

Report No.:

Test Time: 2025/7/16 17:38:50

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
 Luminaire Type: IBSP104SCT095H78-3F-45°
 Lamp Type:
 Luminous Width: 90 mm
 Luminous Length: 280 mm
 Luminous Height: 70 mm

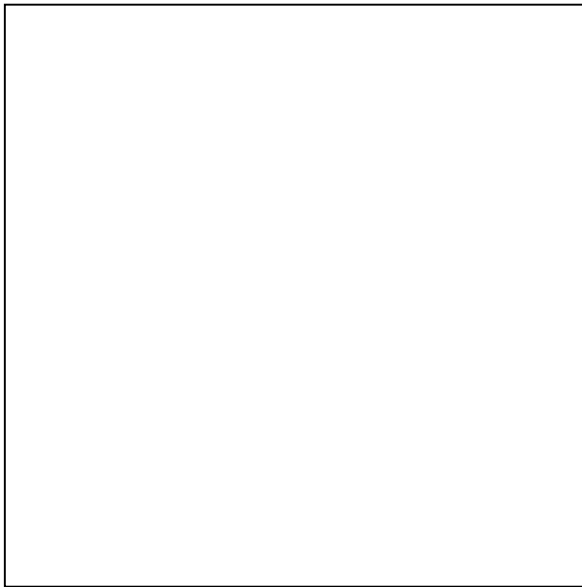
Voltage(V): 219.80 V
 Current(A): 0.1530 A
 Power(W): 30.96 W
 Power Factor: 0.9160
 Lamp Luminous Flux: 3013.87

Photometric Results

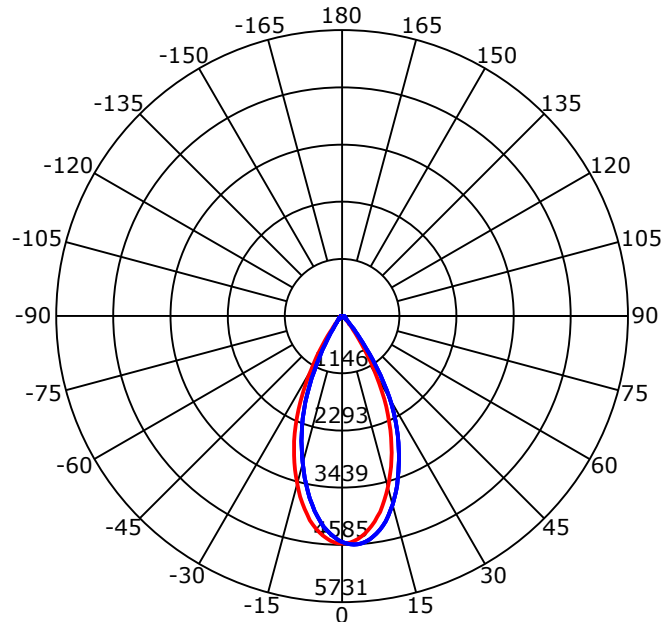
CIE Class: Direct
 Luminaire Luminous Flux: 3013.873 lm
 Downward Ratio: 100.00%
 Luminaire Efficacy Rating(LER): 97.35 lm/W
 Beam Angle(50%) C0-180,C90-270: 48.0,47.8
 Field Angle(10%) C0-180,C90-270: 73.9,73.6
 S/MH C0-180,C90-270: 0.768,0.768

Max. Intensity: 4585.13 cd
 Max.Intensity Angle: C=90 Gamma=3
 Upward Ratio: 0.00%
 Efficacy: 100.00%
 Center Intensity: 4561.53 cd
 Effective Luminous Flux: 2699.80 lm
 ERP(ϕ use)(120deg): 2958.75 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 48.0 deg,47.8 deg

