

Report No.:

Test Time: 2025/6/14 10:00:47

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP101CT095-45°-28W
Lamp Type:
Luminous Width: 86 mm
Luminous Length: 86 mm
Luminous Height: 95 mm

Voltage(V): 219.60 V
Current(A): 0.1270 A
Power(W): 27.40 W
Power Factor: 0.9750
Lamp Luminous Flux: 2582.54

Photometric Results

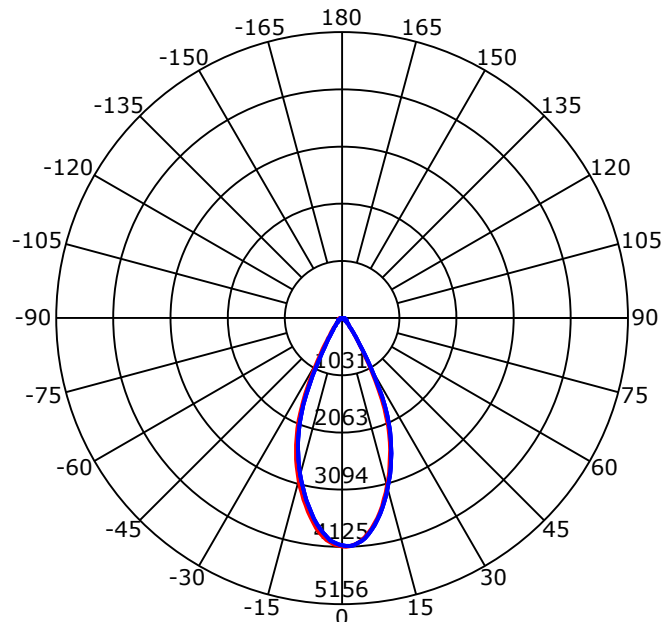
CIE Class: Direct
Luminaire Luminous Flux: 2582.543 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 94.25 lm/W
Beam Angle(50%) C0-180,C90-270: 46.0,46.0
Field Angle(10%) C0-180,C90-270: 71.3,69.9
S/MH C0-180,C90-270: 0.728,0.728

Max. Intensity: 4125.06 cd
Max.Intensity Angle: C=0 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 4120.15 cd
Effective Luminous Flux: 2176.85 lm
ERP(ϕ use)(120deg): 2473.97 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 46.0 deg,46.0 deg

C0-180 — C90-270

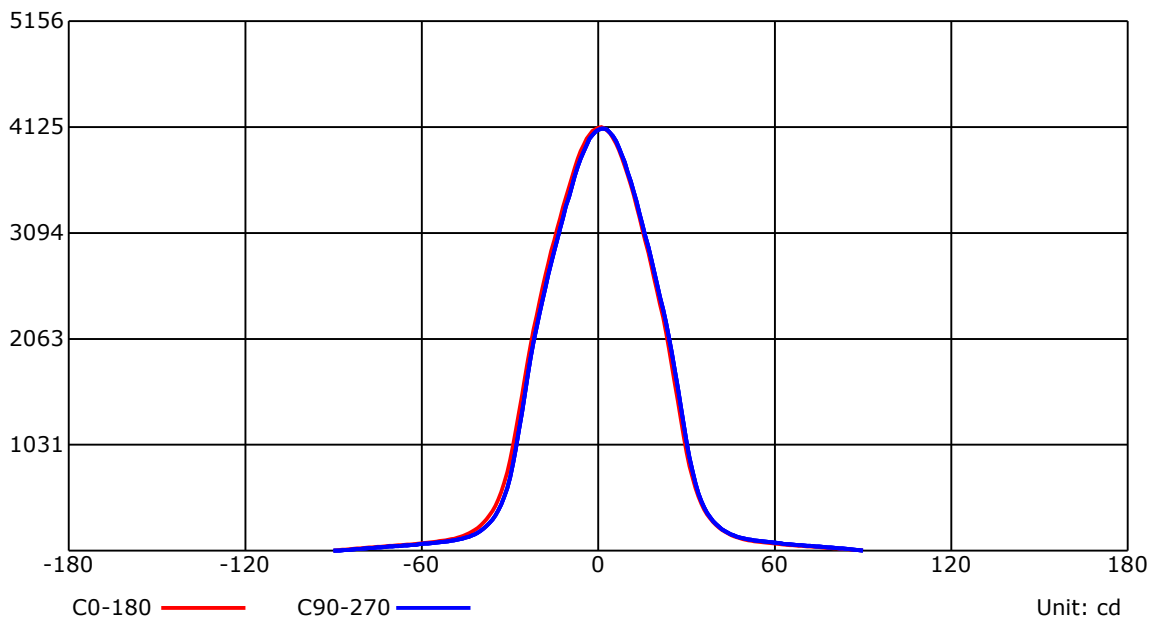
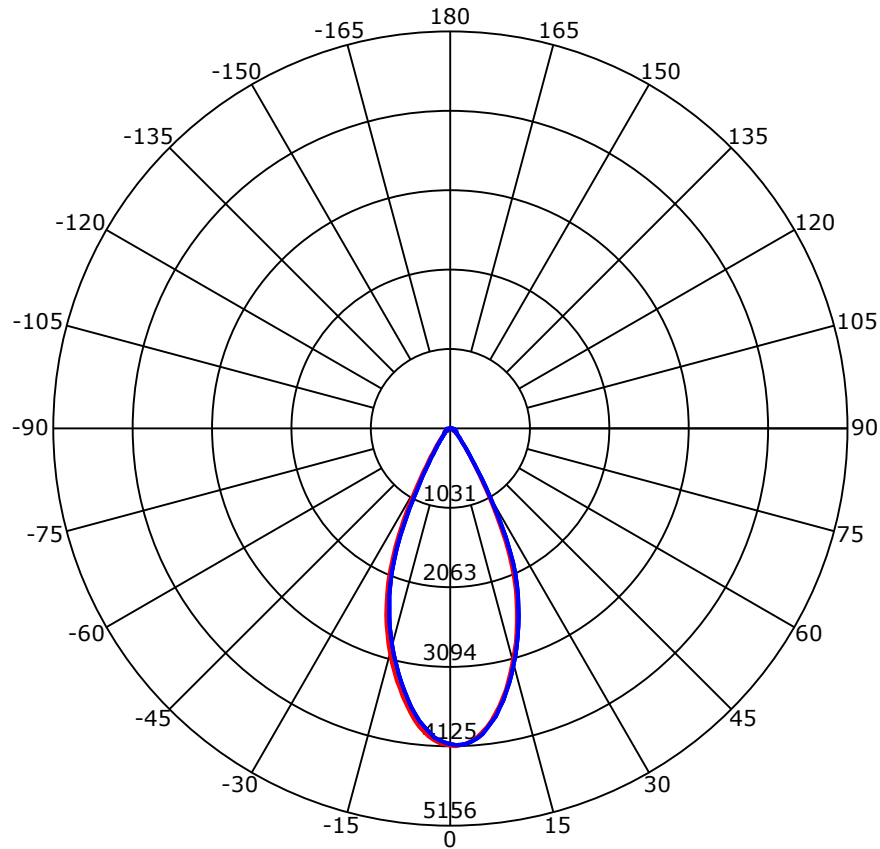
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/6/14 10:00:47

