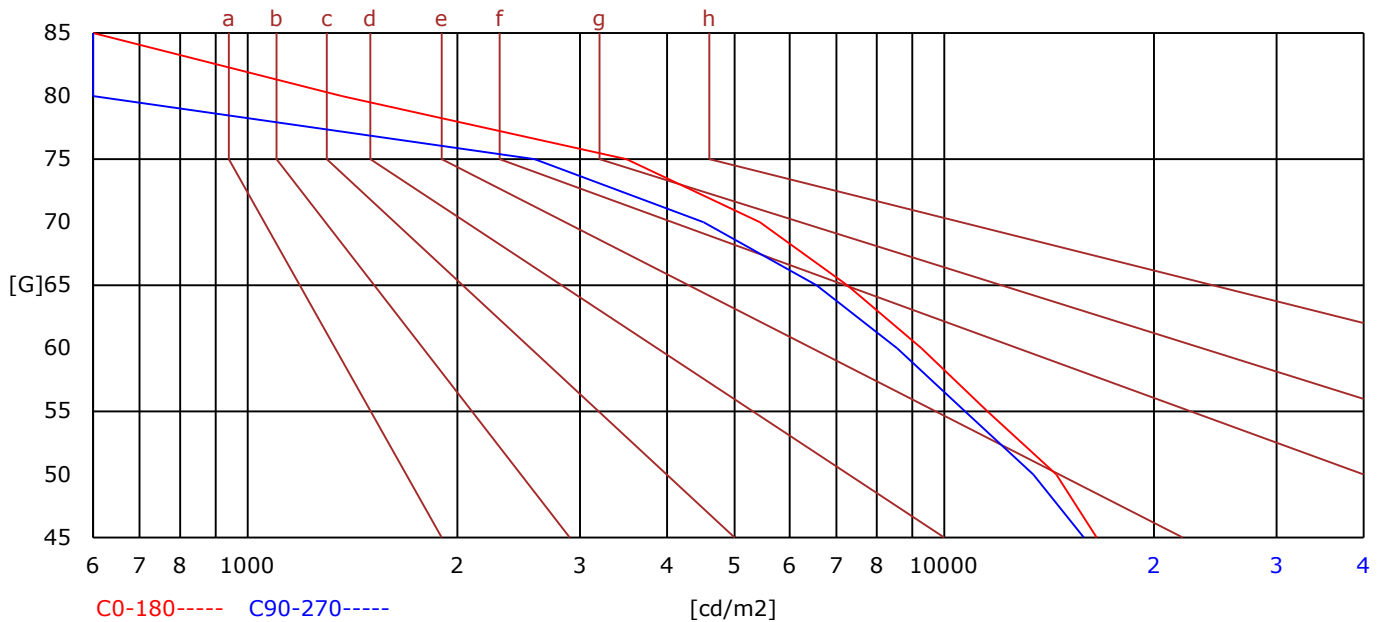
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Humidity: 60
Test Distance: 6.78 m
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	16547	14482	11533	9280	7257	5439	3497	1365	0
C90	15856	13420	10707	8562	6560	4515	2581	496	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