C0-180 — C90-270

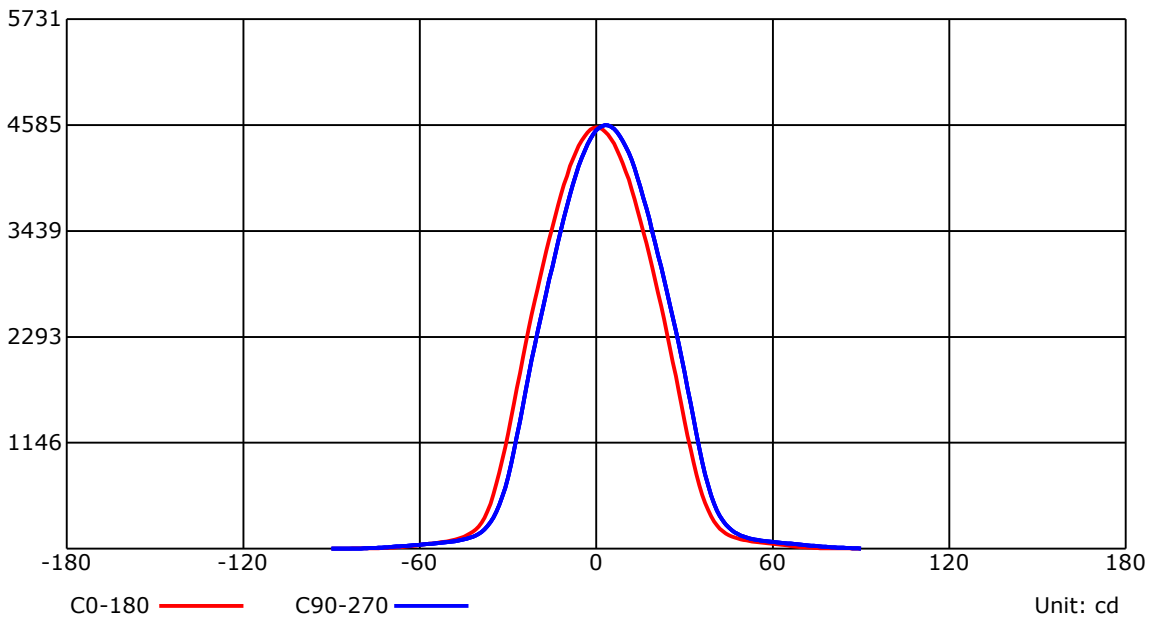
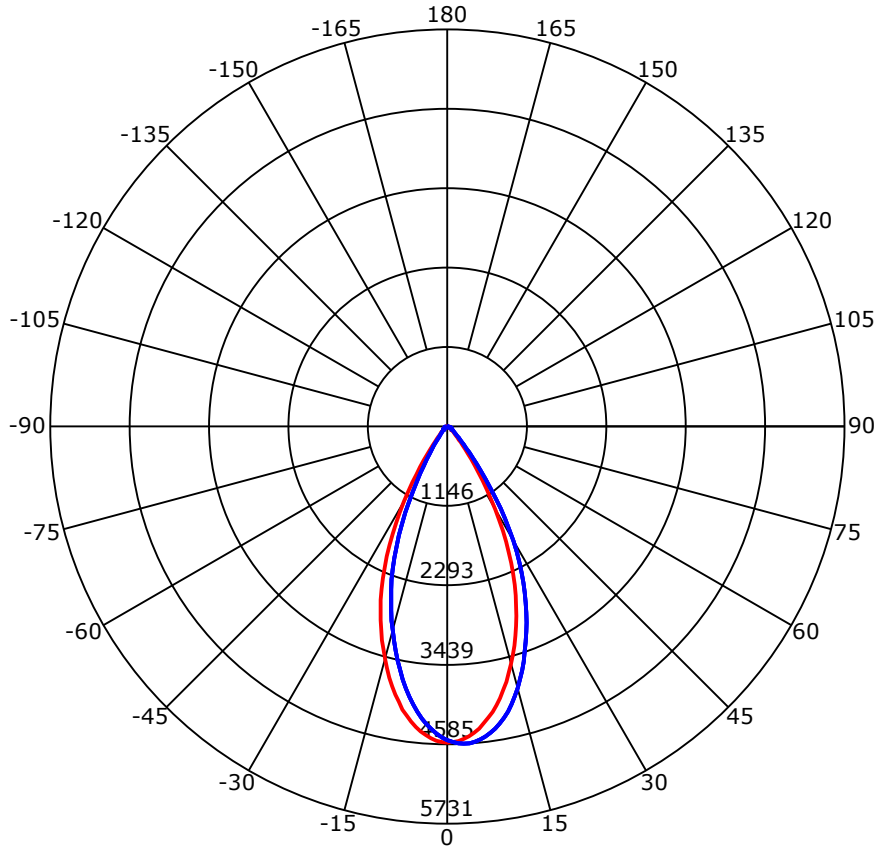
C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 25
 Operators: QC01
 Test Date: 2025/7/16 17:38:50

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 Intensity Distribution Curve



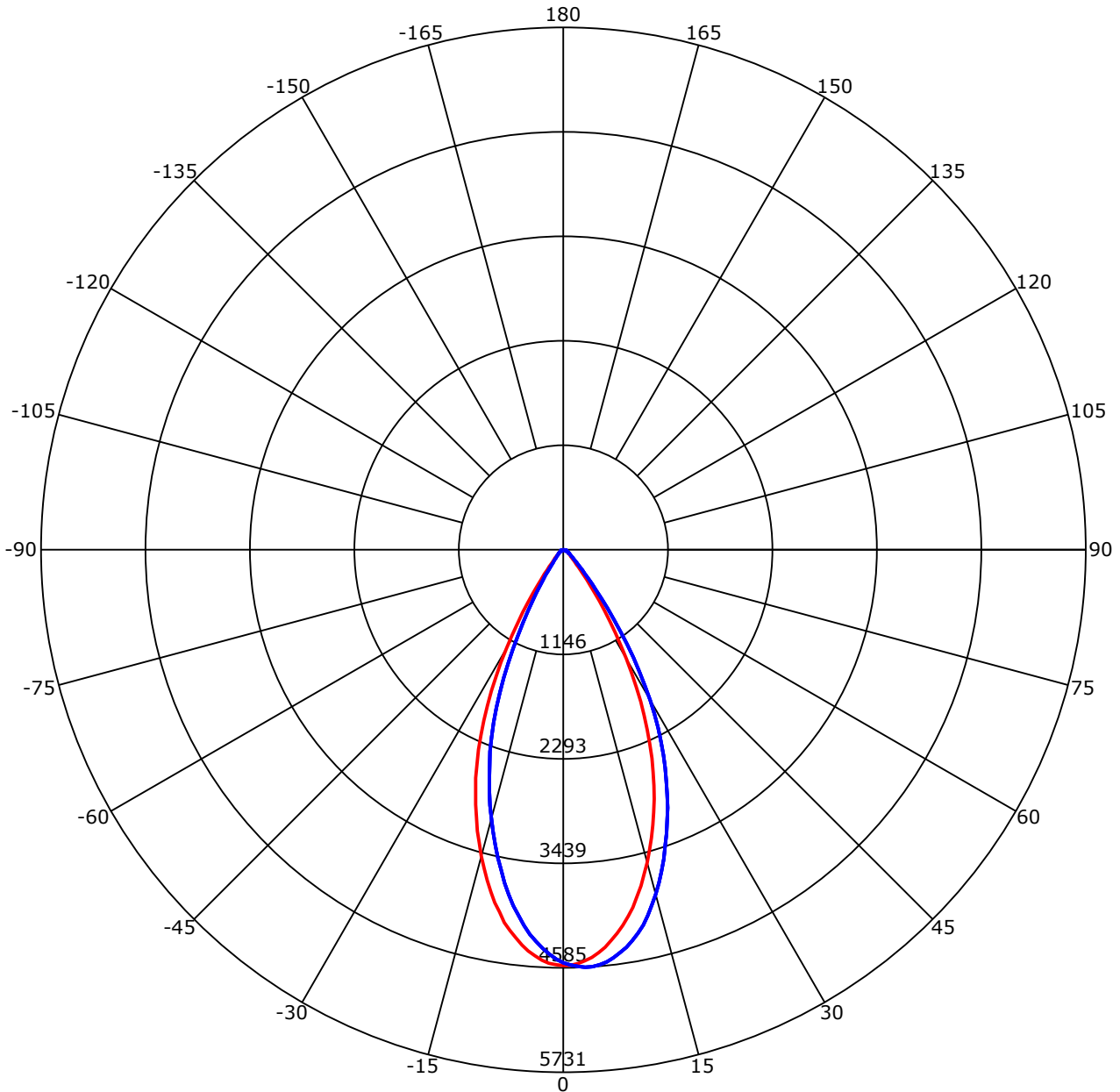
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 Remarks:

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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: 2025/7/16 17:38:50

G Range: 0 - 90 Deg
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 Humidity: 60
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 Remarks:

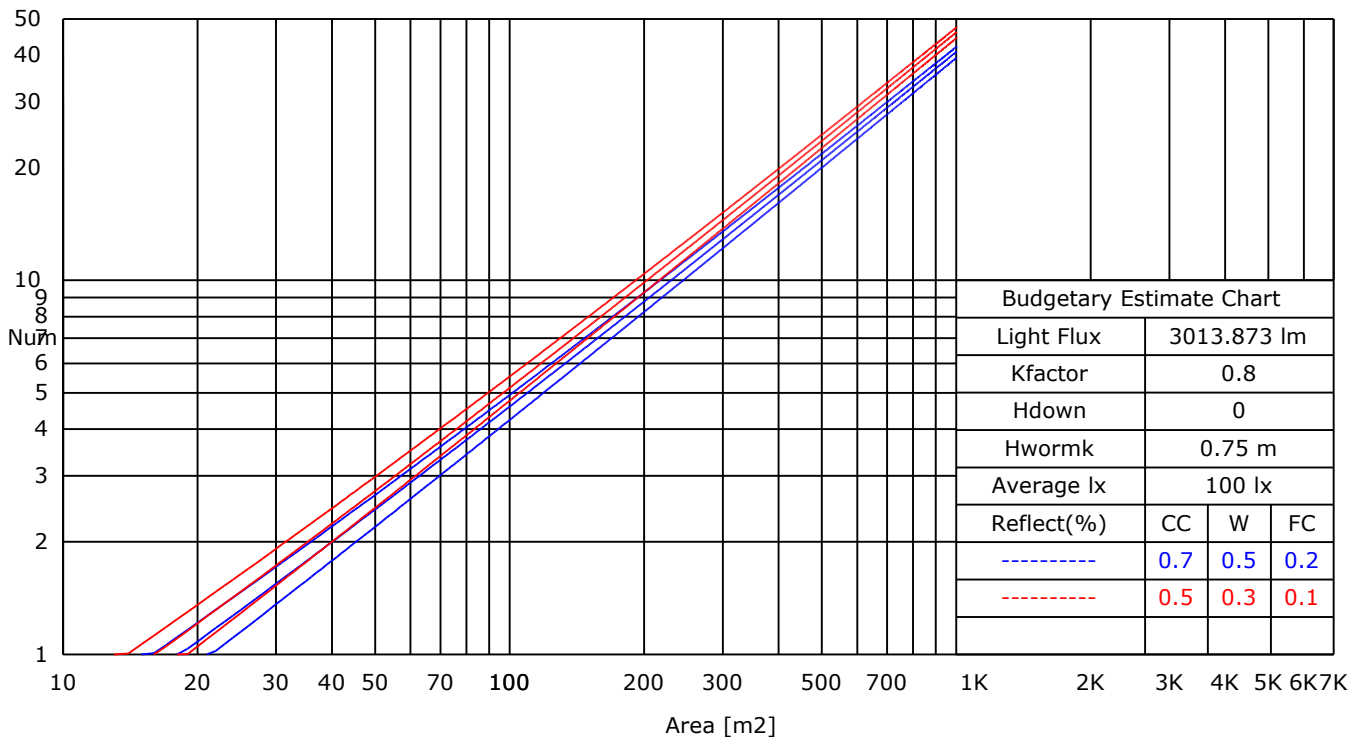
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UTILIZATION FACTORS TABLE

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	1.04	1.03	1.01	1.03	1.01	0.99	0.99	0.97	0.95	0.95	0.92	0.90	0.88	0.86	0.84	0.78
2	0.99	0.97	0.96	0.98	0.96	0.94	0.95	0.92	0.90	0.91	0.88	0.85	0.85	0.82	0.80	0.75
3	0.95	0.93	0.92	0.94	0.92	0.90	0.91	0.88	0.86	0.87	0.84	0.82	0.83	0.79	0.76	0.72
4	0.91	0.90	0.88	0.90	0.88	0.87	0.88	0.85	0.83	0.84	0.81	0.78	0.80	0.77	0.74	0.69
5	0.88	0.86	0.85	0.87	0.85	0.83	0.85	0.82	0.80	0.82	0.78	0.75	0.78	0.74	0.71	0.67
6	0.85	0.83	0.83	0.84	0.82	0.81	0.82	0.79	0.77	0.79	0.75	0.73	0.76	0.72	0.69	0.65
7	0.82	0.81	0.80	0.81	0.79	0.78	0.79	0.76	0.74	0.77	0.73	0.70	0.74	0.70	0.66	0.63
8	0.80	0.78	0.78	0.79	0.77	0.76	0.77	0.74	0.72	0.74	0.71	0.68	0.72	0.68	0.64	0.61
9	0.77	0.76	0.75	0.77	0.75	0.74	0.75	0.72	0.70	0.72	0.69	0.66	0.70	0.66	0.63	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