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: 2025/6/14 10:00:47

Luminous Intensity Distribution Curve



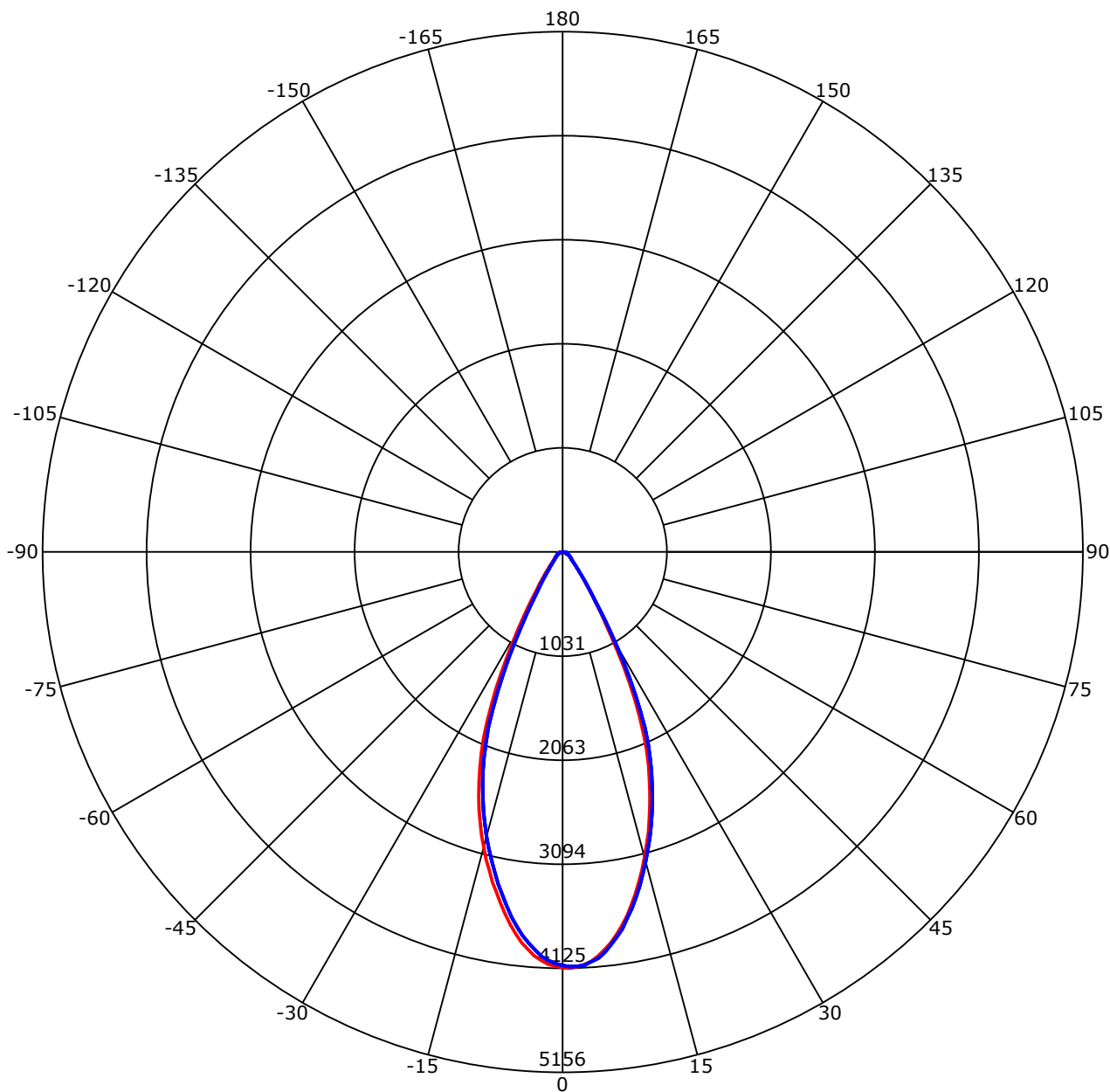
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/6/14 10:00:47

