

Report No.:

Test Time: 2025/6/30 17:15:38

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP100CT075H117-45°-25W
Lamp Type:
Luminous Width: 64 mm
Luminous Length: 64 mm
Luminous Height: 70 mm

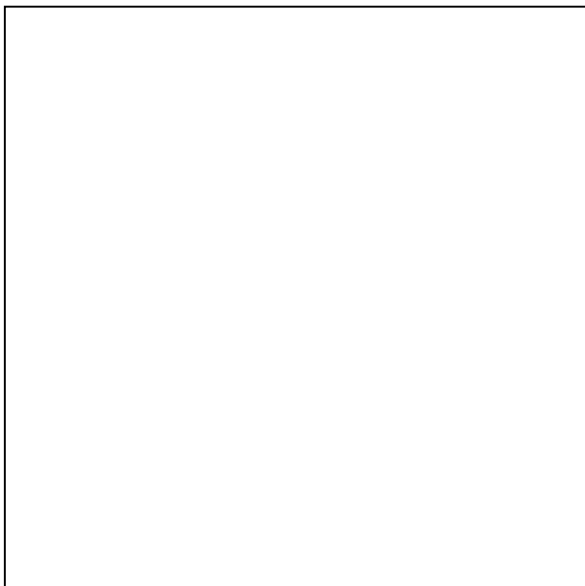
Voltage(V): 230.80 V
Current(A): 0.1060 A
Power(W): 23.40 W
Power Factor: 0.9520
Lamp Luminous Flux: 2099.14

Photometric Results

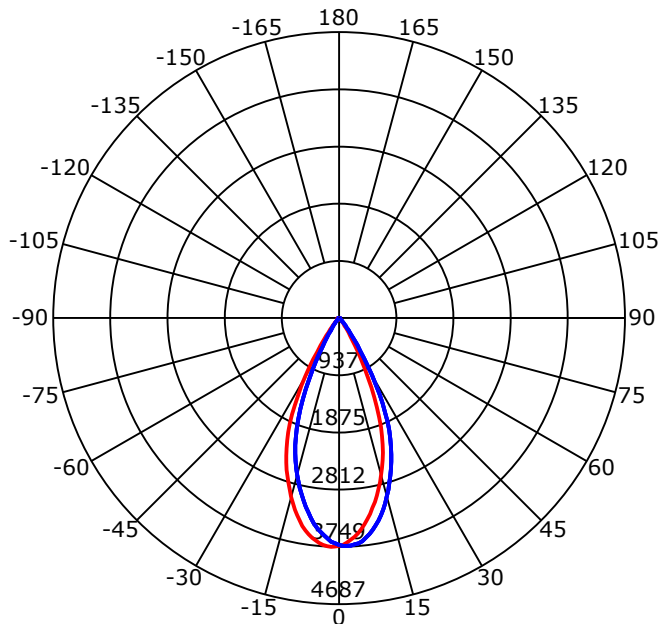
CIE Class: Direct
Luminaire Luminous Flux: 2099.136 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 89.73 lm/W
Beam Angle(50%) C0-180,C90-270: 46.5,46.5
Field Angle(10%) C0-180,C90-270: 67.4,67.8
S/MH C0-180,C90-270: 0.728,0.728

Max. Intensity: 3749.28 cd
Max.Intensity Angle: C=180 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 3735.35 cd
Effective Luminous Flux: 1960.98 lm
ERP(ϕ use)(120deg): 2096.12 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 46.5 deg,46.5 deg

