

Report No.:

Test Time: 2025/5/13 10:27:24

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP101SCT095H135-15°-40W
Lamp Type:
Luminous Width: 86 mm
Luminous Length: 86 mm
Luminous Height: 100 mm

Voltage(V): 219.80 V
Current(A): 0.1850 A
Power(W): 39.62 W
Power Factor: 0.9730
Lamp Luminous Flux: 3884.60

Photometric Results

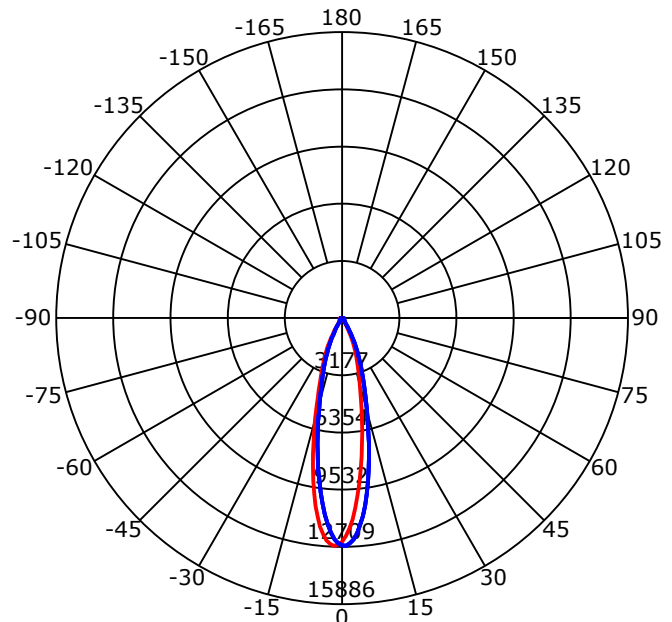
CIE Class: Direct
Luminaire Luminous Flux: 3884.599 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 98.04 lm/W
Beam Angle(50%) C0-180,C90-270: 24.2,25.6
Field Angle(10%) C0-180,C90-270: 54.1,54.9
S/MH C0-180,C90-270: 0.425,0.462

Max. Intensity: 12708.85 cd
Max.Intensity Angle: C=225 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 12416.32 cd
Effective Luminous Flux: 3117.70 lm
ERP(ϕ use)(120deg): 3778.75 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 24.2 deg,25.6 deg

C0-180 — C90-270 —

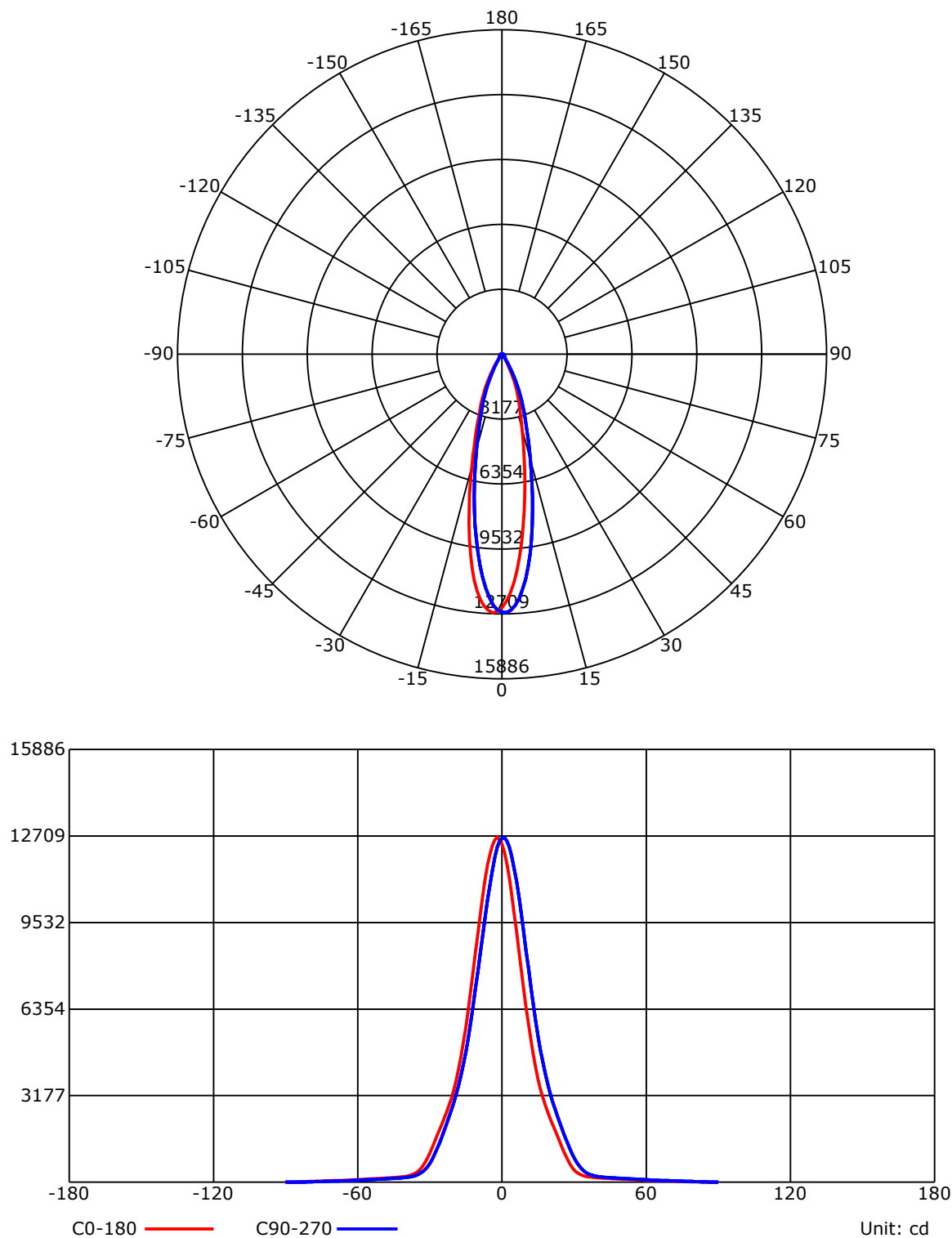
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/5/13 10:27:24