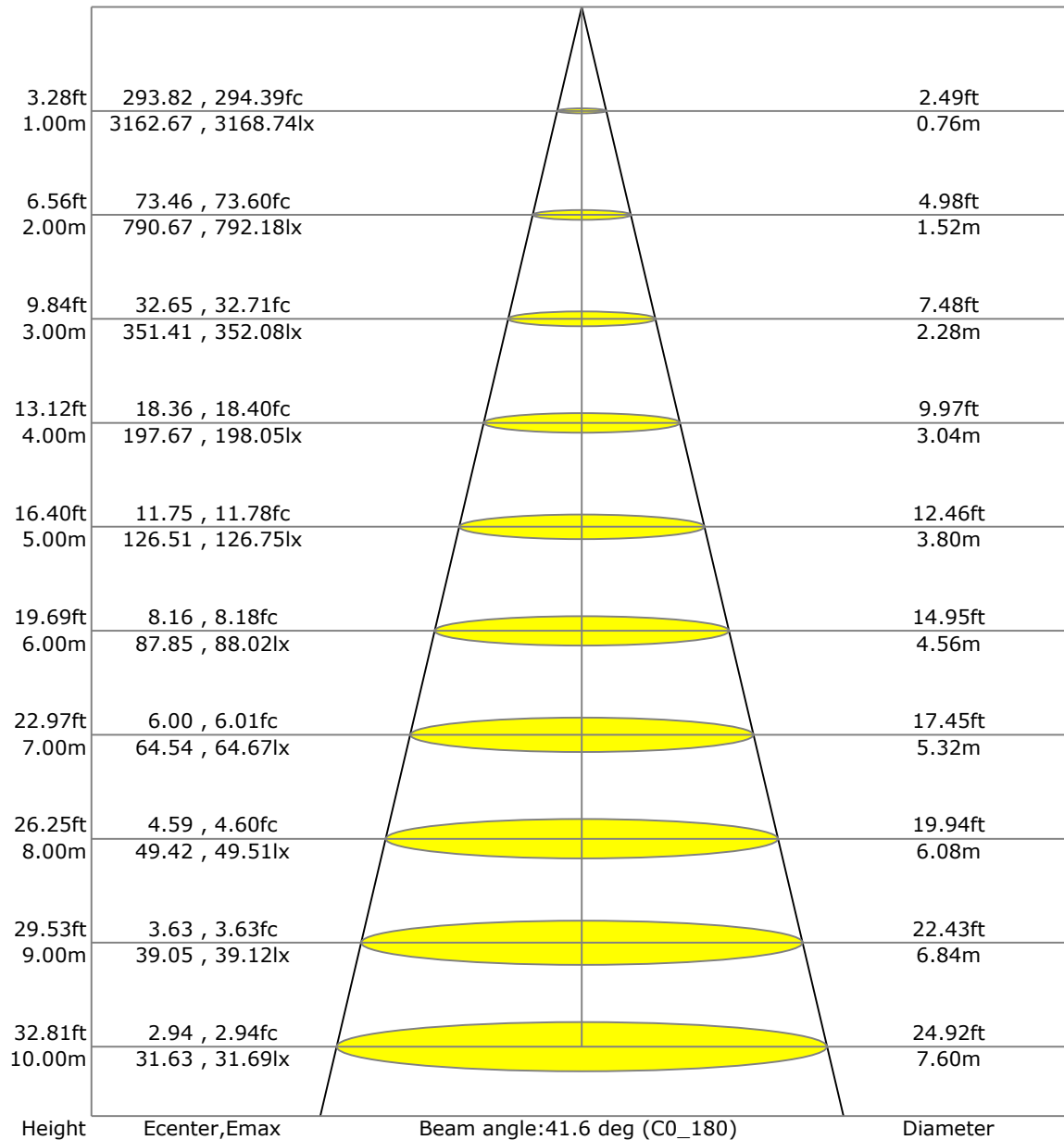
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Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/1/7 15:17:11

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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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 15:17:11

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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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	10.35	10.40	10.55	10.59	10.83	10.42	10.47	10.62	10.66	10.90
3H	10.39	10.45	10.60	10.64	10.88	10.45	10.51	10.66	10.70	10.95
4H	10.39	10.44	10.60	10.64	10.89	10.45	10.50	10.66	10.70	10.94
6H	10.37	10.43	10.59	10.63	10.88	10.43	10.49	10.65	10.69	10.94
8H	10.36	10.42	10.58	10.62	10.87	10.42	10.48	10.64	10.68	10.93
12H	10.36	10.41	10.58	10.61	10.87	10.41	10.47	10.64	10.67	10.93
4H 2H	11.24	11.29	11.45	11.49	11.74	11.42	11.47	11.63	11.67	11.92
3H	11.32	11.37	11.54	11.58	11.83	11.49	11.54	11.71	11.75	12.00
4H	11.32	11.37	11.55	11.58	11.84	11.49	11.54	11.71	11.75	12.01
6H	11.30	11.35	11.54	11.57	11.84	11.47	11.52	11.70	11.74	12.00
8H	11.29	11.34	11.53	11.57	11.83	11.45	11.51	11.70	11.73	12.00
12H	11.28	11.33	11.52	11.56	11.83	11.44	11.49	11.69	11.72	11.99
8H 4H	11.31	11.37	11.53	11.57	11.82	11.57	11.63	11.79	11.83	12.08
6H	11.38	11.43	11.63	11.67	11.94	11.65	11.70	11.90	11.93	12.21
8H	11.37	11.41	11.63	11.66	11.93	11.63	11.68	11.90	11.93	12.20
12H	11.35	11.39	11.62	11.65	11.93	11.62	11.66	11.89	11.91	12.20
12H 4H	11.39	11.44	11.64	11.67	11.94	11.71	11.76	11.96	12.00	12.27
6H	11.37	11.41	11.63	11.66	11.94	11.70	11.74	11.96	11.99	12.26