C0-180 — C90-270 —

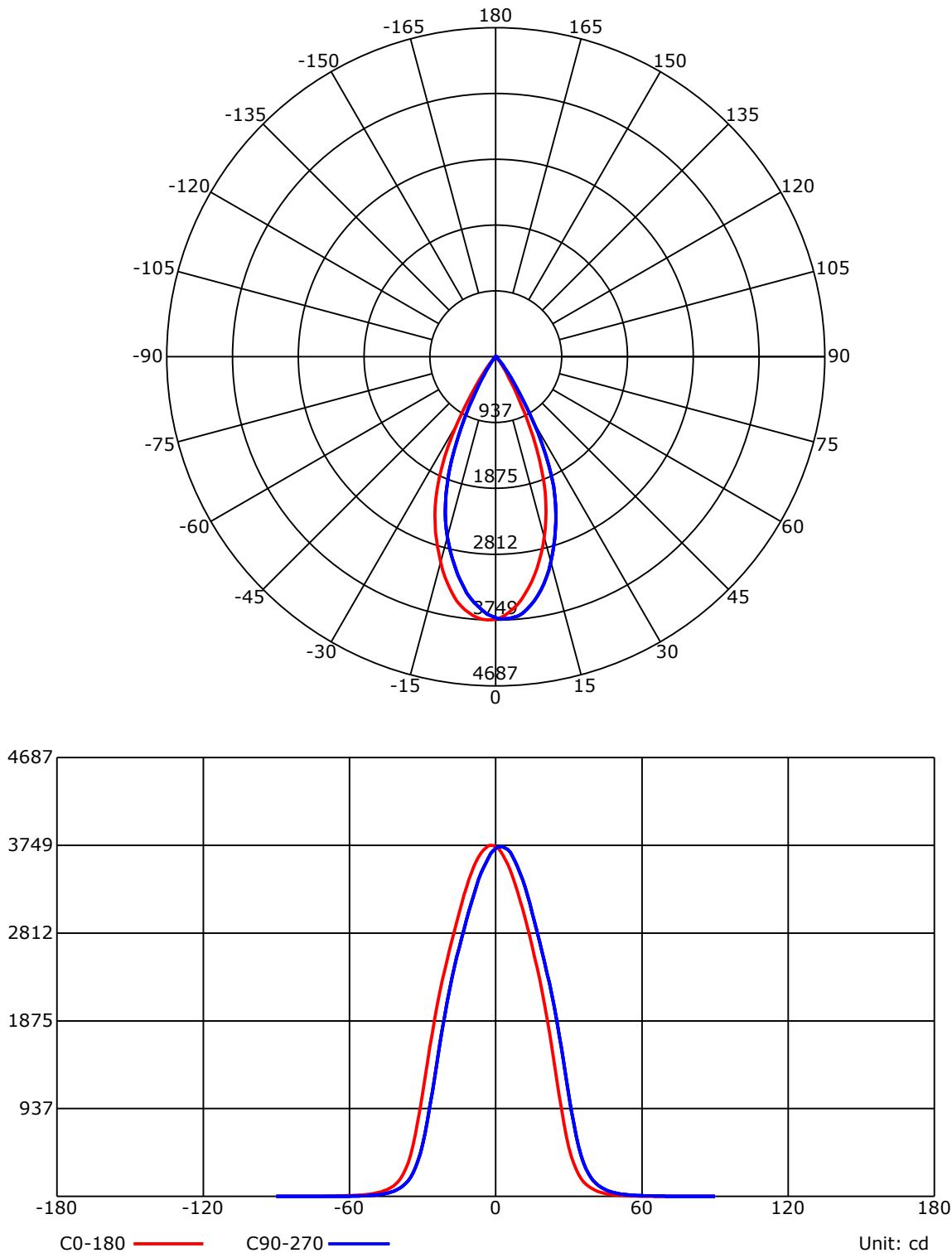
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/6/30 17:15:38

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.:

Test Time: 2025/6/30 17:15:38

Luminous Intensity Distribution Curve



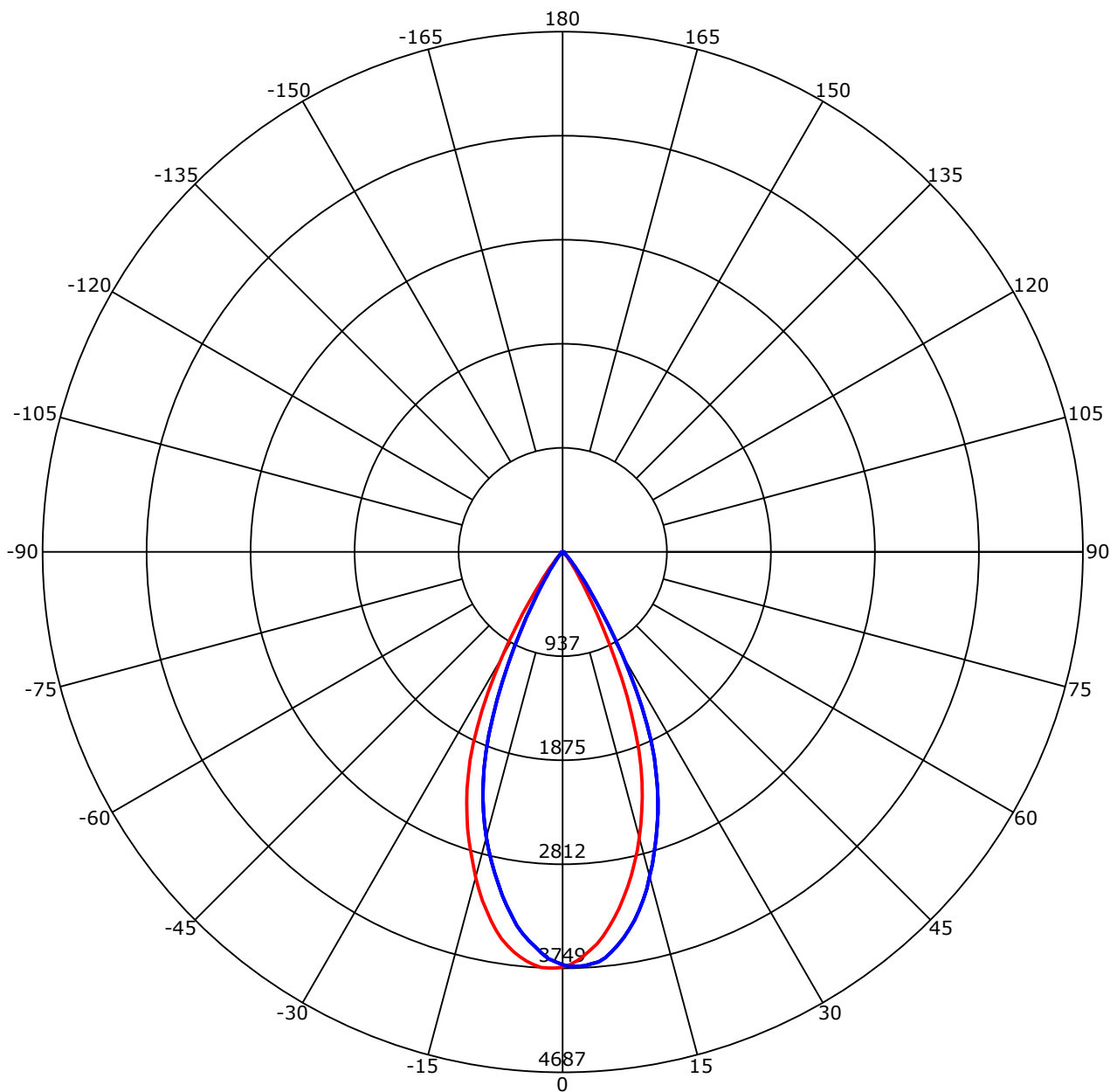
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Humidity: 60
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Remarks:

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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: 2025/6/30 17:15:38

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

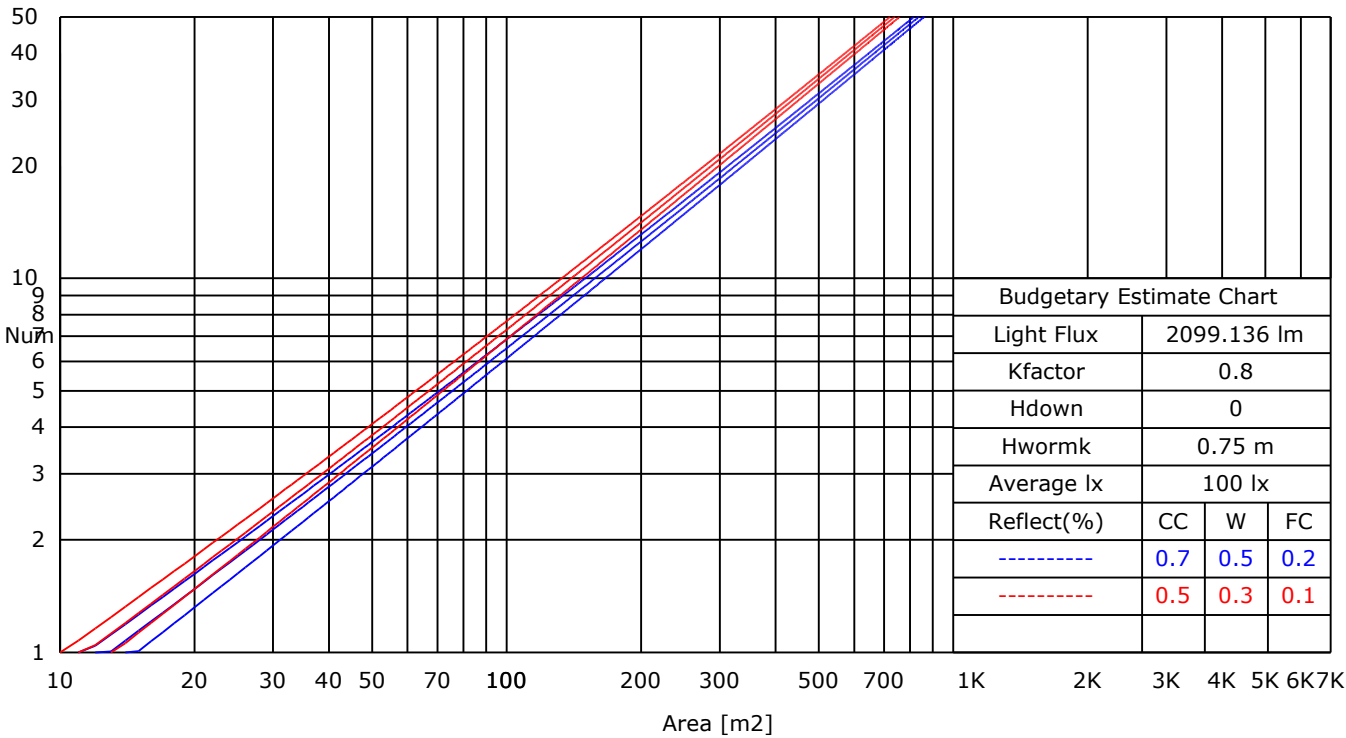
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UTILIZATION FACTORS TABLE

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	1.02	1.00	0.99	1.01	0.99	0.97	0.98	0.95	0.93	0.93	0.90	0.88	0.87	0.84	0.82	0.77
2	0.99	0.97	0.95	0.98	0.95	0.94	0.94	0.92	0.90	0.90	0.87	0.85	0.85	0.82	0.79	0.74
3	0.95	0.94	0.93	0.94	0.92	0.91	0.92	0.89	0.87	0.88	0.85	0.82	0.83	0.80	0.77	0.72
4	0.93	0.91	0.90	0.92	0.89	0.88	0.89	0.86	0.84	0.86	0.82	0.80	0.81	0.78	0.75	0.71
5	0.90	0.89	0.88	0.89	0.87	0.86	0.86	0.84	0.82	0.83	0.80	0.77	0.80	0.76	0.73	0.69
6	0.88	0.86	0.85	0.87	0.85	0.83	0.84	0.81	0.79	0.81	0.78	0.75	0.78	0.74	0.71	0.67
7	0.86	0.84	0.83	0.84	0.83	0.81	0.82	0.79	0.78	0.79	0.76	0.73	0.76	0.72	0.69	0.66
8	0.84	0.82	0.82	0.82	0.81	0.80	0.80	0.77	0.76	0.77	0.74	0.72	0.74	0.71	0.68	0.64
9	0.82	0.80	0.80	0.81	0.79	0.78	0.78	0.76	0.74	0.76	0.72	0.70	0.73	0.69	0.66	0.63
10	0.80	0.79	0.78	0.79	0.77	0.76	0.76	0.74	0.72	0.74	0.71	0.69	0.71	0.67	0.65	0.61