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



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: 2025/6/14 10:00:47

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

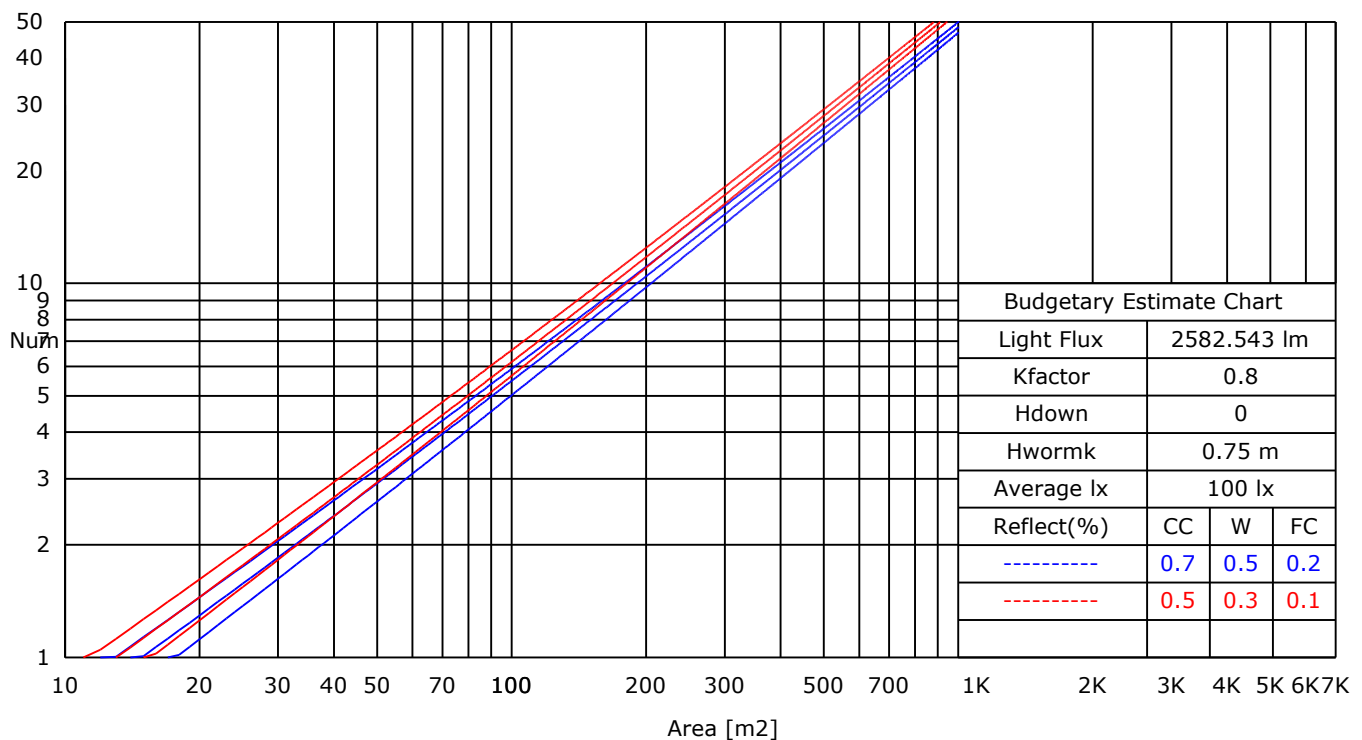
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UTILIZATION FACTORS TABLE

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	1.03	1.01	0.99	1.01	0.99	0.97	0.98	0.95	0.93	0.93	0.91	0.88	0.87	0.84	0.82	0.77
2	0.97	0.95	0.94	0.96	0.94	0.92	0.93	0.91	0.88	0.89	0.86	0.84	0.84	0.81	0.78	0.73
3	0.93	0.91	0.90	0.92	0.90	0.88	0.89	0.86	0.84	0.86	0.83	0.80	0.81	0.78	0.75	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	0.68
5	0.86	0.84	0.83	0.85	0.83	0.81	0.83	0.80	0.77	0.80	0.76	0.73	0.76	0.72	0.69	0.65
6	0.83	0.81	0.80	0.82	0.80	0.78	0.80	0.77	0.75	0.77	0.74	0.71	0.74	0.70	0.67	0.63
7	0.80	0.79	0.78	0.79	0.77	0.76	0.77	0.74	0.72	0.75	0.71	0.68	0.72	0.68	0.65	0.61
8	0.78	0.76	0.75	0.77	0.75	0.74	0.75	0.72	0.70	0.73	0.69	0.66	0.70	0.66	0.63	0.59
9	0.75	0.74	0.73	0.75	0.73	0.72	0.73	0.70	0.68	0.71	0.67	0.65	0.68	0.64	0.61	0.58
10	0.73	0.72	0.71	0.73	0.71	0.70	0.71	0.68	0.66	0.69	0.65	0.63	0.67	0.62	0.59	0.56