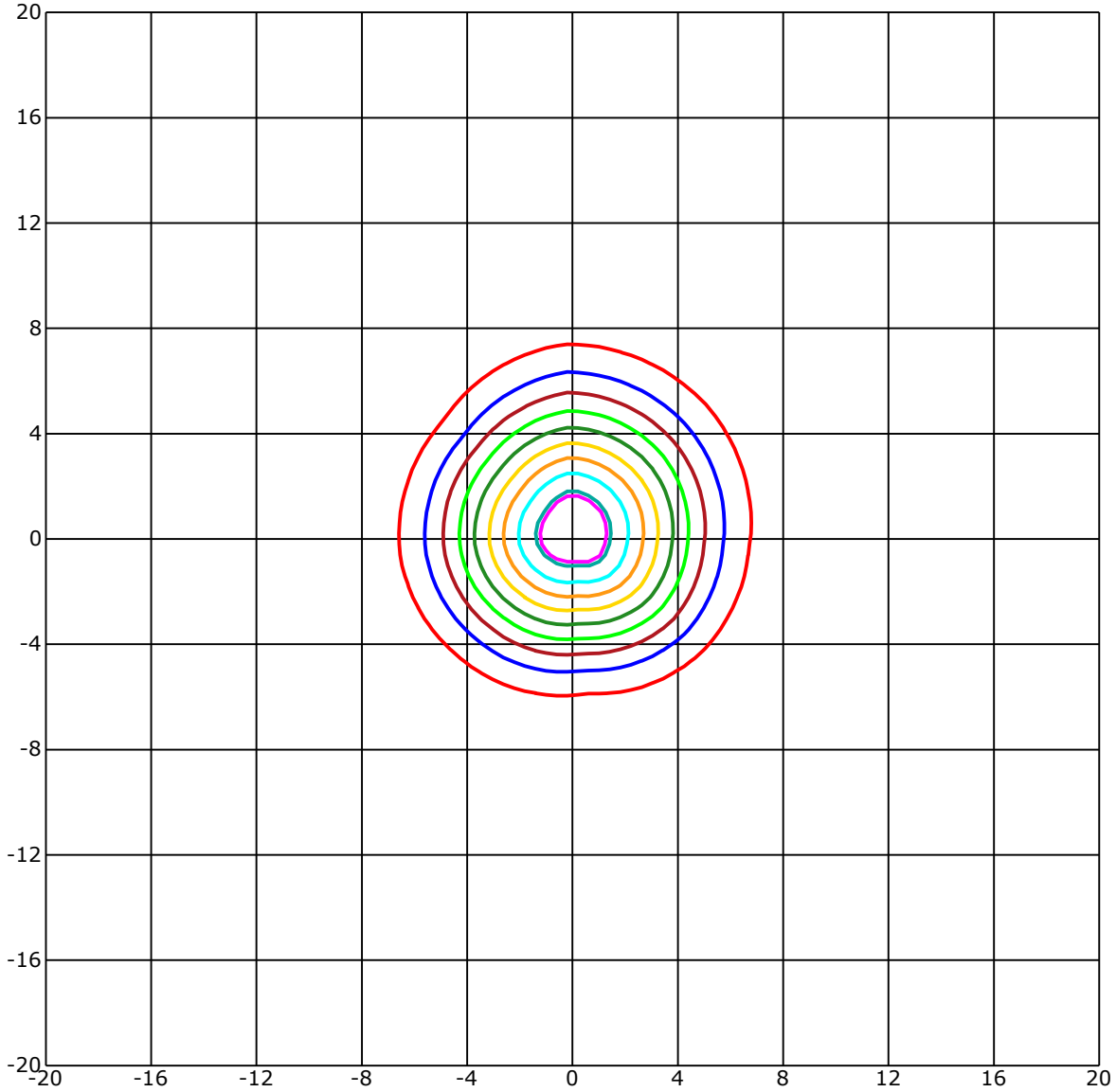
C Range: 0 - 360 Deg
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 Test Speed: High
 Temperature: 25
 Operators: QC01
 Test Date: 2025/7/16 17:38:50

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



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

— 42.01(92%Emax)	— 22.832(50%Emax)
— 41.097(90%Emax)	— 18.265(40%Emax)
— 36.53(80%Emax)	— 13.699(30%Emax)
— 31.964(70%Emax)	— 9.133(20%Emax)
— 27.398(60%Emax)	— 4.566(10%Emax)