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



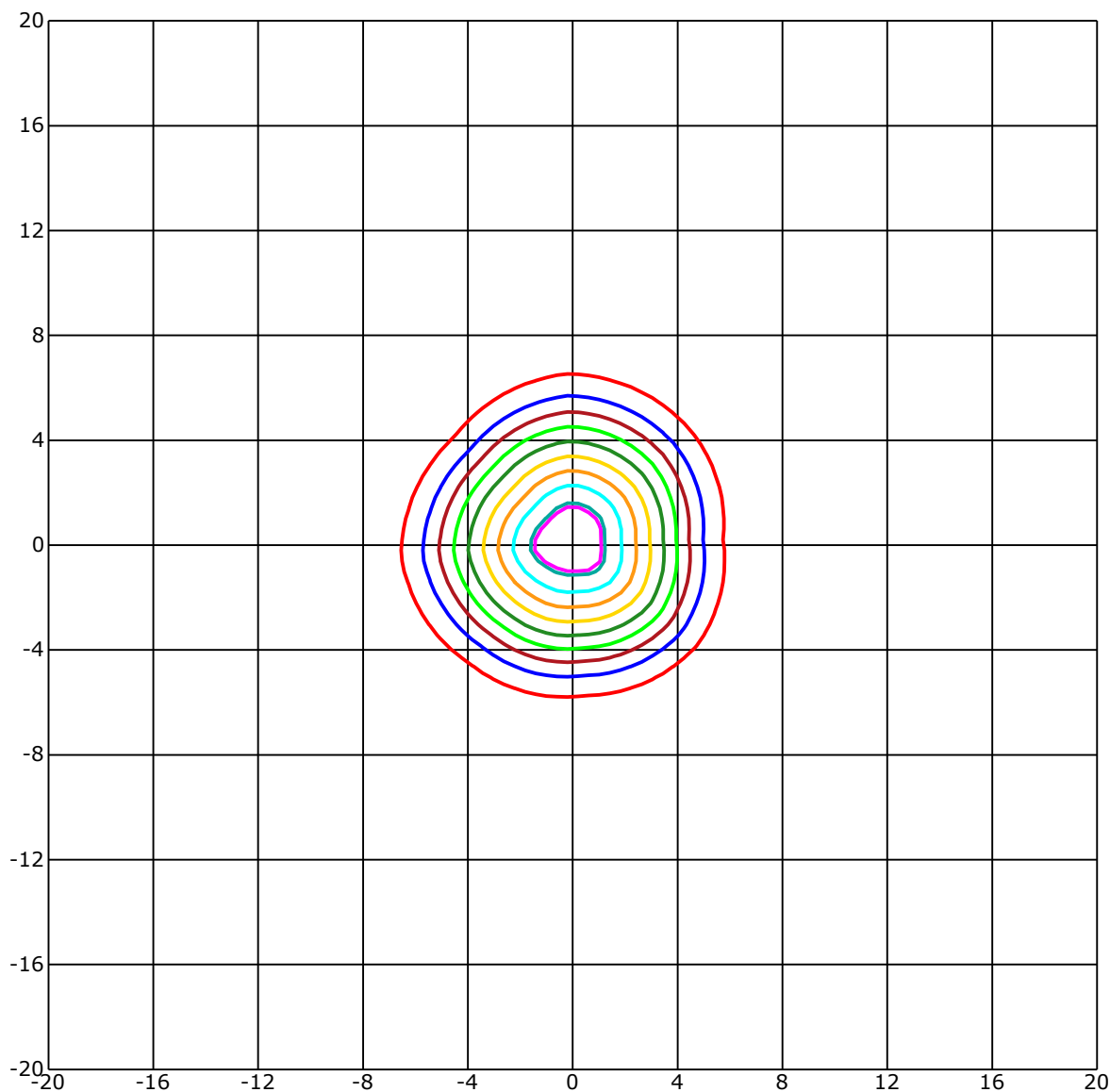
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Temperature: 25
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
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ISOLX DIAGRAM



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

34.488(92%Emax)	18.744(50%Emax)
33.738(90%Emax)	14.995(40%Emax)
29.99(80%Emax)	11.246(30%Emax)
26.241(70%Emax)	7.497(20%Emax)
22.492(60%Emax)	3.749(10%Emax)