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



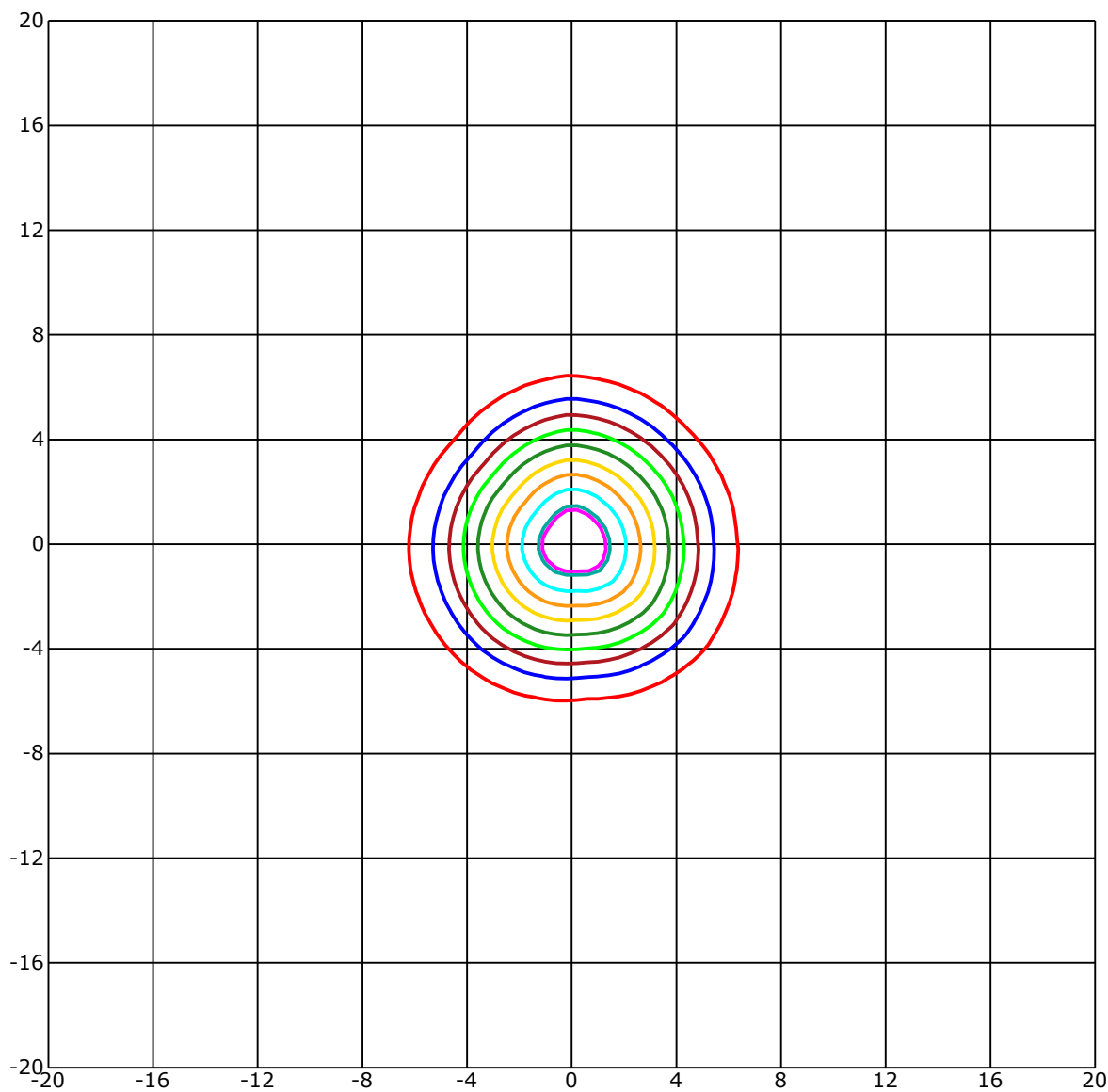
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/6/14 10:00:47

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)

37.933(92%Emax)	20.616(50%Emax)
37.109(90%Emax)	16.493(40%Emax)
32.985(80%Emax)	12.37(30%Emax)
28.862(70%Emax)	8.246(20%Emax)
24.739(60%Emax)	4.123(10%Emax)