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: 2025/5/13 10:27:24

Luminous Intensity Distribution Curve



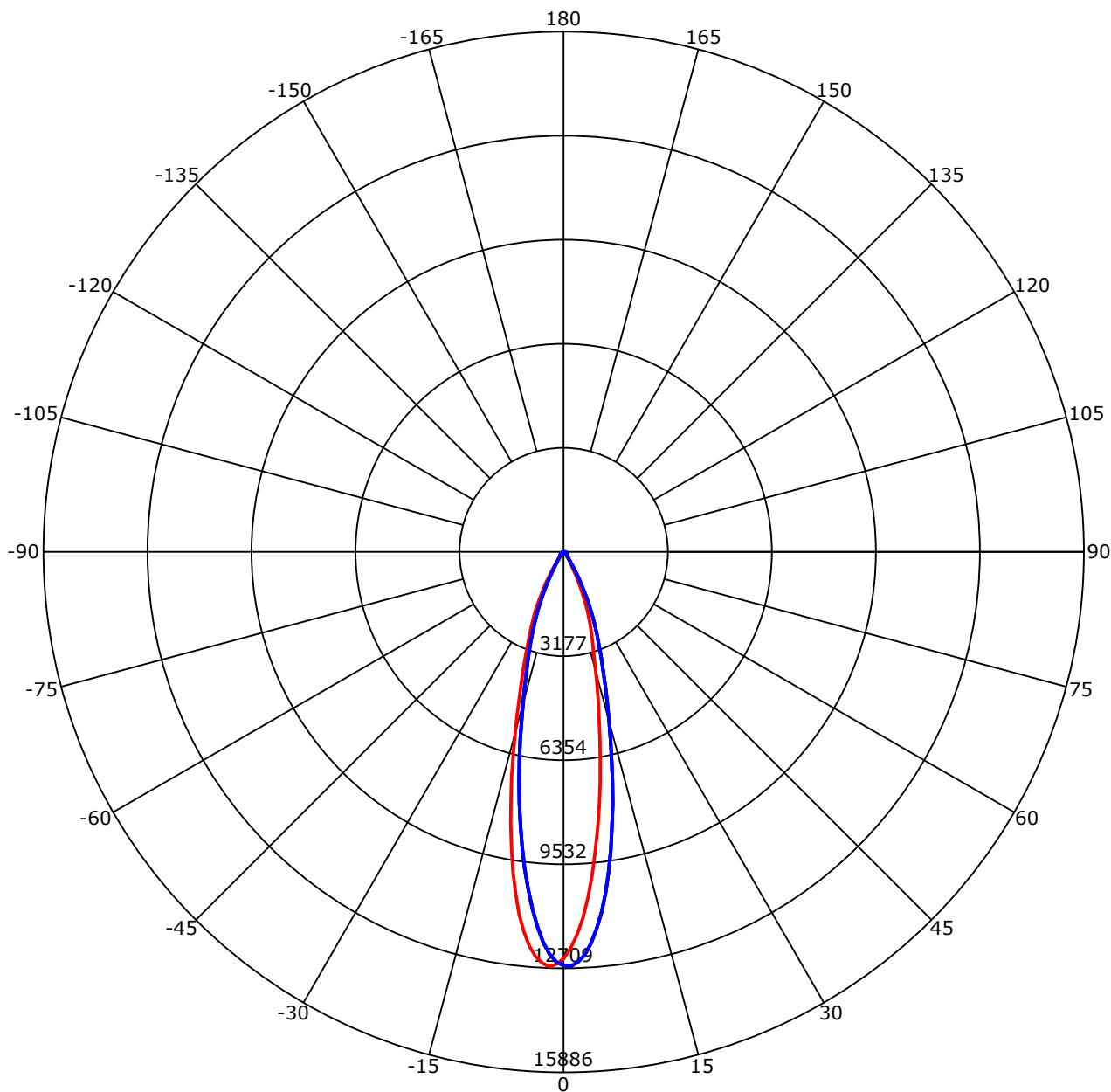
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/5/13 10:27:24

