

Report No.:

Test Time: 2025/6/12 10:18:44

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBDL125CT140-28W
Lamp Type:
Luminous Width: 128 mm
Luminous Length: 128 mm
Luminous Height: 100 mm

Voltage(V): 219.60 V
Current(A): 0.1280 A
Power(W): 26.53 W
Power Factor: 0.9410
Lamp Luminous Flux: 3318.09

Photometric Results

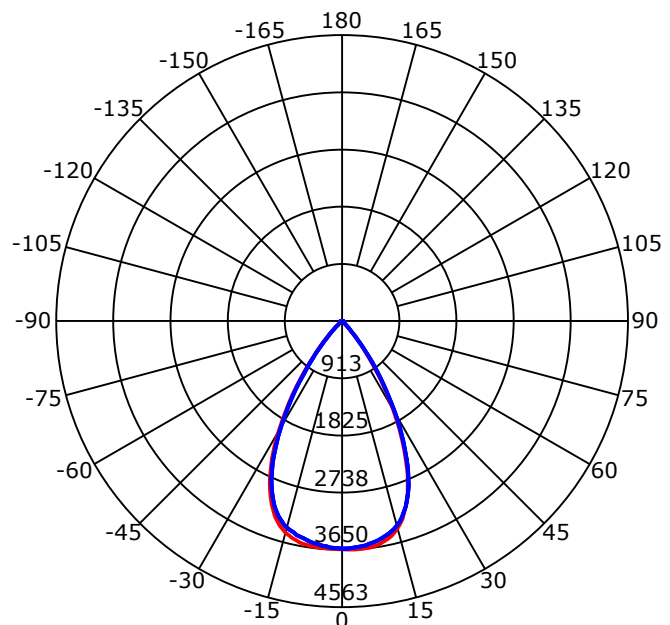
CIE Class: Direct
Luminaire Luminous Flux: 3318.085 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 125.06 lm/W
Beam Angle(50%) C0-180,C90-270: 60.0,60.0
Field Angle(10%) C0-180,C90-270: 82.6,82.6
S/MH C0-180,C90-270: 0.975,0.975

Max. Intensity: 3650.02 cd
Max.Intensity Angle: C=0 Gamma=4
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 3638.83 cd
Effective Luminous Flux: 3169.89 lm
ERP(ϕ use)(120deg): 3287.97 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 60.0 deg,60.0 deg

C0-180 — C90-270 —

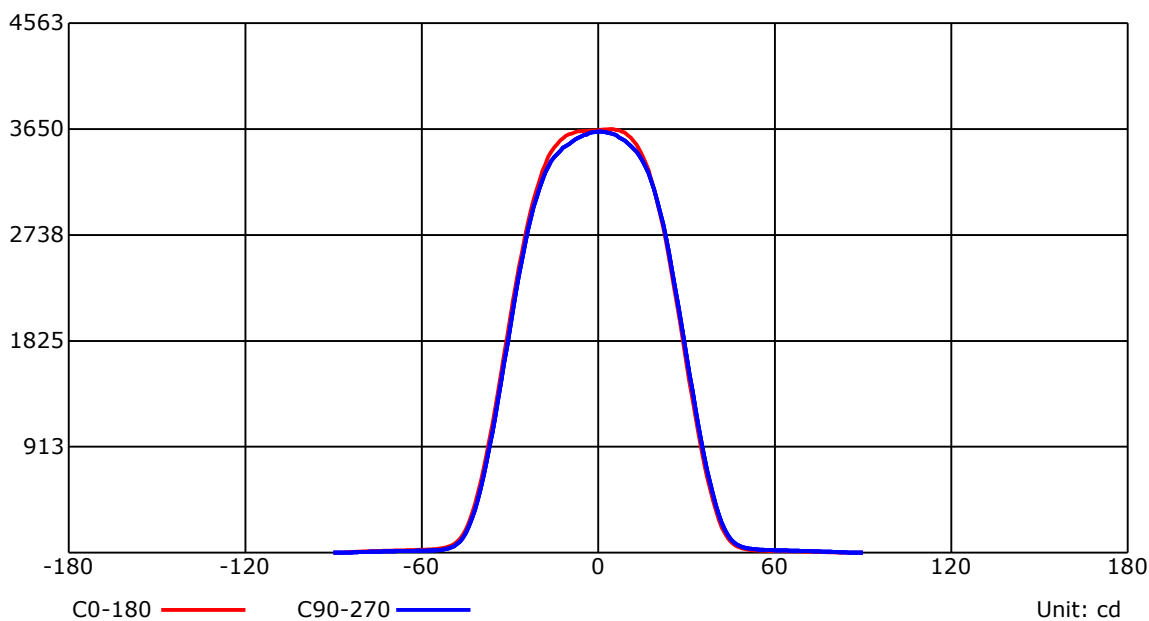
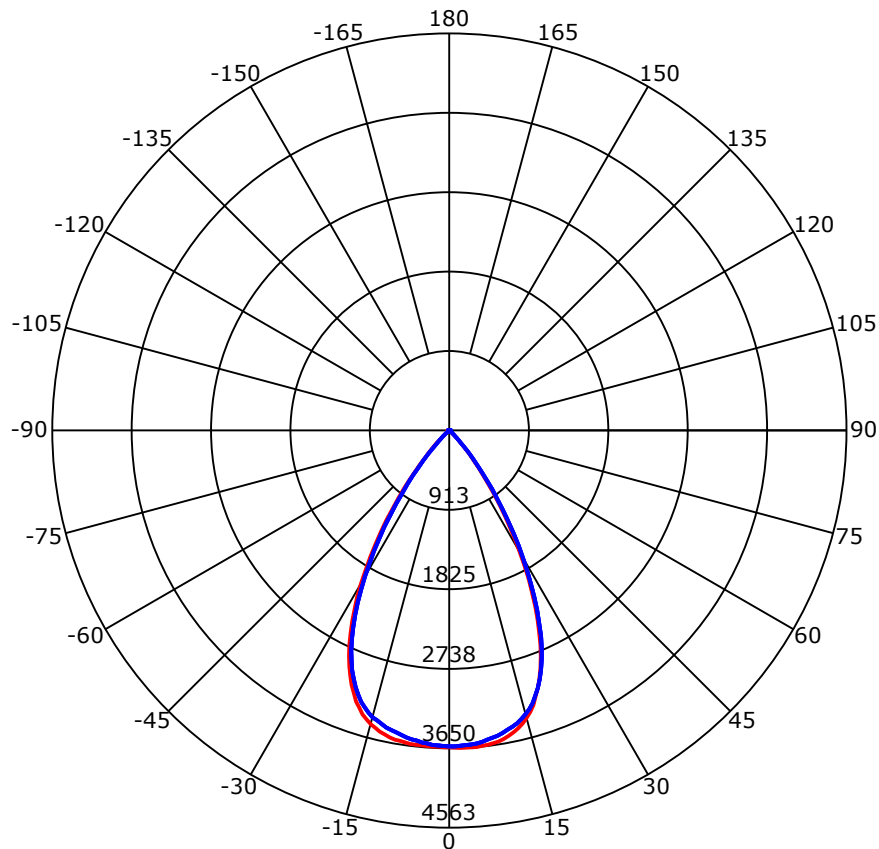
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/6/12 10:18:44