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/6/14 10:00:47

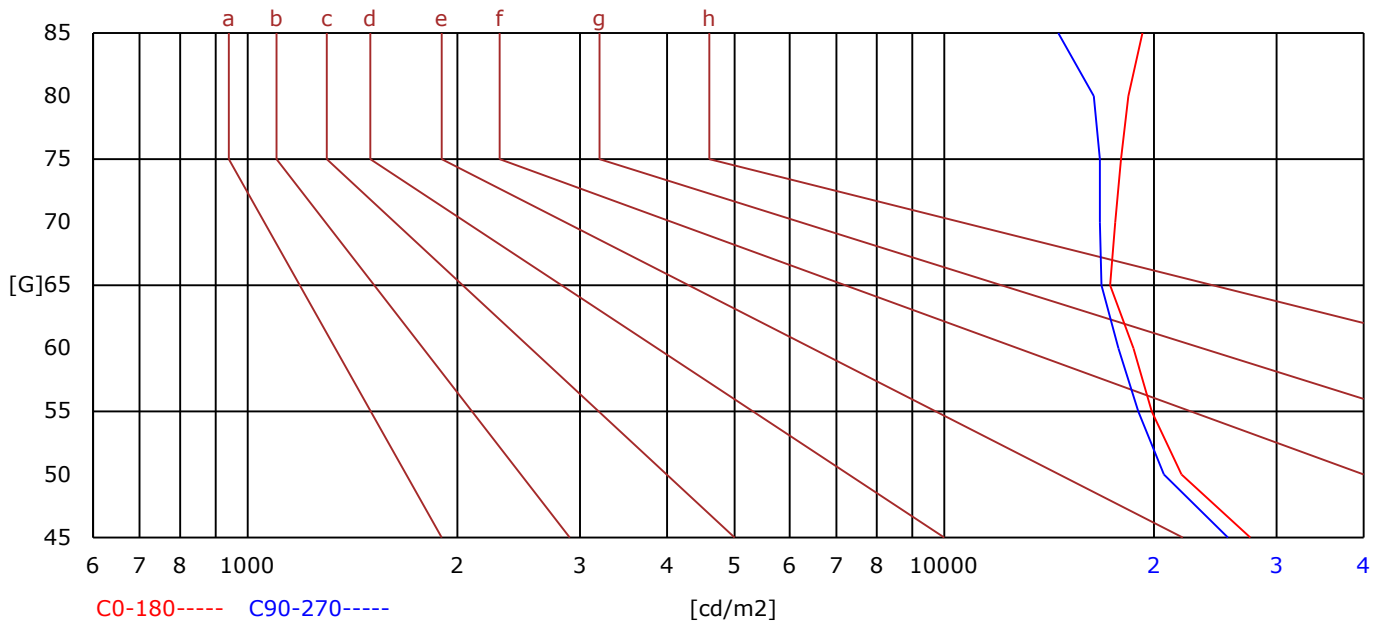
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

Report No.:

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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	27498	21901	19848	18685	17304	17594	17925	18375	19256
C90	25540	20660	18991	17791	16806	16718	16717	16390	14570
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



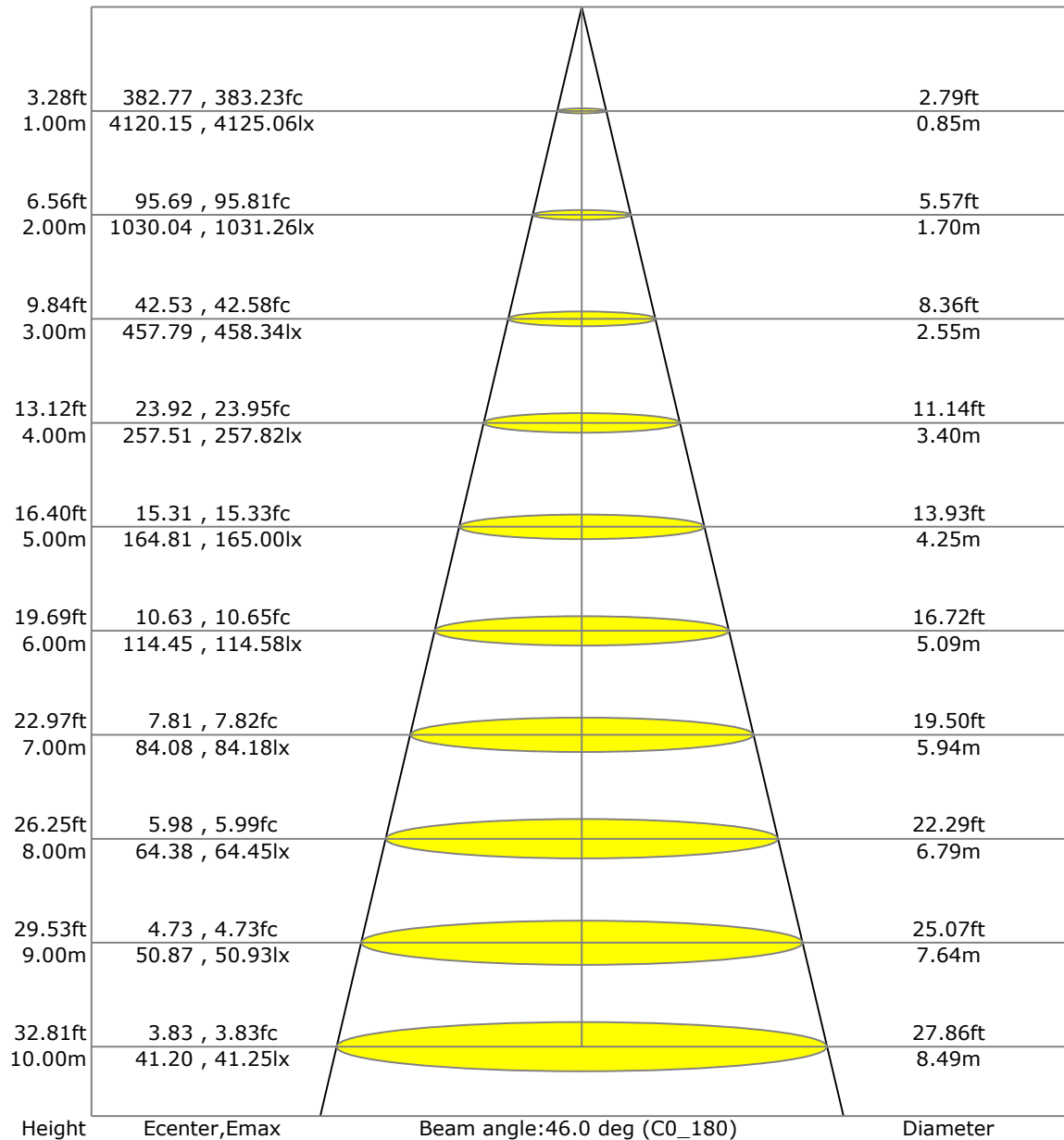
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/6/14 10:00:47