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: 2025/5/13 10:27:24

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

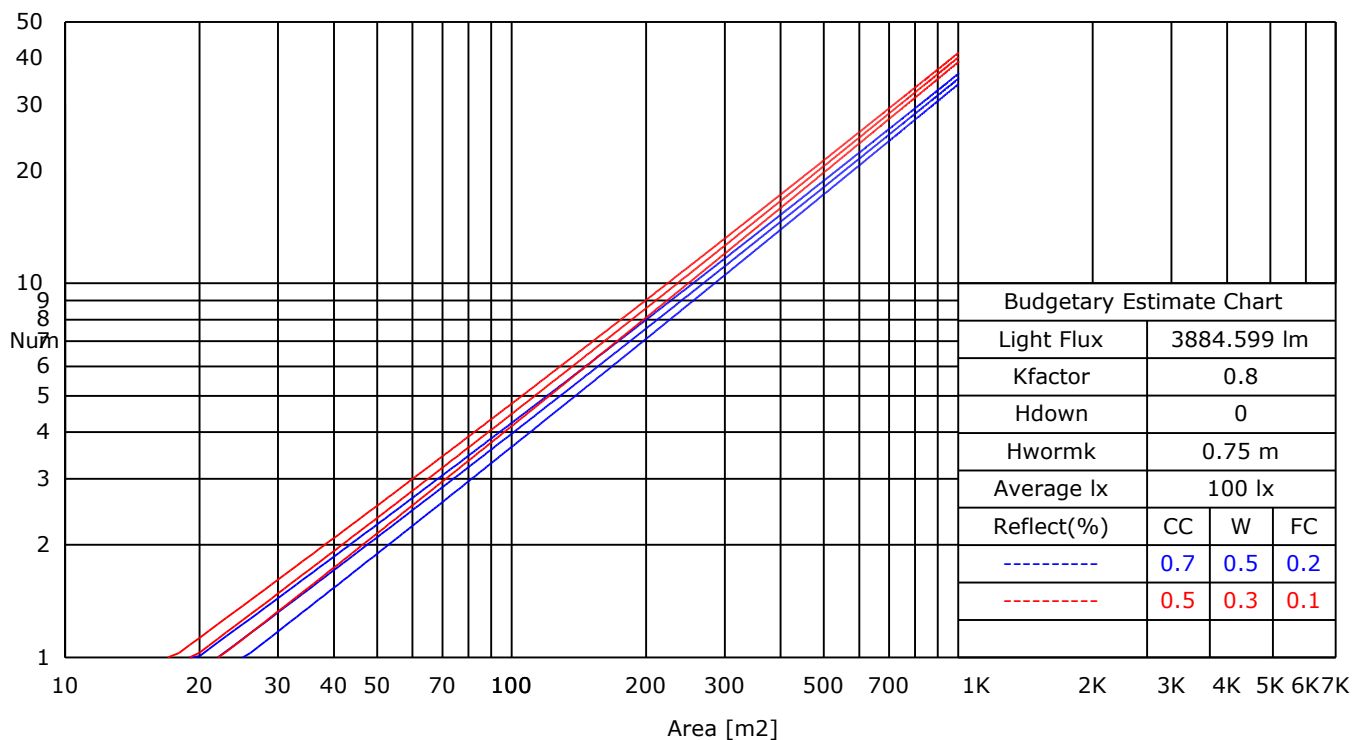
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UTILIZATION FACTORS TABLE

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	0.93	0.90	0.88	0.92	0.89	0.87	0.90	0.86	0.83	0.86	0.82	0.79	0.80	0.77	0.73	0.68
2	0.89	0.86	0.84	0.88	0.85	0.83	0.86	0.82	0.79	0.83	0.79	0.75	0.78	0.74	0.70	0.66
3	0.85	0.83	0.81	0.84	0.81	0.79	0.82	0.79	0.76	0.80	0.76	0.72	0.76	0.71	0.68	0.63
4	0.82	0.80	0.78	0.81	0.78	0.77	0.79	0.76	0.73	0.77	0.73	0.69	0.74	0.69	0.65	0.61
5	0.79	0.77	0.76	0.78	0.76	0.74	0.77	0.73	0.71	0.75	0.70	0.67	0.72	0.67	0.63	0.59
6	0.77	0.75	0.74	0.76	0.74	0.72	0.74	0.71	0.69	0.72	0.68	0.65	0.70	0.65	0.61	0.58
7	0.74	0.73	0.72	0.74	0.71	0.70	0.72	0.69	0.67	0.70	0.66	0.63	0.68	0.63	0.60	0.56
8	0.72	0.71	0.70	0.72	0.70	0.68	0.70	0.67	0.65	0.69	0.65	0.62	0.66	0.62	0.58	0.55
9	0.71	0.69	0.68	0.70	0.68	0.67	0.69	0.66	0.63	0.67	0.63	0.60	0.65	0.60	0.57	0.54
10	0.69	0.68	0.67	0.68	0.66	0.65	0.67	0.64	0.62	0.65	0.62	0.59	0.63	0.59	0.56	0.52