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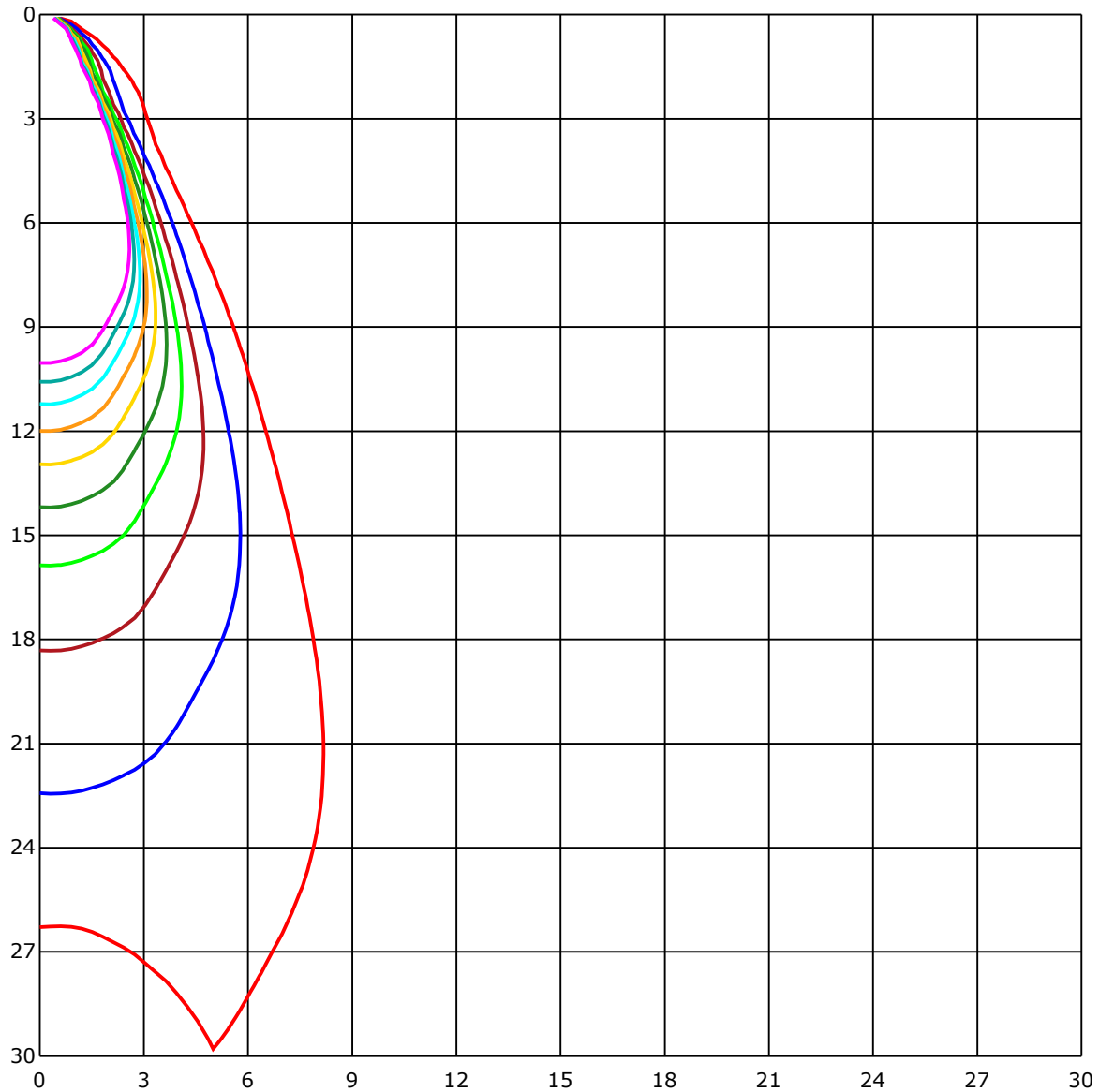
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 m
Remarks:

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

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SPACE ISOLX DIAGRAM



Unit of illumination:lx

31.431	15.715
28.288	12.572
25.145	9.429
22.002	6.286
18.859	3.143

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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

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	3162.67	3124.52	3152.97	3105.81	3162.67	3124.52	3152.97	3105.81	3162.67	
G1	3168.23	3102.82	3140.93	3073.36	3153.85	3130.26	3146.95	3140.29	3168.23	
G2	3168.74	3077.45	3125.3	3031.89	3121.76	3140.93	3141.76	3151.55	3168.74	
G3	3158.17	3048.4	3102.5	2995.3	3099.42	3131.05	3120.47	3163.59	3158.17	
G4	3136.98	3005.92	3070.97	2940.78	3062.83	3120.75	3099.01	3162.67	3136.98	
G5	3117.53	2959.58	3035.39	2876.47	3020.68	3098.22	3068.58	3153.34	3117.53	
G6	3083.52	2903.87	2999.16	2792.35	2963.58	3074.6	3026.42	3136.61	3083.52	
G7	3052.44	2831.93	2943.68	2707.03	2891.78	3037.59	2985.19	3121.07	3052.44	
G8	3004.96	2742.06	2869.95	2612.61	2808.16	2993.78	2927.36	3087.93	3004.96	
G9	2951.03	2651.73	2791.71	2526.98	2728.09	2942.76	2854.5	3056.44	2951.03	
G10	2870.18	2562.55	2710.25	2432.46	2636.84	2879.97	2768.72	2998.75	2870.18	
G11	2781.78	2475.67	2625.07	2344.44	2551.38	2808.44	2679.59	2937.75	2781.78	
G12	2682.16	2388.38	2539.16	2244.55	2466.99	2726.85	2589.86	2861.81	2682.16	
G13	2589.35	2301.41	2454.21	2144.98	2378.68	2638.49	2500.82	2780.95	2589.35	
G14	2498.93	2212.0	2365.81	2032.72	2286.51	2556.3	2420.47	2690.72	2498.93	
G15	2418.63	2111.47	2273.87	1911.46	2188.42	2470.71	2321.4	2607.7	2418.63	
G16	2326.28	2001.88	2178.99	1768.45	2080.9	2380.93	2227.72	2517.05	2326.28	
G17	2237.7	1868.66	2068.35	1619.56	1963.49	2292.67	2127.05	2436.33	2237.7	
G18	2130.54	1725.79	1950.12	1459.82	1822.42	2199.63	2012.59	2345.86	2130.54	
G19	2020.59	1557.32	1810.6	1299.34	1668.15	2100.39	1885.76	2253.28	2020.59	
G20	1892.93	1387.83	1654.31	1140.34	1502.75	1985.97	1749.05	2148.56	1892.93	
G21	1751.72	1216.83	1490.71	994.16	1335.29	1850.83	1589.96	2035.67	1751.72	
G22	1599.52	1053.6	1326.14	862.46	1172.29	1705.52	1422.45	1906.86	1599.52	
G23	1434.77	902.68	1155.92	747.86	1023.67	1540.82	1250.57	1766.29	1434.77	
G24	1263.63	775.26	1008.36	648.43	886.78	1366.18	1085.54	1611.42	1263.63	
G25	1099.52	669.21	872.34	563.2	771.12	1189.25	937.07	1453.38	1099.52	
G26	951.13	578.56	757.61	489.61	668.43	1030.11	807.66	1287.21	951.13	
G27	824.08	501.84	658.18	426.45	583.39	887.37	698.58	1132.06	824.08	
G28	713.84	432.75	572.72	369.03	509.1	767.67	606.83	987.13	713.84	
G29	616.02	371.33	499.4	319.2	444.24	666.82	527.35	861.95	616.02	
G30	532.27	316.77	433.62	273.97	384.85	580.95	456.37	750.02	532.27	
G31	462.3	267.54	372.39	235.17	331.66	503.91	393.81	653.35	462.3	
G32	399.51	226.07	318.61	201.66	285.37	436.7	339.89	567.94	399.51	
G33	344.07	192.7	272.36	174.45	246.02	376.67	291.67	494.3	344.07	
G34	293.09	165.35	234.26	151.19	212.51	322.93	250.25	427.92	293.09	
G35	250.99	143.65	201.71	133.54	184.1	276.5	213.2	371.56	250.99	
G36	214.3	126.87	176.06	119.43	161.26	236.37	183.28	320.86	214.3	