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



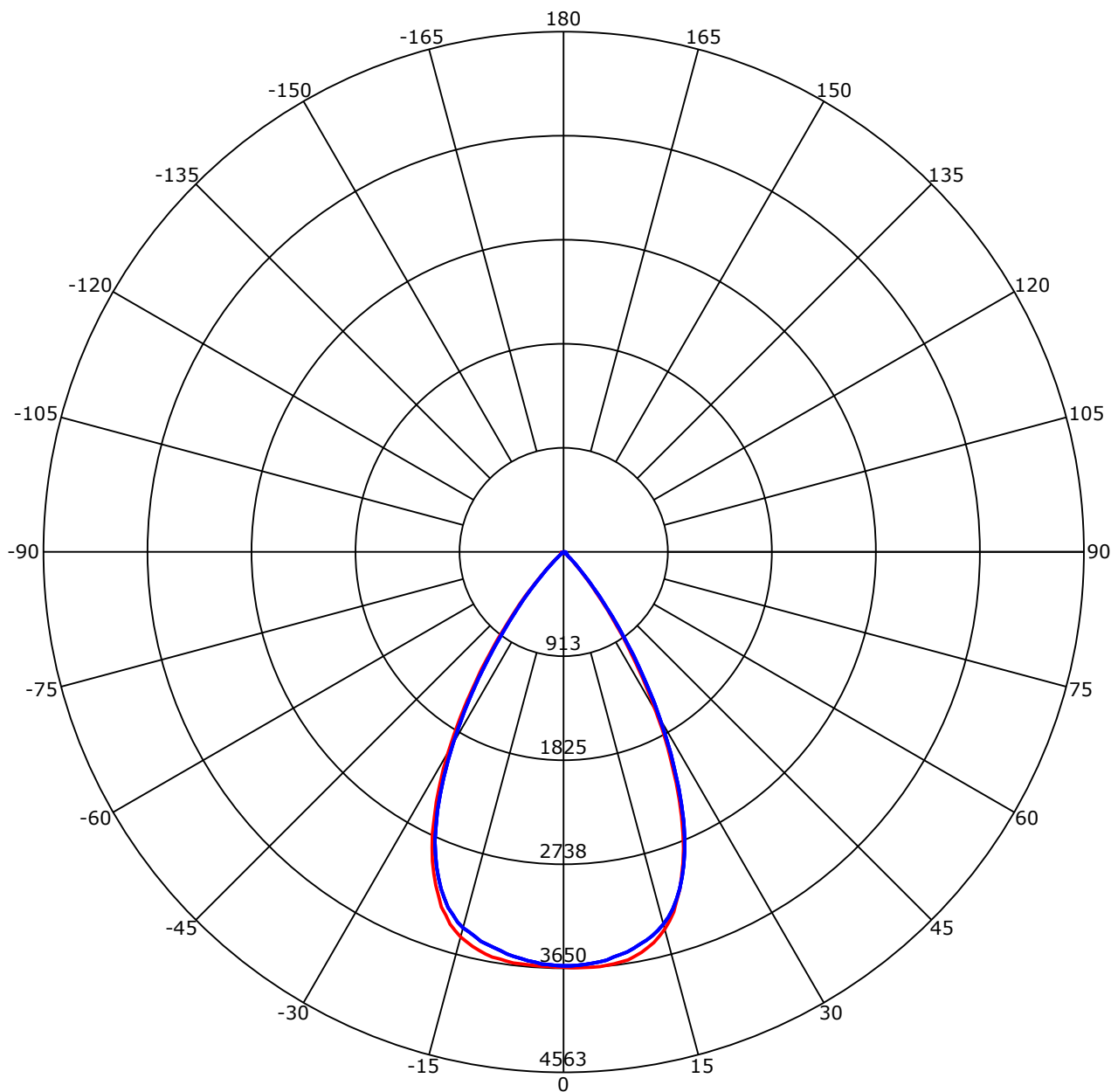
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Test Distance: 6.87 m
Remarks:

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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: 2025/6/12 10:18:44

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

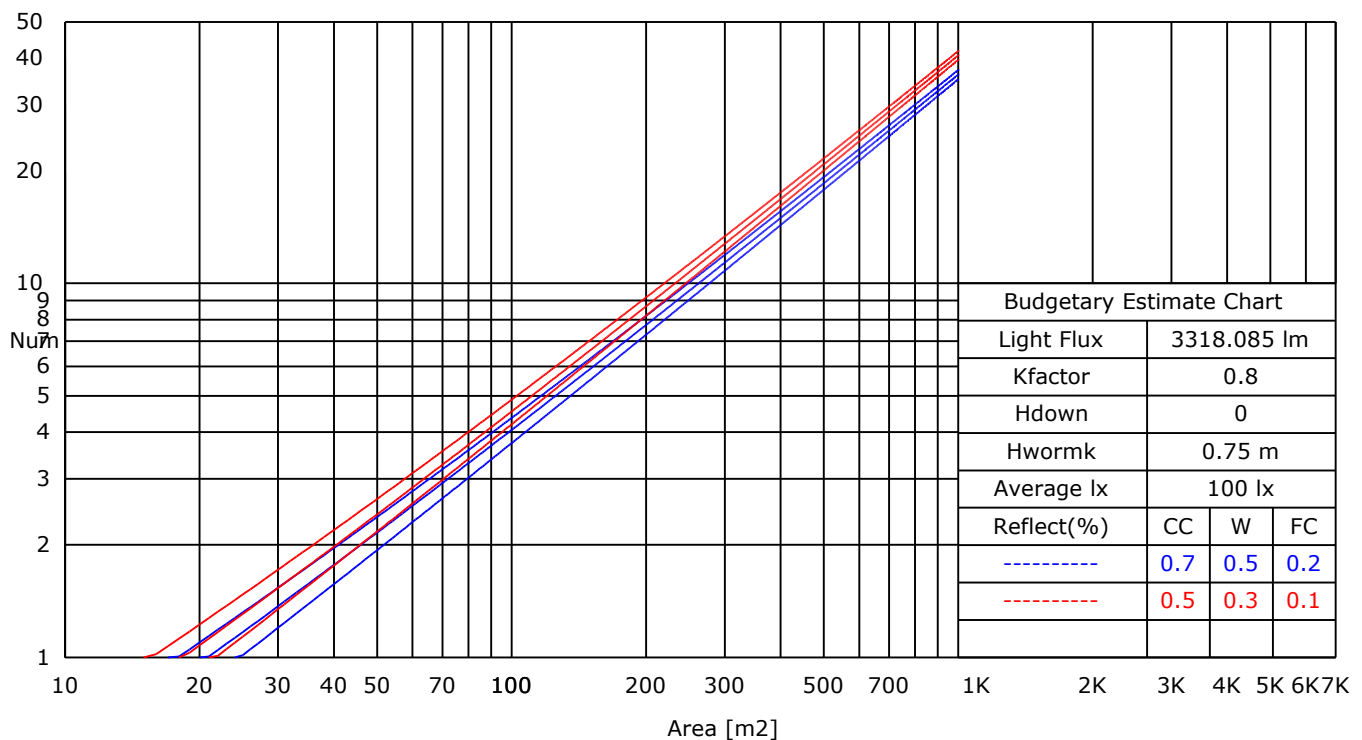
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UTILIZATION FACTORS TABLE

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	1.07	1.05	1.04	1.05	1.04	1.02	1.02	1.00	0.98	0.97	0.95	0.93	0.90	0.88	0.86	0.81
2	1.02	1.00	0.99	1.01	0.99	0.97	0.97	0.95	0.93	0.93	0.90	0.88	0.87	0.85	0.82	0.78
3	0.98	0.96	0.95	0.97	0.95	0.93	0.94	0.91	0.89	0.90	0.87	0.84	0.85	0.82	0.79	0.75
4	0.94	0.93	0.92	0.93	0.91	0.90	0.90	0.87	0.85	0.87	0.83	0.81	0.82	0.79	0.76	0.72
5	0.91	0.89	0.88	0.89	0.87	0.86	0.87	0.84	0.82	0.84	0.80	0.78	0.80	0.76	0.73	0.69
6	0.87	0.86	0.85	0.86	0.84	0.83	0.84	0.81	0.79	0.81	0.78	0.75	0.78	0.74	0.71	0.67
7	0.84	0.83	0.82	0.83	0.81	0.80	0.81	0.78	0.76	0.78	0.75	0.72	0.75	0.71	0.68	0.65
8	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
9	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	0.61
10	0.77	0.75	0.75	0.76	0.74	0.73	0.74	0.71	0.69	0.71	0.68	0.66	0.69	0.65	0.62	0.59