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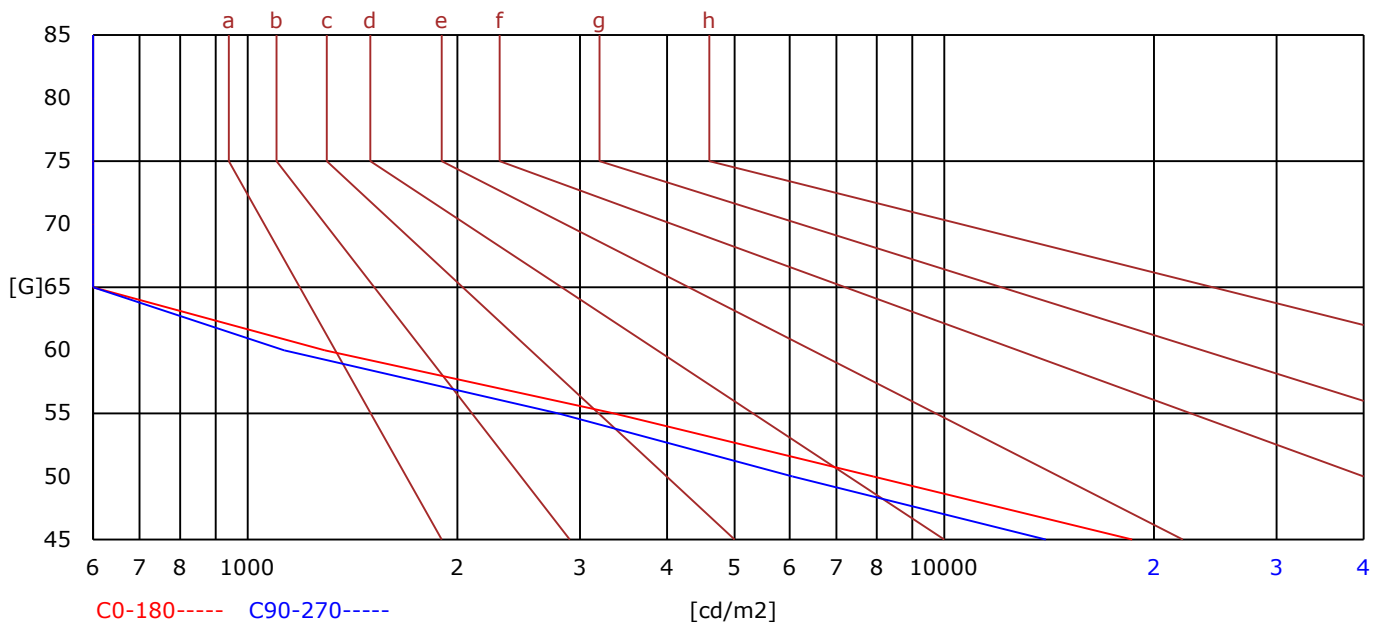
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	18609	7905	3355	1291	136	0	0	0	0
C90	13982	6059	2792	1129	109	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



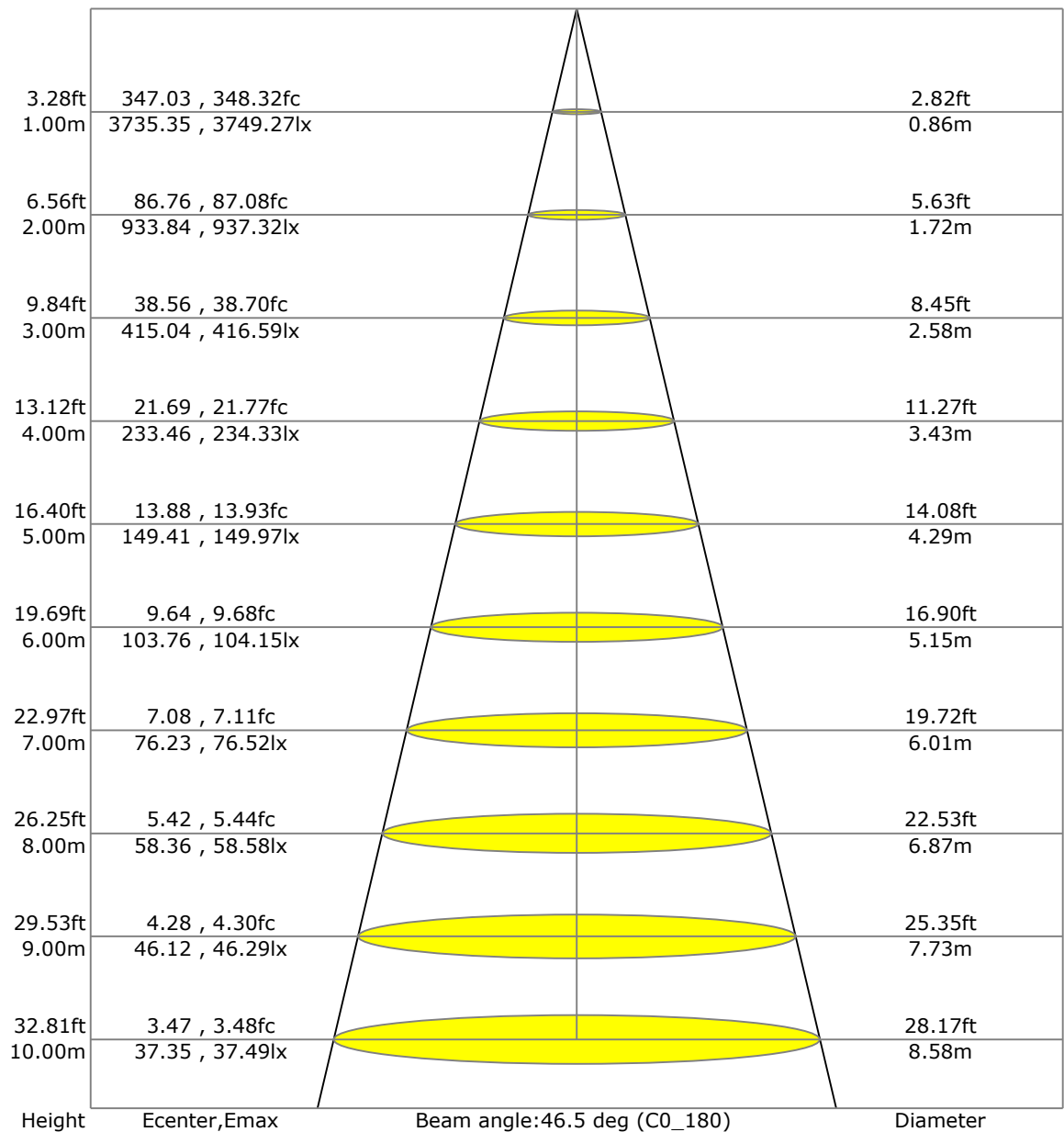
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C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/6/30 17:15:38