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: 2025/6/14 10:00:47

LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/6/14 10:00:47

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

UGR(Unified Glare Rating) TABLE

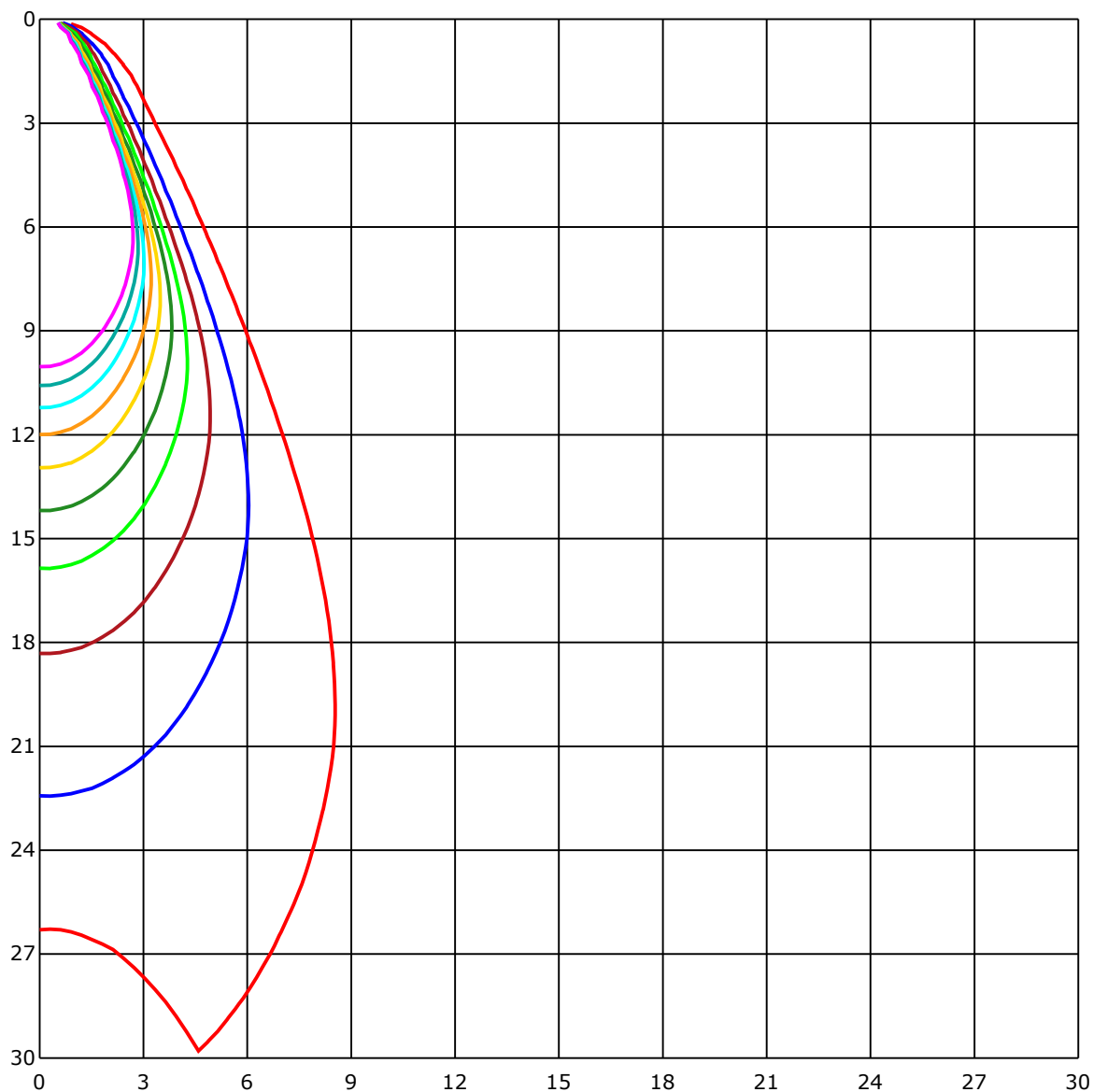
RHOCC	70	70	50	50	30	70	70	50	50	30
RHOW	50	30	50	30	30	50	30	50	30	30
RHOF	20	20	20	20	20	20	20	20	20	20
Room Size X Y	Viewed Endwise					Viewed Crosswise				
2H 2H	12.40	12.46	12.60	12.64	12.89	12.51	12.56	12.71	12.75	12.99
3H	12.50	12.55	12.70	12.74	12.99	12.59	12.64	12.79	12.83	13.08
4H	12.51	12.57	12.72	12.76	13.01	12.60	12.65	12.81	12.85	13.10
6H	12.50	12.56	12.72	12.76	13.01	12.59	12.64	12.80	12.84	13.09
8H	12.50	12.55	12.71	12.75	13.01	12.58	12.63	12.80	12.84	13.09
12H	12.49	12.54	12.71	12.75	13.00	12.57	12.62	12.79	12.83	13.08
4H 2H	13.83	13.88	14.04	14.08	14.33	14.08	14.14	14.29	14.33	14.58
3H	14.11	14.16	14.33	14.37	14.62	14.34	14.40	14.57	14.60	14.86
4H	14.19	14.24	14.42	14.45	14.71	14.41	14.47	14.64	14.68	14.94
6H	14.22	14.27	14.46	14.49	14.76	14.44	14.49	14.67	14.71	14.97
8H	14.22	14.27	14.46	14.50	14.76	14.43	14.48	14.68	14.71	14.98
12H	14.21	14.26	14.46	14.49	14.76	14.42	14.47	14.67	14.70	14.97
8H 4H	14.35	14.40	14.57	14.60	14.86	14.70	14.75	14.92	14.96	15.21
6H	15.04	15.09	15.30	15.33	15.60	15.37	15.42	15.62	15.65	15.93
8H	15.07	15.12	15.34	15.36	15.64	15.39	15.44	15.65	15.68	15.96
12H	15.08	15.13	15.35	15.38	15.66	15.40	15.44	15.67	15.69	15.97
12H 4H	15.12	15.17	15.37	15.41	15.67	15.52	15.57	15.77	15.80	16.07
6H	15.28	15.33	15.54	15.57	15.85	15.67	15.72	15.93	15.96	16.24