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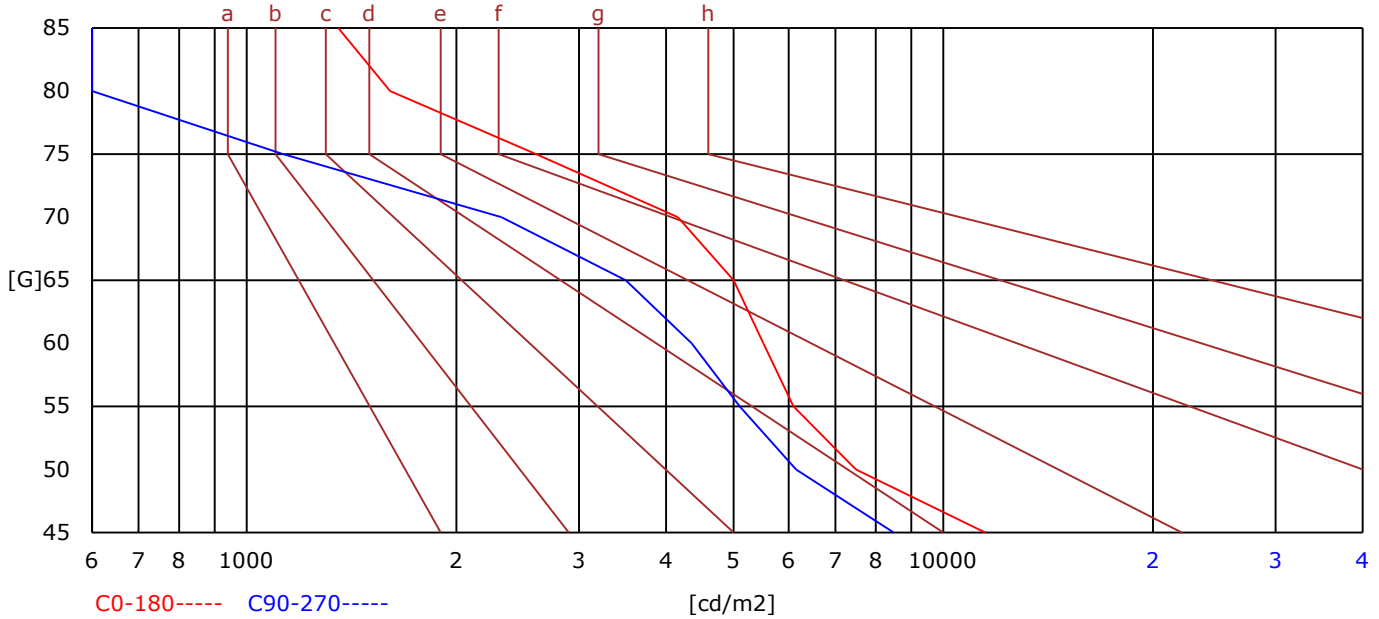
G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1600B Goniophotometer
 Humidity: 60
 Test Distance: 6.87 m
 Remarks:

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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	11482	7491	6096	5521	4999	4162	2605	1607	1354
C90	8486	6148	5104	4356	3501	2322	1129	399	258
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



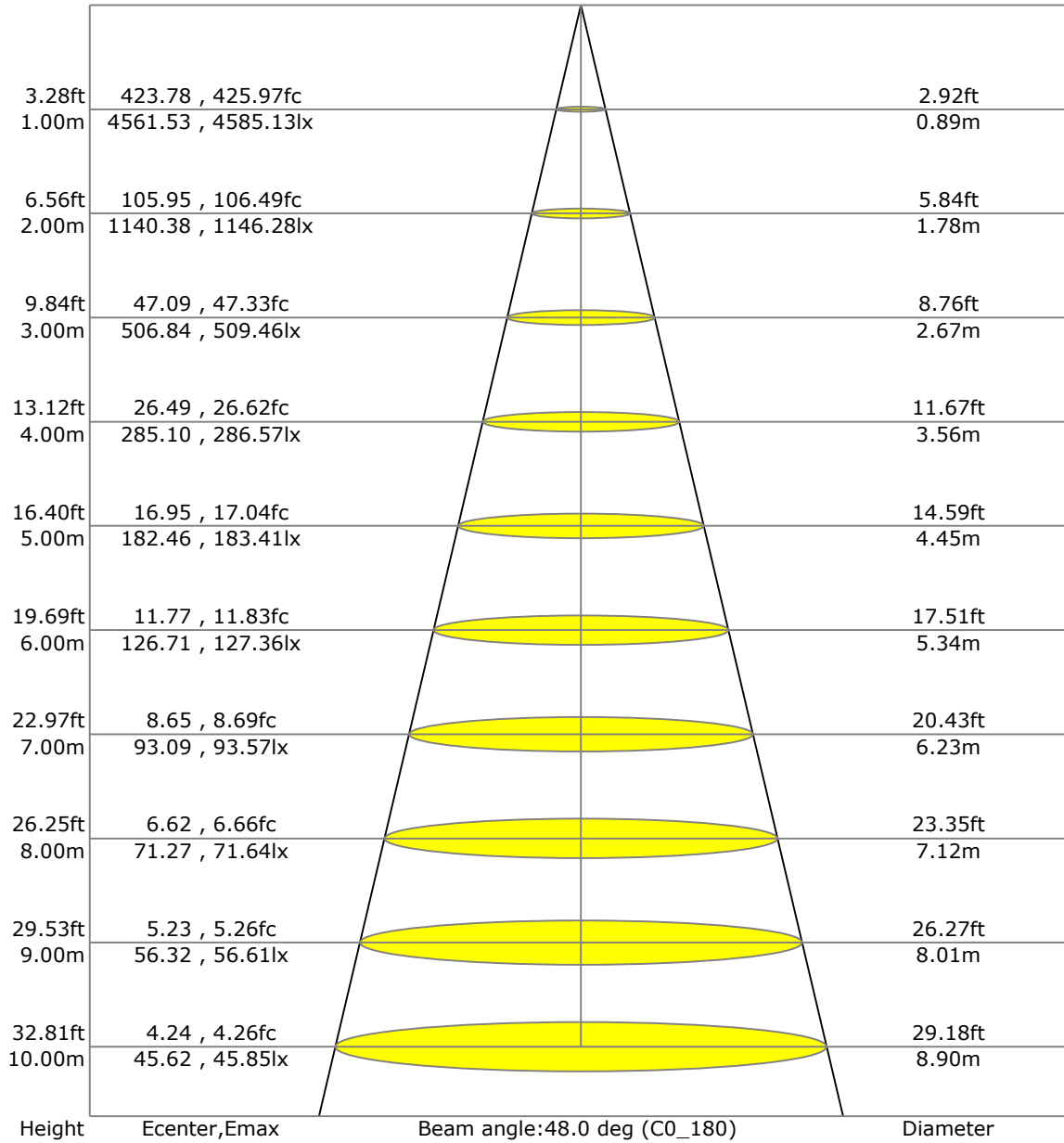
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 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 25
 Operators: QC01
 Test Date: 2025/7/16 17:38:50