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	11.57	11.62	11.77	11.80	12.05	11.66	11.71	11.86	11.89	12.14
3H	11.54	11.59	11.75	11.79	12.03	11.63	11.68	11.84	11.88	12.12
4H	11.53	11.58	11.74	11.78	12.03	11.62	11.67	11.83	11.87	12.12
6H	11.52	11.57	11.73	11.77	12.02	11.61	11.66	11.82	11.86	12.11
8H	11.51	11.56	11.73	11.76	12.01	11.60	11.65	11.82	11.85	12.10
12H	11.50	11.55	11.72	11.75	12.01	11.59	11.64	11.81	11.84	12.10
4H 2H	11.53	11.58	11.74	11.78	12.02	11.63	11.68	11.84	11.87	12.12
3H	11.50	11.55	11.72	11.75	12.01	11.60	11.65	11.82	11.85	12.11
4H	11.48	11.53	11.71	11.74	12.00	11.58	11.63	11.81	11.84	12.10
6H	11.46	11.51	11.70	11.73	11.99	11.56	11.61	11.79	11.83	12.09
8H	11.45	11.49	11.69	11.72	11.99	11.54	11.59	11.79	11.82	12.08
12H	11.43	11.48	11.68	11.71	11.98	11.53	11.58	11.78	11.81	12.08
8H 4H	11.51	11.56	11.73	11.76	12.01	11.61	11.66	11.83	11.86	12.11
6H	11.42	11.47	11.67	11.70	11.98	11.52	11.57	11.78	11.80	12.08
8H	11.41	11.45	11.67	11.70	11.97	11.51	11.55	11.77	11.80	12.07
12H	11.39	11.43	11.66	11.69	11.97	11.49	11.53	11.76	11.79	12.07
12H 4H	11.43	11.48	11.68	11.71	11.98	11.53	11.58	11.78	11.81	12.08
6H	11.41	11.45	11.67	11.70	11.97	11.51	11.55	11.77	11.80	12.07