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



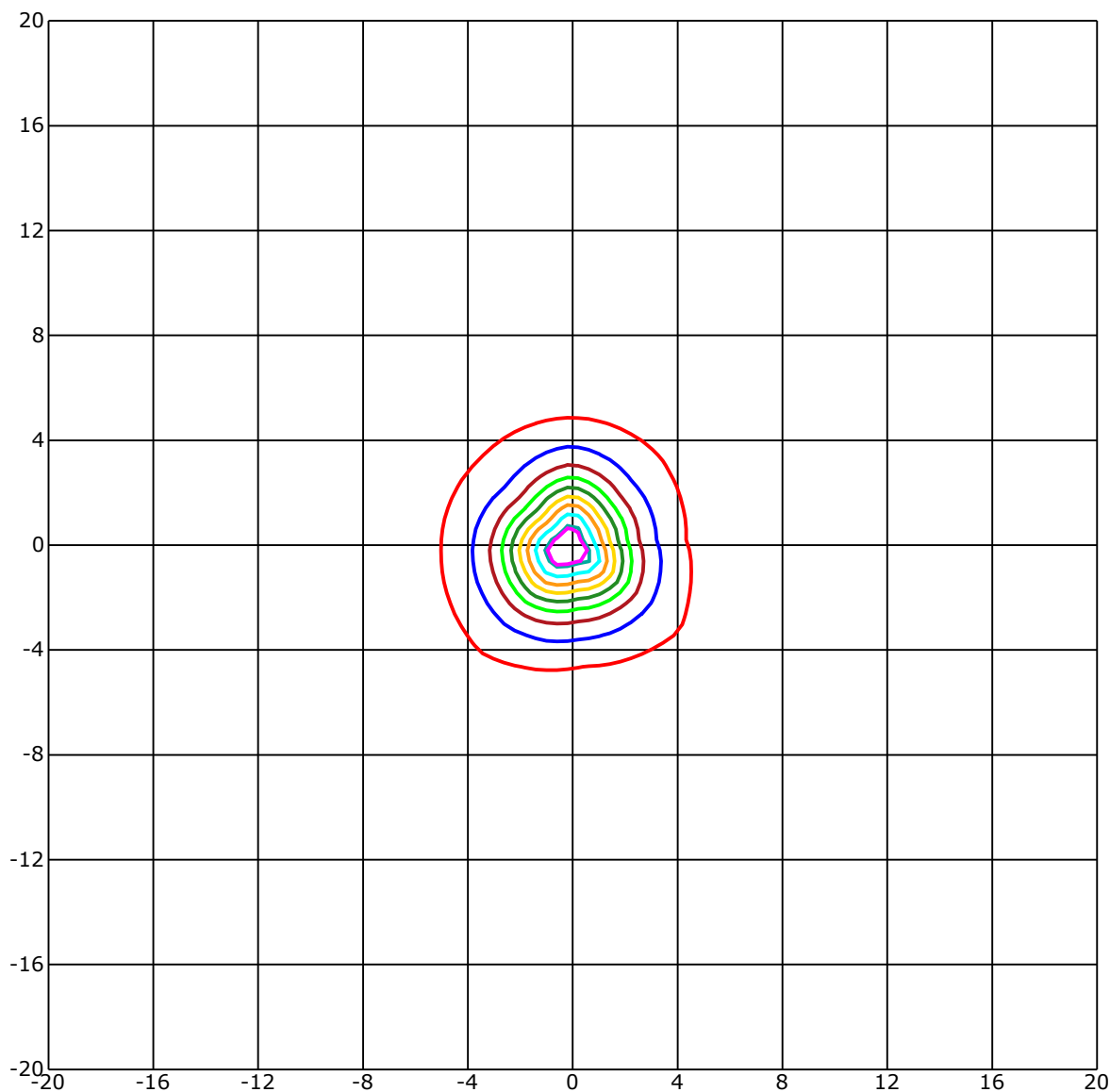
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C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/5/13 10:27:24

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)

116.708(92%Emax)	63.428(50%Emax)
114.171(90%Emax)	50.743(40%Emax)
101.485(80%Emax)	38.057(30%Emax)
88.799(70%Emax)	25.371(20%Emax)
76.114(60%Emax)	12.686(10%Emax)