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



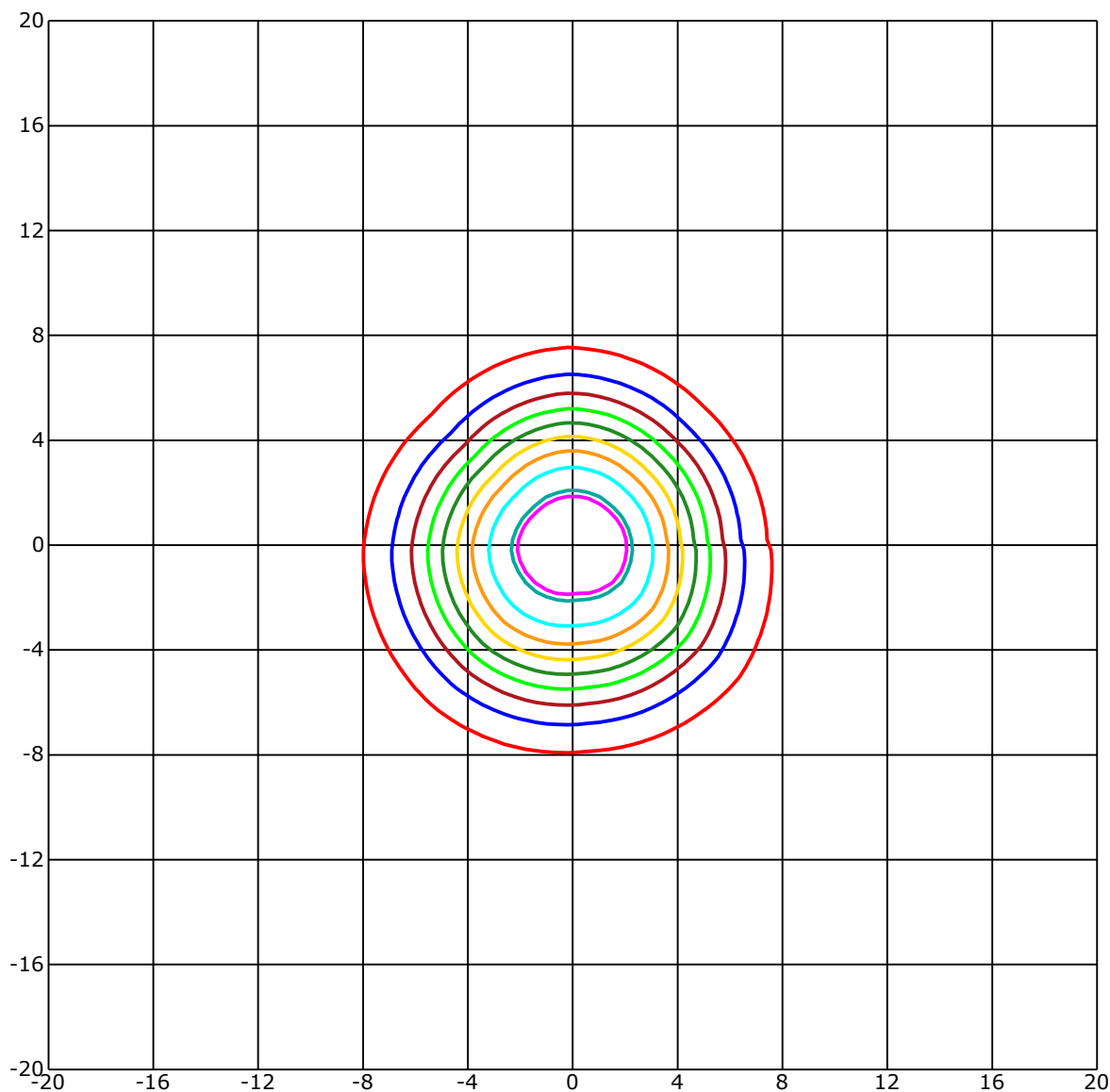
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/6/12 10:18:44

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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ISOLX DIAGRAM



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

33.521(92%Emax)	18.218(50%Emax)
32.793(90%Emax)	14.575(40%Emax)
29.149(80%Emax)	10.931(30%Emax)
25.505(70%Emax)	7.287(20%Emax)
21.862(60%Emax)	3.644(10%Emax)

C Range: 0 - 360 Deg
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Test Date: 2025/6/12 10:18:44