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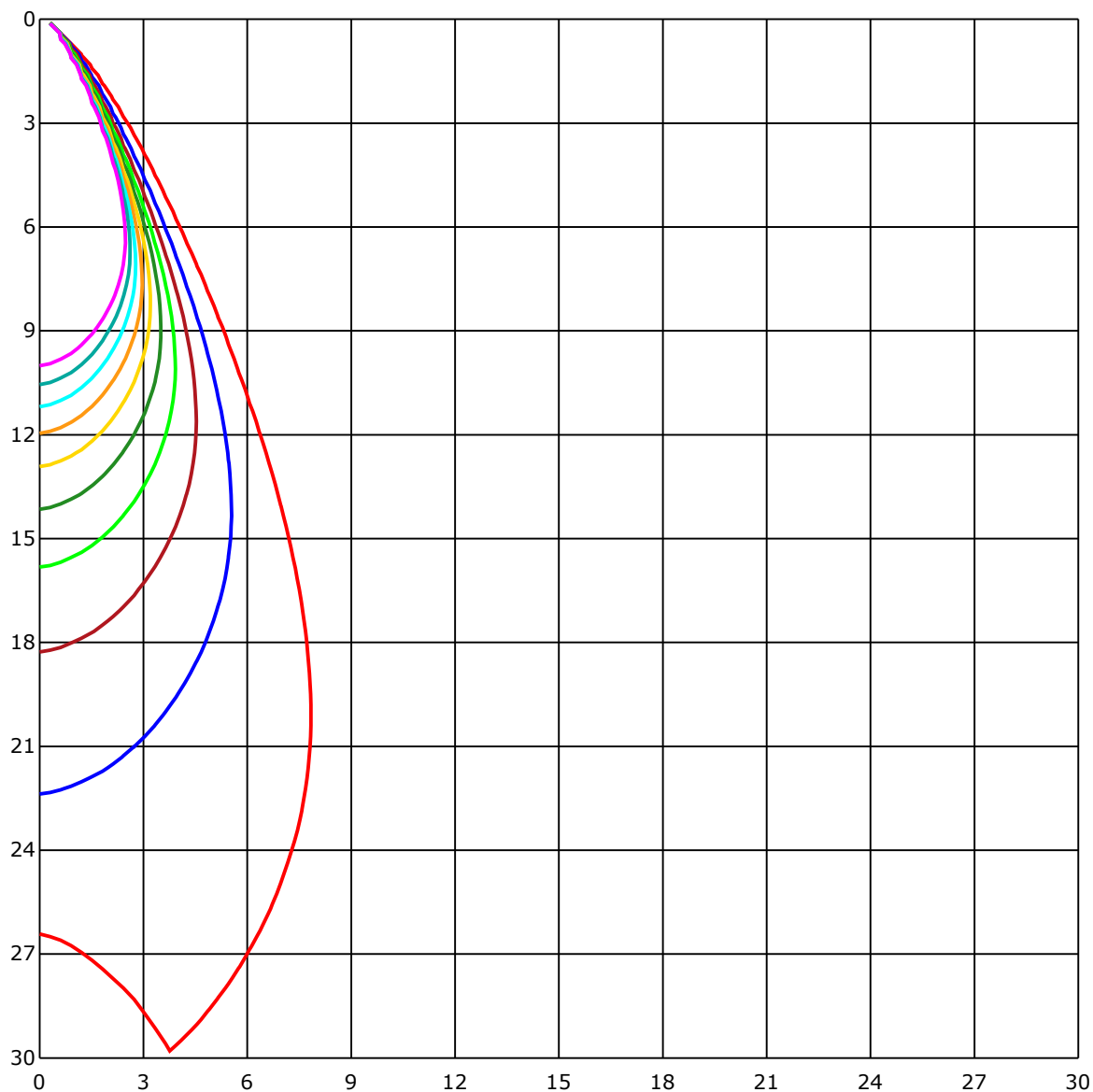
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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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SPACE ISOLX DIAGRAM



Unit of illumination:lx



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
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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:

Report No.:

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	3735.35	3721.24	3716.38	3748.71	3735.35	3721.24	3716.38	3748.71	3735.35	
G1	3717.04	3730.54	3735.02	3743.99	3746.54	3707.46	3692.26	3741.16	3717.04	
G2	3684.57	3724.45	3733.84	3729.07	3749.28	3687.35	3665.17	3729.5	3684.57	
G3	3641.29	3710.01	3731.86	3708.26	3745.5	3660.31	3617.08	3707.79	3641.29	
G4	3592.82	3689.29	3717.65	3679.0	3725.11	3610.04	3564.92	3675.55	3592.82	
G5	3544.72	3656.96	3705.24	3644.17	3700.71	3561.76	3513.43	3630.86	3544.72	
G6	3477.33	3618.49	3674.09	3593.1	3666.44	3506.92	3456.09	3577.43	3477.33	
G7	3406.63	3563.65	3625.05	3543.35	3627.79	3441.93	3390.01	3523.2	3406.63	
G8	3329.65	3504.46	3573.32	3476.1	3579.98	3369.58	3307.42	3456.61	3329.65	
G9	3251.16	3433.86	3516.55	3404.22	3526.65	3289.39	3223.78	3378.83	3251.16	
G10	3159.55	3359.9	3451.08	3317.71	3458.16	3209.67	3139.59	3300.15	3159.55	
G11	3070.16	3282.17	3380.29	3234.03	3382.7	3132.08	3045.52	3224.82	3070.16	
G12	2974.44	3196.41	3303.55	3151.43	3299.72	3045.57	2954.05	3129.11	2974.44	
G13	2873.39	3105.98	3216.56	3059.26	3221.05	2950.66	2854.85	3035.09	2873.39	
G14	2773.53	3019.23	3128.49	2945.56	3127.5	2859.33	2759.18	2947.64	2773.53	
G15	2666.48	2912.9	3024.61	2845.69	3033.39	2758.23	2658.84	2860.18	2666.48	
G16	2550.33	2808.97	2928.05	2742.9	2929.04	2656.57	2556.66	2749.5	2550.33	
G17	2436.92	2710.94	2818.22	2635.95	2829.88	2549.2	2442.96	2652.61	2436.92	
G18	2322.61	2605.41	2717.6	2527.96	2731.9	2439.28	2330.06	2543.25	2322.61	
G19	2189.65	2490.63	2610.74	2423.84	2634.11	2319.26	2202.87	2433.0	2189.65	
G20	2055.76	2379.34	2505.49	2305.0	2523.52	2199.71	2073.69	2315.48	2055.76	
G21	1913.17	2258.04	2390.0	2193.29	2415.07	2065.86	1927.24	2185.22	1913.17	
G22	1752.94	2129.52	2277.96	2056.42	2299.24	1922.99	1775.31	2045.61	1752.94	
G23	1589.88	1998.55	2151.99	1920.96	2177.1	1772.9	1617.58	1900.34	1589.88	
G24	1424.45	1859.94	2026.26	1770.36	2050.0	1622.87	1452.63	1742.37	1424.45	
G25	1251.99	1705.41	1883.63	1616.87	1909.16	1459.09	1284.13	1581.05	1251.99	
G26	1084.59	1543.15	1730.9	1452.44	1755.96	1296.26	1123.85	1412.93	1084.59	
G27	925.11	1378.01	1570.71	1280.83	1597.62	1135.37	968.2	1243.73	925.11	
G28	772.52	1213.24	1406.8	1111.96	1432.52	978.06	813.96	1075.43	772.52	
G29	635.51	1052.35	1239.77	951.68	1271.2	830.67	675.39	917.74	635.51	
G30	523.46	902.26	1078.69	798.15	1106.15	693.89	558.72	768.74	523.46	
G31	429.78	756.85	922.7	659.53	951.3	576.27	457.76	637.68	429.78	
G32	348.97	629.84	776.53	537.43	797.63	474.47	372.57	521.48	348.97	
G33	285.64	519.97	641.36	434.64	657.17	388.38	302.96	422.98	285.64	
G34	232.44	427.75	531.48	349.16	538.38	319.05	247.08	343.64	232.44	
G35	189.78	350.91	436.71	281.91	437.85	261.33	202.52	281.1	189.78	
G36	157.31	288.37	360.54	227.02	355.3	214.51	165.76	231.08	157.31	