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/5/13 10:27:24

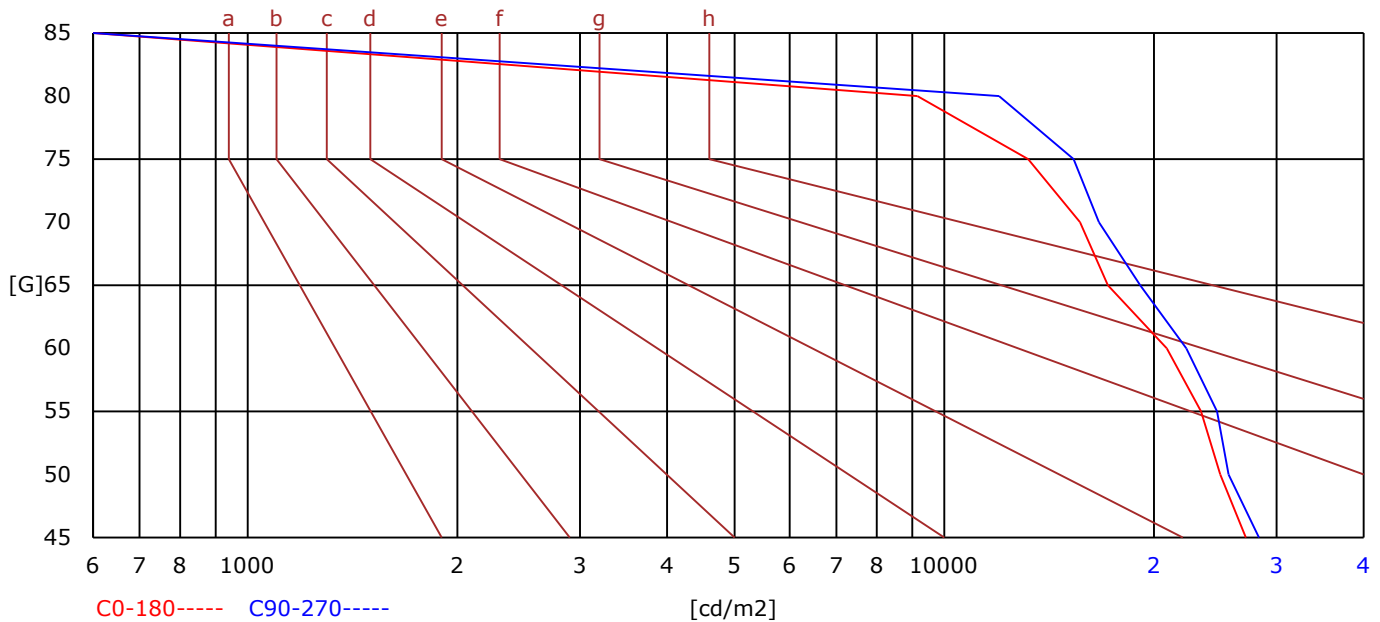
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	27101	24899	23375	20867	17168	15654	13191	9151	0
C90	28292	25584	24621	22246	19116	16662	15336	11980	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



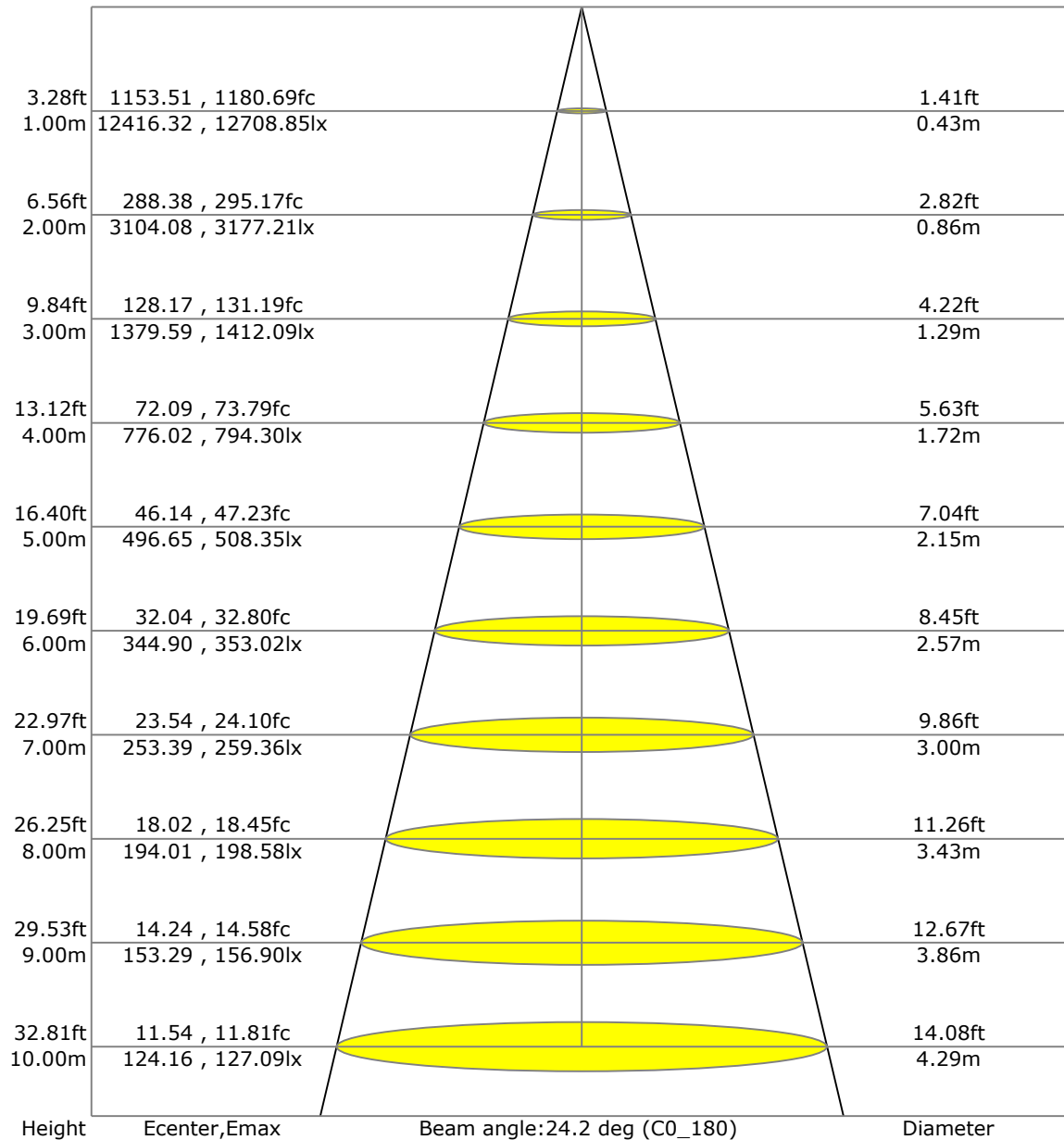
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Test Speed: High
Temperature: 25
Operators: QC01
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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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: 2025/5/13 10:27:24