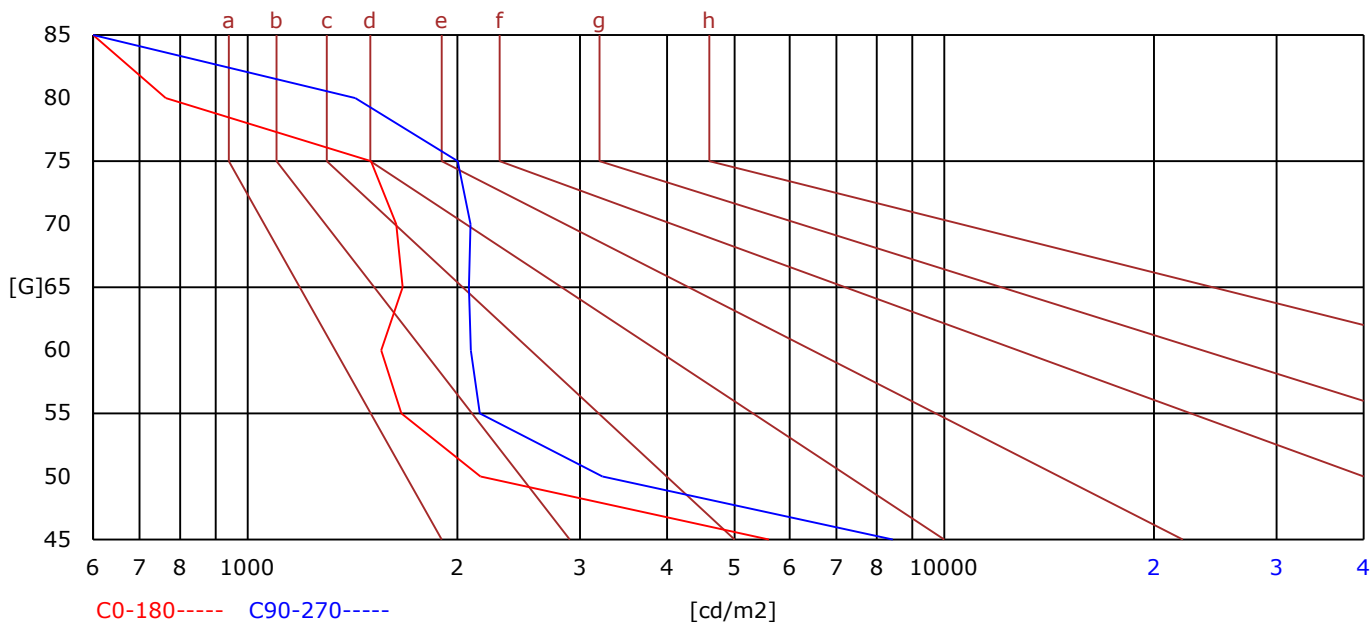
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	5602	2160	1662	1556	1670	1634	1503	763	0
C90	8437	3231	2155	2091	2079	2089	2003	1427	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



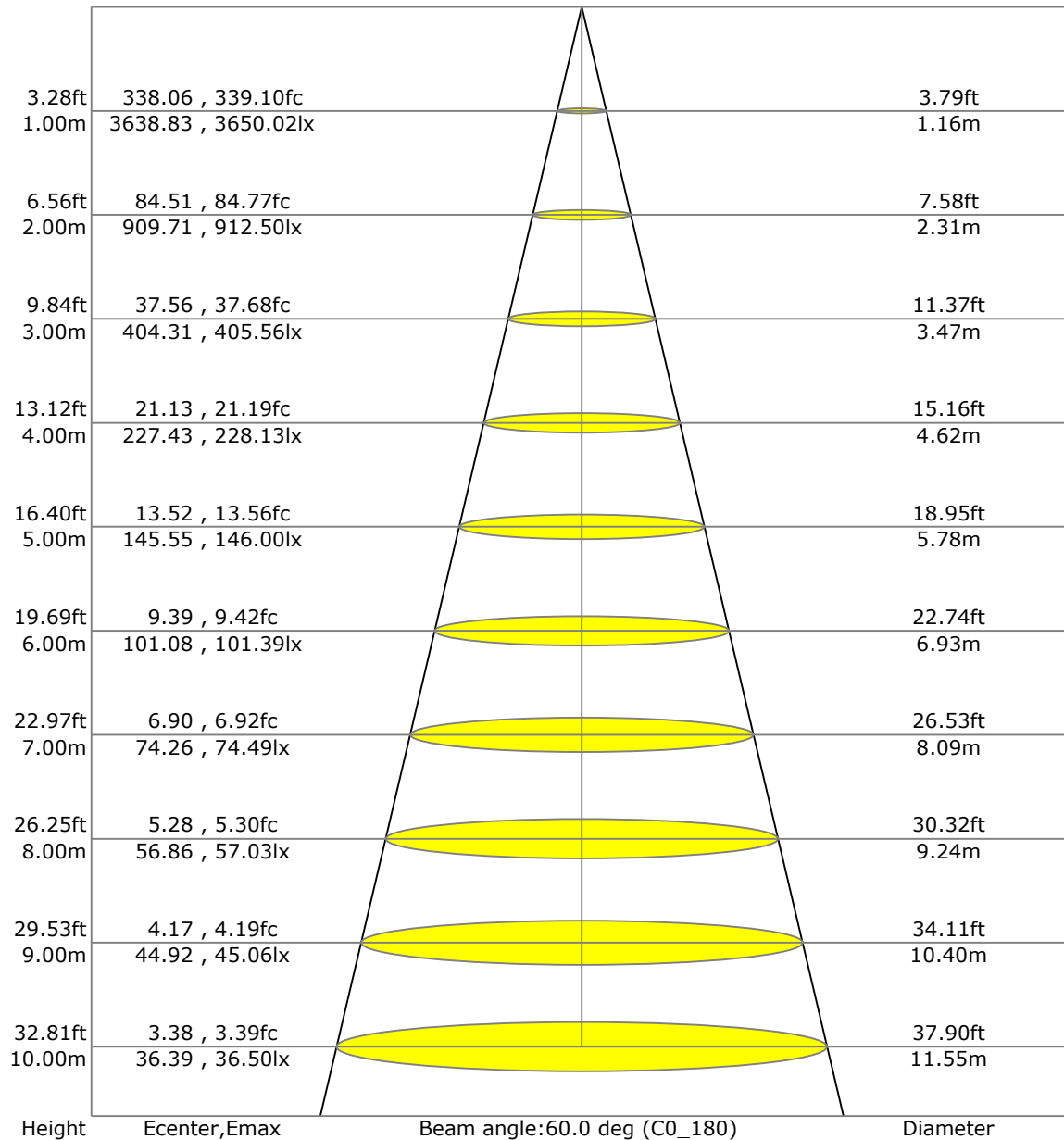
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/6/12 10:18:44