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: 2025/7/16 17:38:50

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	Viewed Endwise					Viewed Crosswise				
2H 2H	10.57	10.62	10.77	10.81	11.05	10.70	10.75	10.90	10.94	11.18
3H	10.58	10.63	10.78	10.82	11.07	10.70	10.75	10.90	10.94	11.19
4H	10.57	10.62	10.78	10.82	11.06	10.68	10.74	10.89	10.93	11.18
6H	10.55	10.60	10.77	10.80	11.05	10.67	10.72	10.88	10.92	11.17
8H	10.54	10.59	10.76	10.80	11.05	10.66	10.71	10.88	10.91	11.17
12H	10.53	10.58	10.75	10.79	11.04	10.65	10.70	10.87	10.91	11.16
4H 2H	10.77	10.83	10.98	11.02	11.27	11.15	11.20	11.36	11.39	11.64
3H	10.81	10.86	11.03	11.07	11.32	11.18	11.23	11.40	11.43	11.69
4H	10.80	10.85	11.03	11.07	11.33	11.16	11.21	11.39	11.43	11.68
6H	10.79	10.84	11.02	11.06	11.32	11.14	11.19	11.38	11.41	11.67
8H	10.77	10.82	11.02	11.05	11.32	11.13	11.18	11.37	11.40	11.67
12H	10.76	10.81	11.01	11.04	11.31	11.12	11.16	11.36	11.39	11.66
8H 4H	10.76	10.81	10.98	11.02	11.27	11.23	11.28	11.44	11.48	11.73
6H	10.78	10.82	11.03	11.06	11.33	11.25	11.29	11.50	11.53	11.80
8H	10.76	10.81	11.02	11.05	11.33	11.23	11.28	11.49	11.52	11.80
12H	10.75	10.79	11.02	11.04	11.32	11.22	11.26	11.49	11.51	11.79
12H 4H	10.79	10.84	11.04	11.07	11.34	11.30	11.35	11.55	11.58	11.85
6H	10.77	10.81	11.03	11.06	11.34	11.29	11.33	11.55	11.57	11.85