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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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	10.56	10.62	10.76	10.81	11.05	10.84	10.89	11.03	11.08	11.32
3H	10.63	10.69	10.83	10.88	11.13	10.88	10.93	11.08	11.13	11.37
4H	10.63	10.69	10.84	10.89	11.14	10.87	10.93	11.08	11.13	11.38
6H	10.62	10.68	10.84	10.88	11.13	10.86	10.92	11.07	11.12	11.37
8H	10.61	10.67	10.83	10.88	11.13	10.85	10.91	11.07	11.11	11.37
12H	10.60	10.66	10.83	10.87	11.12	10.84	10.90	11.06	11.11	11.36
4H 2H	11.46	11.52	11.68	11.72	11.97	12.04	12.09	12.25	12.29	12.54
3H	11.63	11.69	11.85	11.90	12.15	12.18	12.24	12.40	12.44	12.70
4H	11.67	11.72	11.89	11.94	12.20	12.20	12.26	12.43	12.47	12.73
6H	11.67	11.72	11.90	11.95	12.21	12.18	12.24	12.42	12.46	12.73
8H	11.66	11.71	11.90	11.94	12.21	12.17	12.23	12.42	12.46	12.72
12H	11.64	11.70	11.89	11.93	12.20	12.16	12.21	12.41	12.45	12.72
8H 4H	11.59	11.65	11.81	11.86	12.11	12.39	12.45	12.60	12.65	12.90
6H	11.84	11.90	12.10	12.13	12.41	12.63	12.68	12.89	12.92	13.20
8H	11.83	11.88	12.09	12.13	12.41	12.61	12.67	12.88	12.91	13.19
12H	11.82	11.87	12.09	12.12	12.40	12.60	12.65	12.87	12.90	13.18
12H 4H	11.83	11.88	12.07	12.11	12.38	12.69	12.75	12.94	12.98	13.25
6H	11.83	11.88	12.09	12.13	12.40	12.69	12.74	12.95	12.98	13.26

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G Range: 0 - 90 Deg
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Humidity: 60
Test Distance: 6.87 m
Remarks:

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ZONAL LUMINOUS FLUX TABLE

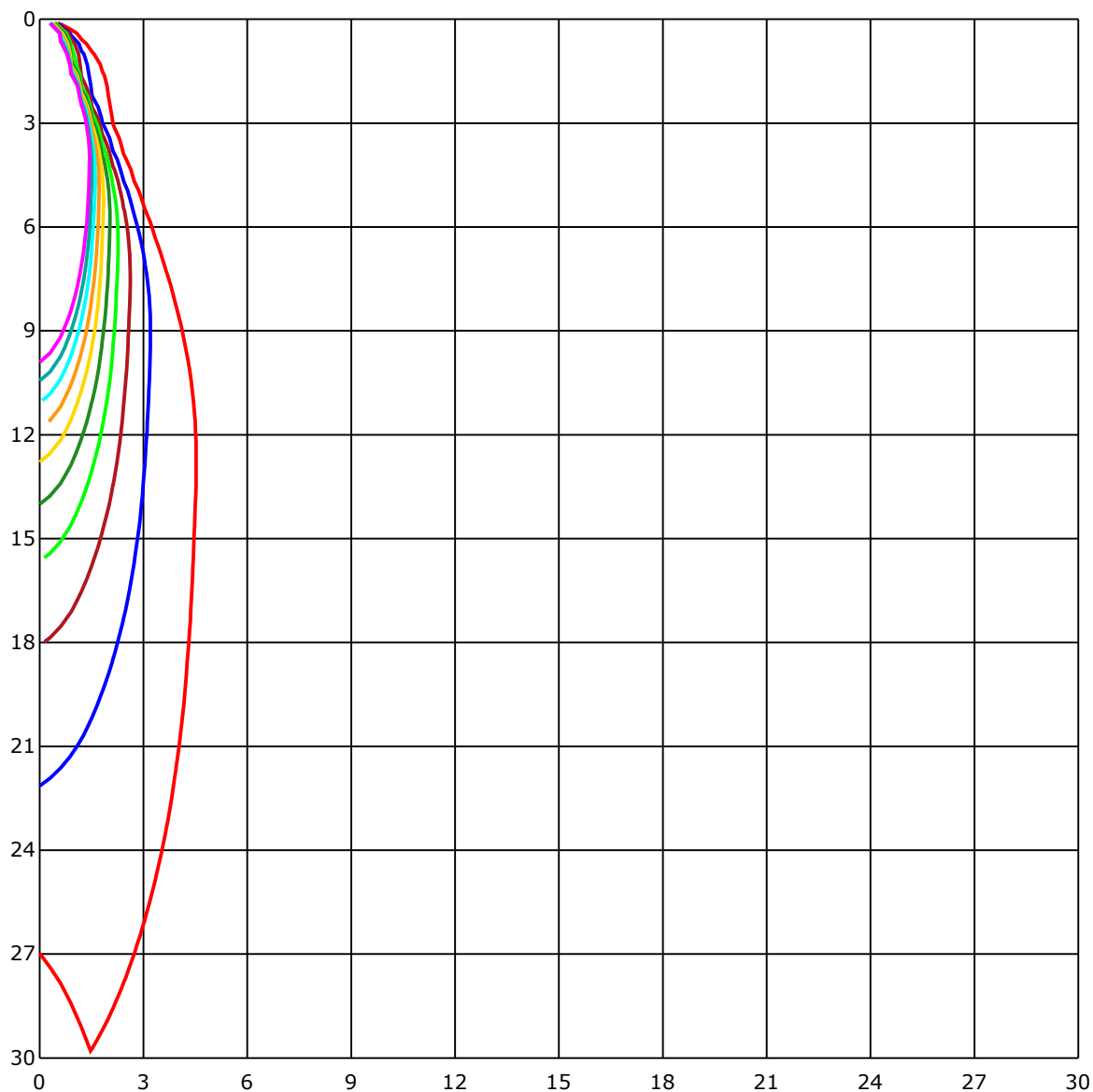
[illegible]