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: 2025/6/12 10:18:44

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: 2025/6/12 10:18:44

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	9.53	9.58	9.73	9.77	10.01	9.55	9.60	9.75	9.79	10.03
3H	9.51	9.56	9.72	9.75	10.00	9.53	9.58	9.73	9.77	10.02
4H	9.50	9.55	9.71	9.74	9.99	9.51	9.56	9.72	9.76	10.01
6H	9.48	9.53	9.69	9.73	9.98	9.50	9.55	9.71	9.75	10.00
8H	9.47	9.52	9.69	9.72	9.97	9.49	9.54	9.71	9.74	9.99
12H	9.46	9.51	9.68	9.71	9.97	9.48	9.53	9.70	9.73	9.99
4H 2H	9.54	9.59	9.75	9.79	10.04	9.60	9.65	9.81	9.84	10.09
3H	9.52	9.57	9.74	9.77	10.03	9.57	9.62	9.80	9.83	10.08
4H	9.50	9.55	9.73	9.76	10.02	9.56	9.61	9.79	9.82	10.08
6H	9.48	9.53	9.72	9.75	10.01	9.53	9.58	9.77	9.80	10.07
8H	9.47	9.51	9.71	9.74	10.00	9.52	9.57	9.76	9.79	10.06
12H	9.45	9.50	9.70	9.73	10.00	9.51	9.55	9.76	9.78	10.05
8H 4H	9.53	9.58	9.74	9.78	10.03	9.60	9.65	9.82	9.86	10.11
6H	9.45	9.50	9.71	9.74	10.01	9.54	9.58	9.79	9.82	10.09
8H	9.44	9.48	9.70	9.73	10.00	9.52	9.56	9.78	9.81	10.08
12H	9.42	9.46	9.69	9.71	9.99	9.51	9.54	9.77	9.80	10.08
12H 4H	9.47	9.51	9.71	9.74	10.01	9.55	9.60	9.80	9.83	10.10
6H	9.44	9.48	9.70	9.72	10.00	9.53	9.57	9.79	9.81	10.09