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

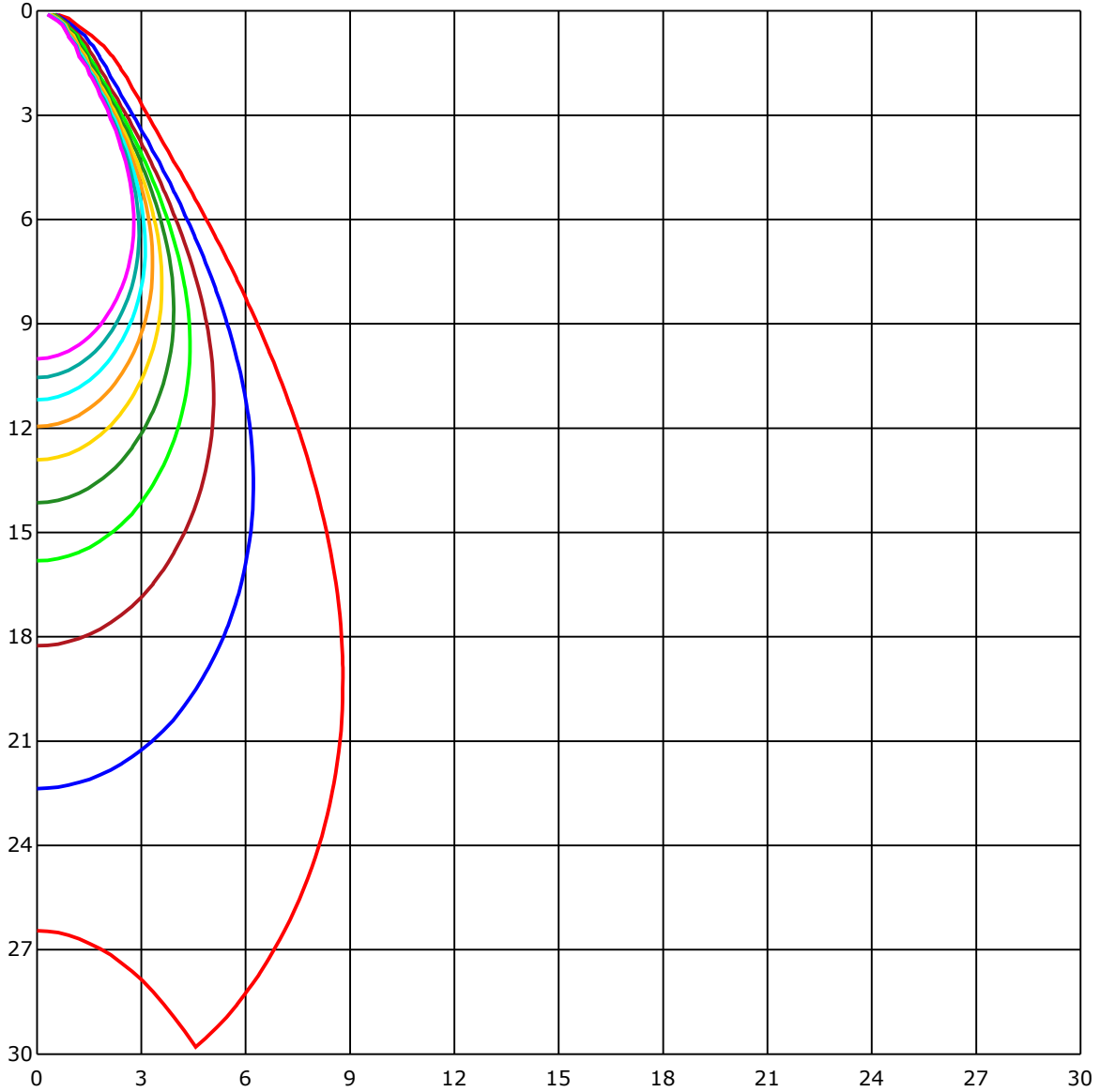
ZONAL LUMINOUS FLUX TABLE

Gamma [deg]	I _{mean} [cd]	Zonal Flux [lm]	Sum Flux [lm]	Zonal Flux [%]	Sum Flux [%]
0	4549.86	0.00	0.00	0.00	0.00
5	4463.86	107.18	107.18	3.56	3.56
10	4141.79	302.72	409.90	10.04	13.60
15	3615.85	446.83	856.73	14.83	28.43
20	2978.08	520.94	1377.67	17.28	45.71
25	2265.96	518.71	1896.38	17.21	62.92
30	1476.96	431.87	2328.24	14.33	77.25
35	771.90	283.59	2611.83	9.41	86.66
40	347.38	150.97	2762.81	5.01	91.67
45	172.65	79.03	2841.84	2.62	94.29
50	107.66	49.82	2891.65	1.65	95.94
55	78.10	37.28	2928.93	1.24	97.18
60	59.24	29.82	2958.75	0.99	98.17
65	42.29	22.98	2981.73	0.76	98.93
70	26.05	15.57	2997.30	0.52	99.45
75	13.56	8.90	3006.21	0.30	99.75
80	6.52	4.50	3010.71	0.15	99.89
85	3.34	2.23	3012.94	0.07	99.97
90	1.05	0.94	3013.88	0.03	100.00

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SPACE ISOLX DIAGRAM



Unit of illumination:lx

- | | |
|----------|----------|
| — 45.605 | — 22.802 |
| — 41.044 | — 18.242 |
| — 36.484 | — 13.681 |
| — 31.923 | — 9.121 |
| — 27.363 | — 4.56 |

C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 25
 Operators: QC01
 Test Date: 2025/7/16 17:38:50

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: 2025/7/16 17:38:50

LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	4561.53	4549.64	4528.68	4559.6	4561.53	4549.64	4528.68	4559.6	4561.53	
G1	4556.77	4563.19	4555.92	4557.99	4553.09	4526.28	4489.98	4549.83	4556.77	
G2	4541.71	4567.67	4573.62	4545.82	4537.94	4490.17	4436.32	4529.86	4541.71	
G3	4513.49	4562.57	4585.13	4526.94	4507.26	4438.54	4376.1	4494.18	4513.49	
G4	4482.53	4543.32	4583.2	4495.98	4463.41	4376.29	4306.06	4460.11	4482.53	
G5	4434.9	4515.38	4569.18	4455.25	4418.24	4306.58	4233.0	4408.24	4434.9	
G6	4384.03	4478.23	4543.69	4408.62	4359.77	4229.65	4141.58	4349.95	4384.03	
G7	4315.97	4432.26	4509.15	4344.33	4288.74	4145.63	4042.46	4278.59	4315.97	
G8	4245.98	4372.04	4462.47	4274.62	4214.87	4045.2	3942.07	4213.22	4245.98	
G9	4169.75	4307.47	4413.62	4208.41	4140.63	3943.49	3829.7	4121.23	4169.75	
G10	4084.0	4233.99	4352.88	4114.67	4034.16	3839.28	3710.53	4023.82	4084.0	
G11	3994.98	4147.29	4284.39	4020.8	3941.74	3717.79	3579.84	3923.86	3994.98	
G12	3885.72	4062.76	4208.08	3912.39	3833.43	3598.72	3452.83	3807.66	3885.72	
G13	3782.17	3961.52	4116.33	3805.25	3719.68	3470.15	3323.7	3693.49	3782.17	
G14	3664.41	3860.94	4012.49	3684.76	3597.44	3347.63	3186.97	3572.19	3664.41	
G15	3550.67	3748.05	3912.81	3564.36	3477.89	3215.95	3047.13	3453.73	3550.67	
G16	3430.22	3635.29	3799.78	3434.94	3346.64	3082.19	2916.58	3325.35	3430.22	
G17	3305.81	3514.56	3685.13	3310.11	3224.54	2950.94	2770.65	3195.51	3305.81	
G18	3176.92	3391.81	3568.56	3173.05	3089.27	2803.45	2627.31	3062.8	3176.92	
G19	3046.61	3265.7	3432.68	3040.14	2954.86	2666.01	2487.42	2931.26	3046.61	
G20	2909.55	3139.59	3309.45	2902.8	2815.81	2514.89	2350.55	2794.72	2909.55	
G21	2768.57	3008.33	3177.96	2771.45	2682.34	2368.34	2196.17	2656.76	2768.57	
G22	2628.49	2880.33	3051.14	2631.7	2528.9	2217.69	2040.23	2513.14	2628.49	
G23	2485.53	2746.39	2914.41	2492.99	2380.9	2063.21	1879.05	2370.09	2485.53	
G24	2329.12	2608.24	2778.53	2344.27	2224.77	1907.23	1717.4	2218.16	2329.12	
G25	2177.57	2467.88	2639.77	2190.79	2066.89	1750.86	1546.88	2066.94	2177.57	
G26	2019.6	2319.35	2507.85	2026.49	1901.23	1593.18	1381.78	1905.34	2019.6	
G27	1867.11	2165.63	2358.38	1858.71	1737.93	1433.09	1217.87	1744.4	1867.11	
G28	1703.01	2011.58	2214.29	1682.71	1570.9	1272.15	1062.03	1576.09	1703.01	
G29	1542.06	1850.35	2061.89	1509.03	1412.08	1118.57	912.22	1409.44	1542.06	
G30	1380.84	1693.47	1908.83	1335.39	1247.89	972.87	776.72	1242.41	1380.84	
G31	1225.37	1531.96	1740.2	1176.52	1097.99	838.45	659.29	1084.16	1225.37	
G32	1077.6	1375.93	1575.29	1015.87	952.62	714.04	559.24	934.22	1077.6	
G33	936.2	1220.47	1410.15	874.84	822.31	607.52	471.92	802.54	936.2	
G34	805.6	1076.94	1245.24	749.3	703.75	512.51	400.09	681.76	805.6	
G35	688.23	939.88	1087.42	639.23	589.49	433.93	338.21	577.83	688.23	
G36	583.02	815.8	940.73	542.91	486.74	368.04	286.86	489.86	583.02	