Remarks:

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SPACE ISOLX DIAGRAM



Unit of illumination:lx

126.611	63.305
113.95	50.644
101.289	37.983
88.628	25.322
75.967	12.661

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:

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	12416.32	12472.82	12623.52	12536.2	12416.32	12472.82	12623.52	12536.2	12416.32	
G1	12104.64	12174.16	12649.85	12350.53	12579.01	12631.31	12520.11	12599.17	12104.64	
G2	11693.08	11779.68	12522.52	12036.67	12666.75	12708.85	12292.29	12528.18	11693.08	
G3	11197.46	11299.36	12313.43	11649.99	12566.65	12647.49	11927.36	12340.71	11197.46	
G4	10584.8	10775.95	11980.98	11137.67	12375.36	12477.11	11475.27	12045.45	10584.8	
G5	9907.81	10134.92	11544.93	10590.7	12064.85	12157.26	10947.6	11626.34	9907.81	
G6	9210.33	9470.86	11056.02	9912.34	11651.5	11757.36	10369.39	11106.66	9210.33	
G7	8493.41	8755.26	10500.7	9243.94	11144.75	11273.17	9741.35	10520.9	8493.41	
G8	7793.01	8071.57	9865.33	8513.24	10543.46	10726.96	9090.26	9866.46	7793.01	
G9	7099.36	7358.28	9202.17	7817.84	9879.16	10094.19	8456.65	9182.58	7099.36	
G10	6427.79	6700.02	8502.9	7117.29	9184.94	9447.07	7785.6	8479.68	6427.79	
G11	5796.96	6074.19	7836.86	6470.37	8456.03	8764.56	7126.5	7773.33	5796.96	
G12	5215.87	5492.02	7162.74	5851.24	7743.08	8063.54	6487.07	7080.67	5215.87	
G13	4678.06	4957.33	6527.99	5276.24	7066.04	7385.61	5889.14	6437.99	4678.06	
G14	4205.76	4464.59	5920.47	4740.74	6381.02	6739.48	5319.28	5824.71	4205.76	
G15	3774.01	4035.34	5363.27	4293.08	5733.06	6121.06	4813.85	5263.54	3774.01	
G16	3407.62	3663.71	4848.73	3869.34	5162.07	5548.7	4342.16	4750.42	3407.62	
G17	3090.5	3322.05	4387.99	3509.84	4638.98	5009.95	3938.2	4295.96	3090.5	
G18	2823.37	3038.68	3974.73	3184.85	4190.42	4526.23	3574.98	3874.16	2823.37	
G19	2578.32	2773.67	3610.52	2915.12	3781.23	4089.66	3257.72	3517.35	2578.32	
G20	2350.74	2558.69	3280.42	2673.47	3425.69	3707.55	2950.18	3200.33	2350.74	
G21	2133.58	2356.02	2974.77	2469.25	3106.88	3365.04	2678.0	2940.98	2133.58	
G22	1917.04	2185.69	2693.62	2285.13	2837.38	3077.71	2401.47	2704.95	1917.04	
G23	1699.32	2029.28	2436.35	2128.06	2588.89	2814.3	2150.62	2499.88	1699.32	
G24	1487.36	1888.58	2193.62	1980.34	2366.55	2589.08	1911.24	2319.16	1487.36	
G25	1271.44	1749.07	1953.24	1846.67	2148.4	2390.05	1674.83	2165.72	1271.44	
G26	1064.72	1619.8	1714.71	1714.24	1937.1	2212.64	1446.63	2020.55	1064.72	
G27	871.92	1491.52	1484.81	1588.88	1709.52	2049.01	1231.04	1888.96	871.92	
G28	702.48	1368.62	1268.04	1463.62	1490.15	1899.63	1028.89	1758.7	702.48	
G29	560.89	1243.59	1072.36	1340.3	1279.23	1761.86	849.59	1632.02	560.89	
G30	448.84	1112.76	896.22	1213.2	1078.26	1623.95	695.35	1502.75	448.84	
G31	366.58	988.68	737.97	1089.3	891.36	1487.84	572.78	1376.73	366.58	
G32	308.2	865.64	604.26	964.7	725.46	1361.3	467.53	1243.31	308.2	
G33	264.44	739.67	498.59	842.28	587.6	1228.3	388.95	1113.14	264.44	
G34	231.5	616.01	412.5	721.45	480.79	1102.66	328.11	981.84	231.5	
G35	208.8	508.83	349.59	604.31	395.09	979.15	277.94	845.49	208.8	
G36	193.55	414.01	301.82	496.65	336.99	852.71	243.44	708.57	193.55	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/5/13 10:27:24