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	130.97	236.27	297.86	184.54	290.02	177.79	135.97	191.48	130.97	
G38	109.26	194.55	245.05	151.12	235.75	148.39	113.13	161.04	109.26	
G39	91.8	160.0	202.85	124.79	193.41	124.36	94.87	136.02	91.8	
G40	76.27	133.0	168.68	103.55	159.62	105.39	79.53	114.55	76.27	
G41	63.48	111.1	141.02	86.18	133.85	88.92	66.45	96.61	63.48	
G42	52.86	92.88	118.42	71.64	112.66	75.52	55.88	81.7	52.86	
G43	43.94	77.83	100.48	59.09	95.62	64.57	46.3	69.52	43.94	
G44	36.48	64.85	85.38	48.9	80.71	55.13	38.56	59.09	36.48	
G45	30.11	53.9	72.02	40.49	68.77	46.54	31.86	50.26	30.11	
G46	24.68	44.46	61.26	33.56	58.85	39.83	26.48	42.24	24.68	
G47	20.44	36.86	51.49	27.8	50.17	34.22	22.09	36.01	20.44	
G48	16.94	30.54	43.37	22.98	42.76	29.5	18.31	30.63	16.94	
G49	14.21	25.16	37.0	19.11	36.62	25.49	15.29	26.43	14.21	
G50	11.7	20.81	31.62	15.95	31.43	22.18	12.93	22.89	11.7	
G51	9.82	17.04	26.76	13.26	27.0	19.21	10.76	20.01	9.82	
G52	8.07	14.06	23.03	11.23	23.36	16.9	9.01	17.89	8.07	
G53	6.84	11.56	19.96	9.44	20.67	14.87	7.55	15.72	6.84	
G54	5.71	9.44	17.56	7.69	18.12	13.17	6.32	13.92	5.71	
G55	4.63	7.88	15.2	6.56	16.09	11.7	5.43	12.55	4.63	
G56	3.78	6.51	13.4	5.47	14.44	10.43	4.2	11.19	3.78	
G57	3.07	5.38	11.8	4.67	12.84	9.16	3.4	10.01	3.07	
G58	2.31	4.34	10.62	3.82	11.42	8.12	2.74	8.78	2.31	
G59	1.75	3.3	9.25	2.97	10.1	7.32	2.22	7.83	1.75	
G60	1.13	2.64	8.12	2.31	8.97	6.61	1.51	6.99	1.13	
G61	0.8	2.12	7.32	1.7	8.12	5.81	0.99	6.32	0.8	
G62	0.38	1.51	6.51	1.27	7.22	5.24	0.8	5.47	0.38	
G63	0.0	0.99	5.71	0.9	6.42	4.63	0.24	5.05	0.0	
G64	0.0	0.61	5.1	0.61	5.76	4.11	0.0	4.34	0.0	
G65	0.0	0.24	4.58	0.19	5.29	3.35	0.0	3.73	0.0	
G66	0.0	0.0	4.25	0.0	4.67	2.5	0.0	2.74	0.0	
G67	0.0	0.0	3.54	0.0	4.2	1.79	0.0	2.22	0.0	
G68	0.0	0.0	3.07	0.0	3.49	1.79	0.0	2.01	0.0	
G69	0.0	0.0	2.27	0.0	2.6	1.42	0.0	1.79	0.0	
G70	0.0	0.0	1.89	0.0	1.84	1.27	0.0	1.46	0.0	
G71	0.0	0.0	1.65	0.0	1.56	1.18	0.0	1.56	0.0	
G72	0.0	0.0	1.42	0.0	1.51	1.18	0.0	1.23	0.0	
G73	0.0	0.0	1.32	0.0	1.46	1.04	0.0	1.13	0.0	

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Operators: QC01
Test Date: 2025/6/30 17:15:38

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

Test Speed: High

Operators: OC01

Test Date: 2025/

Test Date: 2025/6/30 17:15:38

G Interval: 1.0 Deg

Test System: Huipu

Humidity: 60

Test Distance

Remarks:

REMARKS.