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	495.0	699.46	805.32	461.07	403.16	314.8	243.63	416.51	495.0	
G38	416.28	597.7	683.6	391.69	335.29	272.47	208.33	355.16	416.28	
G39	350.44	508.22	577.31	336.66	282.52	237.45	180.58	305.88	350.44	
G40	296.77	432.13	489.72	287.38	241.22	208.52	159.76	264.54	296.77	
G41	253.07	366.53	414.81	248.77	209.46	184.54	142.58	230.89	253.07	
G42	216.16	312.44	354.17	216.49	183.31	165.33	128.61	203.04	216.16	
G43	187.37	268.83	303.15	190.25	162.22	149.33	117.14	180.95	187.37	
G44	164.53	233.86	262.37	167.97	145.04	136.35	108.51	162.59	164.53	
G45	146.97	204.6	230.04	151.22	130.59	125.69	100.2	148.43	146.97	
G46	132.53	181.14	201.44	137.11	118.09	116.25	93.21	136.35	132.53	
G47	121.48	161.51	178.07	125.26	107.42	108.27	86.89	126.58	121.48	
G48	111.48	145.7	159.86	115.44	98.36	101.61	81.93	118.04	111.48	
G49	103.13	132.29	144.52	107.14	90.62	95.43	76.98	111.2	103.13	
G50	95.81	121.34	132.95	99.59	83.96	89.86	73.06	104.35	95.81	
G51	89.39	112.28	122.1	93.26	78.44	84.86	69.33	99.21	89.39	
G52	83.4	105.06	113.46	87.88	73.2	79.95	66.08	93.92	83.4	
G53	78.44	98.69	105.77	82.74	68.81	75.42	62.91	89.49	78.44	
G54	73.77	93.07	98.92	78.16	64.23	71.22	59.99	85.47	73.77	
G55	70.04	88.12	92.79	73.77	60.08	66.97	57.11	81.7	70.04	
G56	66.31	83.87	87.88	69.52	56.16	63.15	54.56	77.97	66.31	
G57	62.87	79.81	83.35	65.7	52.39	59.28	51.73	74.62	62.87	
G58	59.33	76.22	79.48	62.06	48.24	55.69	48.94	71.36	59.33	
G59	55.98	72.78	75.56	58.48	44.65	51.92	46.25	68.34	55.98	
G60	52.67	69.57	72.4	54.89	41.06	47.9	43.66	64.94	52.67	
G61	48.85	66.22	69.1	51.68	37.24	44.27	40.59	61.5	48.85	
G62	45.31	63.15	66.22	47.53	32.75	40.92	37.47	58.29	45.31	
G63	41.82	59.7	63.2	44.08	28.22	37.14	34.97	54.98	41.82	
G64	38.14	56.49	60.55	40.68	24.68	33.7	32.71	51.35	38.14	
G65	34.03	53.24	57.63	37.29	21.95	30.06	30.25	47.39	34.03	
G66	28.79	49.79	54.8	33.7	19.21	26.19	28.08	43.75	28.79	
G67	24.68	46.06	51.63	30.25	16.9	22.28	25.63	40.26	24.68	
G68	21.24	42.71	48.28	26.71	14.54	19.11	23.46	36.39	21.24	
G69	18.64	39.27	44.46	23.17	12.7	16.28	21.19	32.71	18.64	
G70	16.38	35.87	41.49	20.01	10.57	14.02	18.74	28.88	16.38	
G71	14.3	32.24	38.89	17.04	9.11	11.94	16.14	25.34	14.3	
G72	12.22	28.6	36.29	13.69	7.6	9.96	13.64	21.8	12.22	
G73	10.34	24.68	33.7	11.23	6.61	8.07	11.61	18.64	10.34	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/7/16 17:38:50

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: 2025/7/16 17:38:50

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G74	8.73	20.53	30.91	9.11	5.9	6.65	10.62	16.0	8.73	
G75	7.08	16.99	28.37	7.36	5.29	5.57	9.44	14.06	7.08	
G76	5.9	14.54	25.68	5.71	5.14	5.05	8.31	11.75	5.9	
G77	4.86	12.46	22.89	4.48	4.96	4.67	7.13	9.91	4.86	
G78	4.34	10.52	20.29	3.26	4.67	4.39	5.76	8.35	4.34	
G79	4.11	8.68	17.65	2.31	4.44	3.96	3.82	7.22	4.11	
G80	4.01	7.03	15.62	1.75	4.25	3.63	2.36	6.09	4.01	
G81	3.92	5.52	14.25	1.42	3.87	3.21	1.51	5.57	3.92	
G82	3.73	4.34	12.93	1.13	3.45	2.74	0.9	5.14	3.73	
G83	3.68	3.49	11.7	0.99	2.93	2.17	0.0	4.91	3.68	
G84	3.49	3.21	10.67	0.85	2.5	1.56	0.0	4.44	3.49	
G85	3.3	2.97	9.34	0.57	2.08	1.04	0.0	4.06	3.3	
G86	2.93	2.83	7.5	0.24	1.32	0.57	0.0	3.63	2.93	
G87	2.64	2.64	5.57	0.0	0.85	0.33	0.0	3.07	2.64	
G88	2.22	2.45	4.2	0.0	0.33	0.28	0.0	2.03	2.22	
G89	1.7	2.12	3.07	0.0	0.19	0.09	0.0	1.23	1.7	
G90	1.49	1.93	0.0	0.0	0.0	0.09	0.0	1.23	1.49	

C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 25
 Operators: QC01
 Test Date: 2025/7/16 17:38:50

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