Remarks:

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SPACE ISOLX DIAGRAM



Unit of illumination:lx



C Range: 0 - 360 Deg
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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.:

Test Time: 2025/6/14 10:00:47

LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	4120.15	4105.9	4097.78	4098.91	4120.15	4105.9	4097.78	4098.91	4120.15	
G1	4125.06	4103.96	4109.25	4085.13	4102.73	4088.81	4077.39	4112.08	4125.06	
G2	4114.25	4098.58	4108.3	4053.18	4088.95	4076.82	4048.69	4103.82	4114.25	
G3	4090.32	4075.59	4100.0	4017.45	4051.48	4031.32	4014.29	4097.26	4090.32	
G4	4066.67	4041.57	4068.14	3966.57	4012.21	3985.5	3950.99	4065.12	4066.67	
G5	4017.92	4000.69	4039.21	3907.2	3952.6	3929.66	3888.22	4030.95	4017.92	
G6	3961.76	3940.42	3988.47	3836.49	3892.99	3866.13	3817.76	3982.19	3961.76	
G7	3901.3	3867.55	3921.45	3768.15	3816.15	3783.68	3737.85	3920.79	3901.3	
G8	3827.39	3800.72	3851.03	3674.85	3730.16	3704.67	3651.39	3856.6	3827.39	
G9	3746.49	3711.19	3781.7	3589.66	3634.3	3611.88	3549.96	3786.42	3746.49	
G10	3661.87	3624.16	3685.8	3490.97	3542.13	3518.95	3446.84	3698.87	3661.87	
G11	3560.68	3524.0	3596.73	3385.95	3440.23	3413.42	3354.0	3614.67	3560.68	
G12	3464.54	3424.56	3495.87	3276.17	3345.84	3317.94	3240.73	3518.77	3464.54	
G13	3352.16	3315.82	3398.13	3173.05	3237.75	3207.41	3136.0	3418.94	3352.16	
G14	3245.87	3206.6	3284.62	3057.13	3138.26	3104.85	3028.86	3314.5	3245.87	
G15	3127.83	3097.91	3176.35	2943.25	3025.42	2995.59	2921.91	3207.45	3127.83	
G16	3016.31	2981.99	3065.2	2823.93	2917.76	2889.16	2800.76	3096.97	3016.31	
G17	2901.38	2865.42	2956.41	2707.03	2797.6	2780.46	2686.78	2992.09	2901.38	
G18	2774.42	2746.34	2836.35	2577.09	2682.91	2661.81	2559.35	2872.21	2774.42	
G19	2647.56	2618.3	2716.98	2450.18	2559.82	2541.51	2437.86	2749.08	2647.56	
G20	2526.03	2502.29	2595.83	2314.44	2428.38	2421.11	2314.11	2626.51	2526.03	
G21	2397.23	2369.47	2470.24	2179.13	2292.83	2296.65	2179.84	2507.34	2397.23	
G22	2269.94	2242.75	2347.86	2028.0	2153.88	2165.49	2034.0	2374.9	2269.94	
G23	2124.05	2101.21	2219.15	1871.92	2006.91	2015.78	1880.14	2237.56	2124.05	
G24	1967.07	1956.74	2078.46	1700.69	1848.94	1863.71	1709.09	2089.31	1967.07	
G25	1800.85	1793.39	1928.94	1529.27	1684.93	1690.83	1524.51	1942.48	1800.85	
G26	1632.78	1622.06	1761.62	1355.83	1511.43	1516.72	1343.89	1769.98	1632.78	
G27	1454.56	1439.18	1585.39	1186.06	1339.35	1338.55	1166.28	1595.77	1454.56	
G28	1282.39	1263.98	1407.41	1027.52	1178.74	1164.11	999.91	1419.16	1282.39	
G29	1112.95	1088.69	1232.31	886.88	1027.24	1001.0	848.22	1246.9	1112.95	
G30	957.81	928.36	1062.26	755.95	887.58	855.49	716.02	1081.38	957.81	
G31	822.83	787.81	907.03	649.19	765.11	729.14	608.46	926.9	822.83	
G32	707.39	665.62	769.92	556.92	659.2	624.6	521.1	793.14	707.39	
G33	608.6	567.26	655.05	483.3	571.37	540.4	451.2	682.56	608.6	
G34	527.28	489.67	559.85	421.14	498.64	468.57	393.34	585.71	527.28	
G35	457.76	425.01	483.96	369.79	437.42	409.72	344.25	505.95	457.76	
G36	400.28	371.49	420.9	325.8	386.64	361.15	302.67	441.06	400.28	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/6/14 10:00:47