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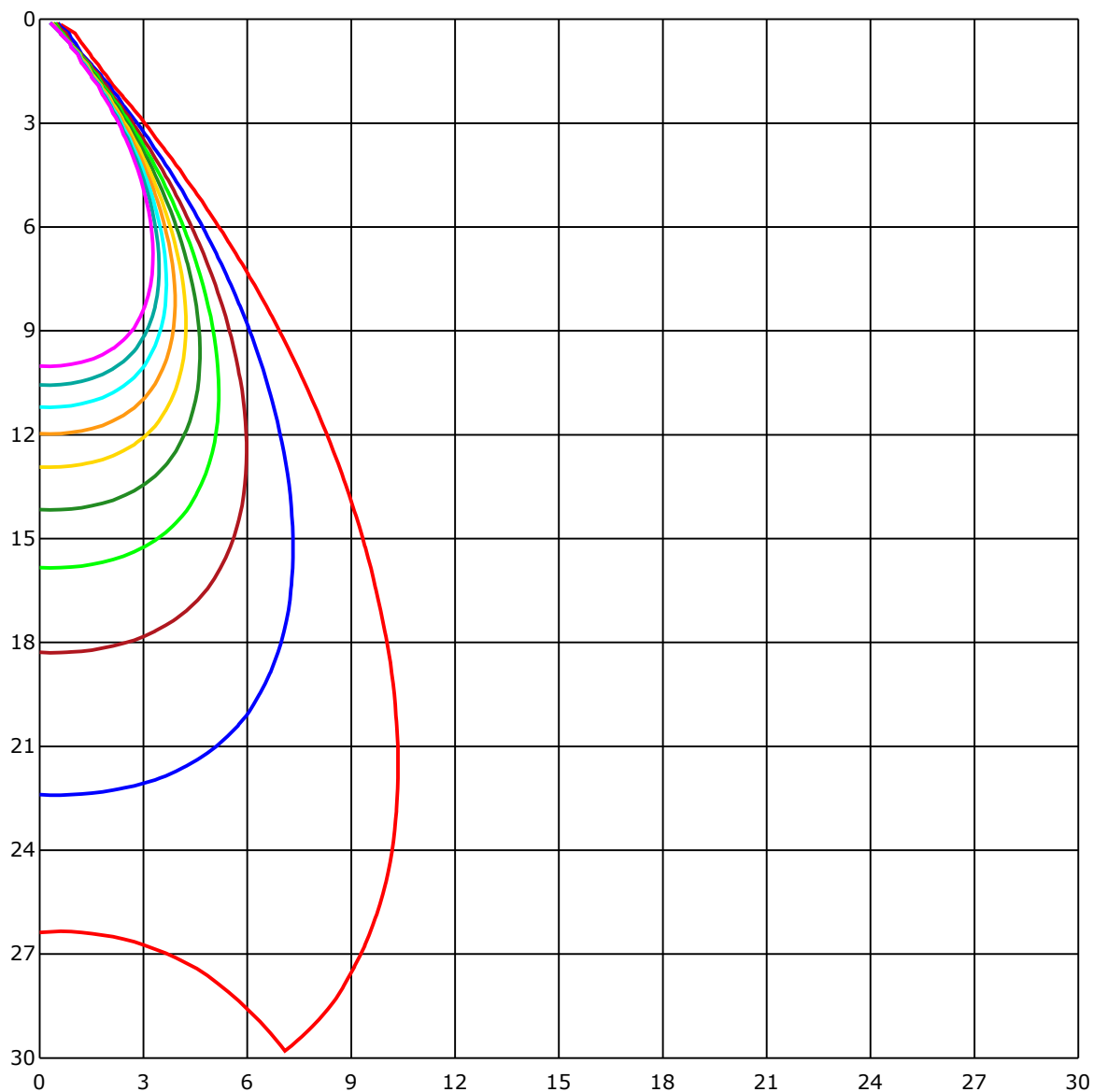
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

Remarks:

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SPACE ISOLX DIAGRAM



36.28	18.14
32.652	14.512
29.024	10.884
25.396	7.256
21.768	3.628

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/6/12 10:18:44

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	3638.83	3624.11	3628.26	3634.87	3638.83	3624.11	3628.26	3634.87	3638.83	
G1	3645.3	3624.53	3628.88	3627.6	3639.54	3625.71	3625.24	3631.61	3645.3	
G2	3648.23	3626.89	3625.01	3626.85	3636.29	3618.3	3621.28	3635.25	3648.23	
G3	3648.56	3632.23	3620.14	3621.14	3636.76	3620.38	3618.3	3633.45	3648.56	
G4	3650.02	3613.63	3615.24	3616.89	3634.63	3611.6	3604.33	3635.11	3650.02	
G5	3649.26	3608.44	3608.3	3608.39	3632.98	3607.87	3597.25	3636.33	3649.26	
G6	3642.94	3597.49	3598.91	3594.56	3630.57	3602.54	3584.27	3630.43	3642.94	
G7	3638.88	3583.28	3578.85	3578.47	3630.48	3600.32	3573.8	3629.58	3638.88	
G8	3629.25	3571.2	3565.3	3572.66	3621.51	3587.34	3560.49	3615.85	3629.25	
G9	3619.72	3559.02	3550.53	3546.89	3610.37	3575.78	3539.11	3604.57	3619.72	
G10	3598.1	3531.6	3528.58	3527.17	3605.37	3564.69	3520.75	3597.54	3598.1	
G11	3574.79	3511.02	3503.38	3504.09	3591.02	3550.58	3505.13	3578.42	3574.79	
G12	3546.47	3485.96	3480.35	3479.59	3570.63	3533.92	3489.55	3560.11	3546.47	
G13	3513.9	3450.05	3453.49	3437.49	3549.63	3518.95	3459.34	3541.18	3513.9	
G14	3471.9	3400.96	3417.15	3399.12	3520.56	3503.28	3434.33	3522.16	3471.9	
G15	3422.34	3350.74	3377.93	3341.54	3493.18	3483.04	3410.59	3487.99	3422.34	
G16	3365.8	3286.6	3330.26	3281.51	3453.82	3449.34	3374.81	3467.75	3365.8	
G17	3300.34	3216.56	3271.22	3212.55	3411.86	3414.7	3324.27	3419.75	3300.34	
G18	3210.0	3130.95	3199.86	3128.54	3347.44	3374.63	3277.59	3364.95	3210.0	
G19	3126.84	3043.45	3125.24	3035.33	3292.31	3324.22	3211.14	3311.67	3126.84	
G20	3024.61	2945.18	3034.34	2939.33	3209.3	3261.12	3142.51	3246.3	3024.61	
G21	2921.39	2834.88	2939.05	2827.38	3130.43	3188.91	3061.71	3172.39	2921.39	
G22	2802.88	2713.16	2833.66	2714.15	3039.72	3110.89	2976.43	3082.1	2802.88	
G23	2679.23	2585.02	2713.96	2583.98	2944.33	3018.24	2875.28	2983.74	2679.23	
G24	2540.18	2450.18	2588.89	2456.6	2835.54	2919.79	2773.1	2877.78	2540.18	
G25	2397.51	2306.84	2443.9	2310.81	2720.9	2808.97	2649.96	2764.32	2397.51	
G26	2251.91	2150.57	2302.27	2160.53	2588.75	2688.52	2522.72	2648.97	2251.91	
G27	2095.59	1997.23	2149.68	2004.41	2459.57	2560.48	2383.25	2511.87	2095.59	
G28	1944.75	1843.89	2004.64	1853.71	2313.78	2429.27	2244.69	2375.28	1944.75	
G29	1785.65	1690.17	1850.97	1698.76	2177.38	2278.71	2090.4	2225.85	1785.65	
G30	1622.02	1527.58	1696.82	1544.66	2023.71	2123.44	1937.43	2077.51	1622.02	
G31	1468.11	1371.73	1542.73	1390.09	1868.29	1970.85	1782.3	1922.14	1468.11	
G32	1317.03	1219.33	1392.5	1241.85	1708.06	1809.15	1634.85	1768.14	1317.03	
G33	1169.68	1076.66	1240.38	1100.68	1555.0	1653.12	1477.64	1614.84	1169.68	
G34	1029.55	934.73	1096.43	965.32	1402.08	1499.16	1329.02	1465.89	1029.55	
G35	893.91	804.38	961.68	838.88	1257.14	1348.13	1179.31	1313.21	893.91	
G36	766.9	682.14	832.46	721.83	1113.23	1197.48	1036.59	1170.58	766.9	