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	184.06	114.51	154.55	108.58	143.56	203.23	157.67	276.78	184.06	
G38	159.28	105.08	138.46	100.3	130.0	175.97	138.32	238.12	159.28	
G39	139.74	98.33	126.0	94.1	119.93	155.05	123.38	206.31	139.74	
G40	124.53	92.63	116.76	88.72	111.61	138.82	112.16	179.74	124.53	
G41	112.81	88.17	109.18	84.44	105.54	126.09	103.25	158.36	112.81	
G42	103.61	84.26	103.15	80.54	100.26	116.76	96.4	141.44	103.61	
G43	96.81	81.04	98.28	77.5	95.75	109.4	90.93	128.53	96.81	
G44	91.39	77.87	94.14	74.65	91.71	103.89	86.6	118.74	91.39	
G45	86.97	74.88	90.42	71.76	88.31	99.02	83.16	110.88	86.97	
G46	83.39	72.08	87.11	68.86	85.0	94.83	79.71	104.26	83.39	
G47	79.94	69.41	83.48	66.06	81.69	91.34	76.77	99.52	79.94	
G48	76.81	66.47	80.44	62.56	78.7	88.03	73.92	95.02	76.81	
G49	74.01	63.16	77.09	58.84	75.53	84.81	71.07	90.97	74.01	
G50	71.11	59.58	73.6	55.21	71.39	81.69	68.45	87.29	71.11	
G51	68.31	55.85	69.55	51.81	67.67	78.51	65.41	84.12	68.31	
G52	65.14	52.4	65.64	48.5	63.71	75.62	62.1	80.72	65.14	
G53	61.46	48.91	61.87	45.14	60.03	71.66	58.1	77.59	61.46	
G54	57.55	45.42	58.33	41.97	56.5	67.8	54.7	73.69	57.55	
G55	54.06	42.34	54.89	39.3	53.23	63.8	51.25	69.78	54.06	
G56	50.52	39.72	51.67	36.54	50.06	60.08	47.81	65.6	50.52	
G57	47.03	36.82	48.54	34.2	46.66	56.5	44.5	61.74	47.03	
G58	43.95	34.38	45.42	31.86	43.81	53.51	41.51	58.29	43.95	
G59	41.05	31.99	42.43	29.56	41.1	50.11	38.75	54.84	41.05	
G60	38.2	29.7	39.72	27.4	38.57	46.93	36.18	51.48	38.2	
G61	35.67	27.49	37.33	25.24	36.13	43.81	33.6	47.99	35.67	
G62	33.01	25.37	35.07	23.21	33.79	41.23	31.35	44.87	33.01	
G63	30.71	23.44	32.59	21.33	31.49	38.52	28.96	42.24	30.71	
G64	28.41	21.51	30.52	19.4	29.28	36.22	26.89	39.62	28.41	
G65	26.29	19.63	28.32	17.74	27.31	33.79	24.82	37.23	26.29	
G66	24.18	17.88	26.43	15.77	25.33	31.53	22.75	34.61	24.18	
G67	22.25	16.23	24.27	14.34	23.44	29.33	20.73	32.45	22.25	
G68	20.41	14.66	22.43	12.78	21.51	27.17	19.03	30.11	20.41	
G69	18.57	13.15	20.78	11.22	20.0	25.28	17.38	27.99	18.57	
G70	16.92	11.91	19.03	9.88	18.2	23.4	15.63	25.79	16.92	
G71	15.26	10.34	17.61	8.64	16.55	21.56	14.07	23.95	15.26	
G72	13.74	9.19	15.95	7.45	15.12	19.95	12.83	22.11	13.74	
G73	12.37	7.81	14.48	6.3	13.74	18.34	11.35	20.27	12.37	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/1/7 15:17:11

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

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 15:17:11

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