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	181.28	340.05	268.13	403.77	292.9	724.28	217.25	587.6	181.28	
G38	172.32	284.03	239.43	331.18	259.87	608.42	198.98	483.82	172.32	
G39	164.67	242.78	220.6	279.83	235.51	506.09	183.97	397.59	164.67	
G40	159.2	214.6	205.59	237.78	217.67	419.49	172.36	330.24	159.2	
G41	152.92	189.4	194.45	207.76	204.79	351.43	163.96	281.15	152.92	
G42	147.63	172.79	185.96	185.77	195.02	298.95	155.7	241.98	147.63	
G43	143.15	160.0	176.89	169.91	184.68	259.63	150.37	216.02	143.15	
G44	137.86	150.51	170.85	157.26	177.84	230.32	143.86	194.17	137.86	
G45	133.57	141.73	164.29	147.96	171.32	206.63	138.9	179.73	133.57	
G46	129.6	136.26	159.95	140.69	164.76	188.65	133.47	167.6	129.6	
G47	125.87	130.97	153.15	136.26	158.63	175.81	129.18	159.62	125.87	
G48	122.29	127.01	148.34	130.31	154.57	164.43	124.79	152.3	122.29	
G49	116.34	122.48	144.09	125.69	148.29	155.99	121.39	146.03	116.34	
G50	112.94	118.37	138.33	121.63	144.19	150.27	116.01	140.6	112.94	
G51	108.03	114.64	133.76	118.94	139.84	144.47	111.76	136.3	108.03	
G52	105.72	111.81	129.13	114.26	134.56	138.71	108.08	131.3	105.72	
G53	98.97	106.76	124.98	110.54	129.13	133.38	103.08	127.76	98.97	
G54	94.39	103.31	119.69	105.96	124.46	128.85	97.74	124.36	94.39	
G55	90.48	99.16	116.29	104.45	120.07	123.7	93.87	119.17	90.48	
G56	86.65	95.15	111.57	98.36	116.34	120.26	89.44	115.11	86.65	
G57	80.05	90.52	106.19	95.29	111.01	114.97	84.62	110.77	80.05	
G58	75.8	86.28	100.34	91.42	106.52	111.34	79.62	105.3	75.8	
G59	70.75	81.75	96.38	86.65	101.71	105.96	76.22	101.8	70.75	
G60	64.9	77.17	90.43	82.26	95.95	101.95	70.09	96.75	64.9	
G61	59.8	71.88	85.8	78.87	90.85	97.13	65.98	93.03	59.8	
G62	56.07	68.15	79.43	74.34	87.17	92.93	59.52	87.79	56.07	
G63	54.47	62.87	73.44	69.29	80.99	88.02	55.74	83.92	54.47	
G64	53.1	58.76	69.05	63.86	75.66	83.92	53.8	78.02	53.1	
G65	49.7	53.66	65.23	59.75	69.47	78.49	51.4	73.44	49.7	
G66	48.0	49.32	62.87	54.75	67.3	73.82	49.27	68.25	48.0	
G67	45.07	46.58	60.79	51.82	63.72	68.95	46.49	63.34	45.07	
G68	42.15	44.74	57.86	48.24	61.26	64.23	44.13	60.32	42.15	
G69	39.5	41.86	56.21	44.79	58.19	60.51	41.82	56.4	39.5	
G70	38.65	39.6	53.1	42.15	56.21	57.3	39.93	52.62	38.65	
G71	35.73	35.96	50.12	39.79	52.72	53.24	36.72	50.64	35.73	
G72	32.24	33.6	47.2	37.19	50.45	50.6	34.08	47.01	32.24	
G73	29.26	30.82	44.84	34.41	48.38	48.0	32.0	44.98	29.26	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/5/13 10:27:24

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: 2025/5/13 10:27:24

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