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	650.42	571.79	711.35	612.05	973.96	1055.04	904.2	1029.74	650.42	
G38	545.27	468.67	600.67	512.7	843.6	918.36	779.32	900.71	545.27	
G39	448.18	375.83	498.87	421.04	723.29	791.3	660.57	779.22	448.18	
G40	361.1	293.38	407.45	340.38	611.11	671.66	553.81	666.28	361.1	
G41	283.04	223.05	327.17	269.4	512.89	560.84	456.54	560.98	283.04	
G42	216.87	165.43	256.42	211.39	417.36	460.45	366.96	465.5	216.87	
G43	165.05	121.11	197.85	163.96	332.5	368.7	289.69	377.72	165.05	
G44	124.88	87.83	152.97	126.53	260.9	287.85	226.31	303.38	124.88	
G45	94.39	64.9	117.66	97.74	202.95	222.34	173.02	240.56	94.39	
G46	71.79	48.28	91.7	76.88	156.93	166.84	130.78	189.5	71.79	
G47	55.36	38.23	72.78	60.88	121.58	125.12	97.7	148.58	55.36	
G48	43.52	31.15	58.95	49.27	94.91	94.06	74.15	117.24	43.52	
G49	35.54	26.19	48.75	40.4	75.47	72.45	56.97	92.88	35.54	
G50	29.83	22.75	41.77	34.03	61.69	57.77	44.41	75.56	29.83	
G51	25.68	20.34	36.72	29.4	51.87	47.95	35.87	62.77	25.68	
G52	22.75	18.6	32.99	26.1	44.37	41.11	29.92	53.0	22.75	
G53	20.58	17.27	30.21	23.46	39.55	36.29	25.82	44.98	20.58	
G54	18.78	16.19	27.99	21.57	35.35	32.94	23.17	39.17	18.78	
G55	17.7	15.62	26.43	20.25	32.33	30.58	21.1	34.97	17.7	
G56	16.66	14.82	25.01	19.35	30.11	28.6	19.63	31.81	16.66	
G57	16.05	14.21	23.74	18.6	28.37	27.37	18.74	29.12	16.05	
G58	15.2	13.55	22.94	18.08	27.04	26.01	18.12	27.28	15.2	
G59	14.82	13.17	22.09	17.46	26.01	25.01	17.65	25.53	14.82	
G60	14.49	12.74	21.19	17.13	25.01	23.98	16.94	24.54	14.49	
G61	13.97	12.6	20.72	16.66	24.26	23.27	16.33	23.5	13.97	
G62	13.55	12.27	20.2	16.28	23.65	22.42	16.0	22.75	13.55	
G63	13.17	11.94	19.59	15.67	22.94	22.04	15.67	21.95	13.17	
G64	12.65	11.75	18.88	15.06	22.18	21.47	15.39	21.29	12.65	
G65	12.08	11.56	18.31	14.4	21.57	21.05	14.96	20.44	12.08	
G66	11.61	10.86	17.42	13.78	20.96	20.53	14.44	19.63	11.61	
G67	11.0	10.38	16.61	13.26	20.15	19.92	13.92	18.69	11.0	
G68	10.52	10.01	16.0	12.7	19.59	19.35	13.36	18.03	10.52	
G69	10.05	9.77	15.34	12.13	18.83	18.78	12.88	17.23	10.05	
G70	9.49	9.16	14.87	11.7	18.12	18.41	12.22	16.38	9.49	
G71	9.11	8.73	13.97	11.04	17.7	17.46	11.56	15.57	9.11	
G72	8.45	8.21	13.36	10.52	16.71	16.71	11.23	14.96	8.45	
G73	8.02	7.74	12.7	9.82	16.05	16.14	10.81	14.21	8.02	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/6/12 10:18:44

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
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/6/12 10:18:44

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