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: 2025/6/14 10:00:47

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	351.66	326.41	368.7	288.85	343.36	320.37	269.35	387.53	351.66	
G38	312.11	288.85	325.56	256.66	306.97	286.01	239.95	342.37	312.11	
G39	277.94	256.23	288.8	231.17	273.84	256.23	214.93	303.48	277.94	
G40	248.96	229.94	258.54	208.14	247.26	230.56	194.03	271.19	248.96	
G41	223.9	206.58	233.39	188.88	223.38	208.52	176.23	243.96	223.9	
G42	202.05	187.18	210.59	171.66	202.99	189.59	160.75	220.13	202.05	
G43	183.45	170.66	191.24	157.21	184.63	173.17	147.73	200.68	183.45	
G44	168.12	156.27	174.58	144.19	169.39	159.15	136.45	183.22	168.12	
G45	154.1	143.81	160.99	133.57	155.75	147.3	127.15	167.6	154.1	
G46	141.78	133.38	149.0	124.13	144.09	136.82	118.37	154.85	141.78	
G47	130.88	124.22	138.81	116.15	133.94	127.86	111.53	143.38	130.88	
G48	122.05	116.86	129.6	109.31	125.12	120.35	105.58	133.71	122.05	
G49	113.84	109.87	122.48	103.13	117.71	114.03	100.67	125.5	113.84	
G50	107.66	104.12	116.06	98.22	111.57	108.51	96.23	118.61	107.66	
G51	101.76	99.26	110.49	94.11	105.96	103.83	92.55	112.42	101.76	
G52	96.9	94.96	105.86	89.96	101.38	99.44	88.73	106.9	96.9	
G53	92.51	91.33	101.9	86.94	97.04	95.57	85.76	102.23	92.51	
G54	88.54	87.55	97.84	83.54	93.12	91.8	82.31	97.89	88.54	
G55	84.95	84.2	94.21	80.57	89.34	88.31	79.34	94.21	84.95	
G56	81.65	80.99	90.67	77.45	86.32	85.1	76.36	90.57	81.65	
G57	78.58	78.11	87.46	74.43	82.83	81.84	73.67	87.27	78.58	
G58	75.75	75.09	84.25	71.55	79.67	78.91	70.65	83.96	75.75	
G59	72.73	71.93	80.99	68.77	76.46	75.66	67.92	80.52	72.73	
G60	69.57	69.1	77.73	65.79	73.44	72.54	64.8	77.45	69.57	
G61	66.45	66.08	74.9	62.68	70.46	69.57	61.78	74.52	66.45	
G62	63.43	62.87	71.41	59.0	66.78	66.08	58.19	71.03	63.43	
G63	59.75	59.14	67.77	56.12	63.29	62.68	55.93	67.4	59.75	
G64	56.78	56.07	64.09	54.32	61.26	60.36	53.99	63.76	56.78	
G65	54.75	54.09	61.64	52.53	58.95	58.43	52.2	61.59	54.75	
G66	52.91	52.58	59.37	50.26	57.11	56.16	50.03	59.42	52.91	
G67	50.93	50.41	57.39	48.24	54.89	54.23	47.76	57.39	50.93	
G68	48.61	48.24	55.17	46.25	52.86	52.11	45.78	55.22	48.61	
G69	46.82	46.35	53.29	44.22	50.74	50.03	43.85	53.05	46.82	
G70	44.98	44.51	50.93	42.29	48.19	47.76	41.77	50.78	44.98	
G71	42.76	42.52	48.61	40.35	46.06	45.5	39.83	48.24	42.76	
G72	40.78	40.73	46.49	38.32	43.75	43.23	37.8	46.11	40.78	
G73	38.75	38.47	44.6	36.2	41.77	41.11	35.73	43.99	38.75	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/6/14 10:00:47

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: 2025/6/14 10:00:47

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