

Report No.:

Test Time: 2025/4/17 16:36:10

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP138CT095H122-45°-15W
Lamp Type:
Luminous Width: 90 mm
Luminous Length: 90 mm
Luminous Height: 95 mm

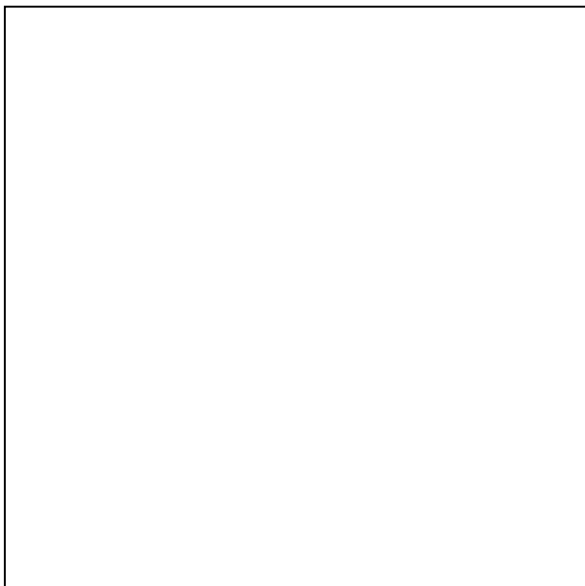
Voltage(V): 219.90 V
Current(A): 0.0690 A
Power(W): 14.51 W
Power Factor: 0.9470
Lamp Luminous Flux: 1135.84

Photometric Results

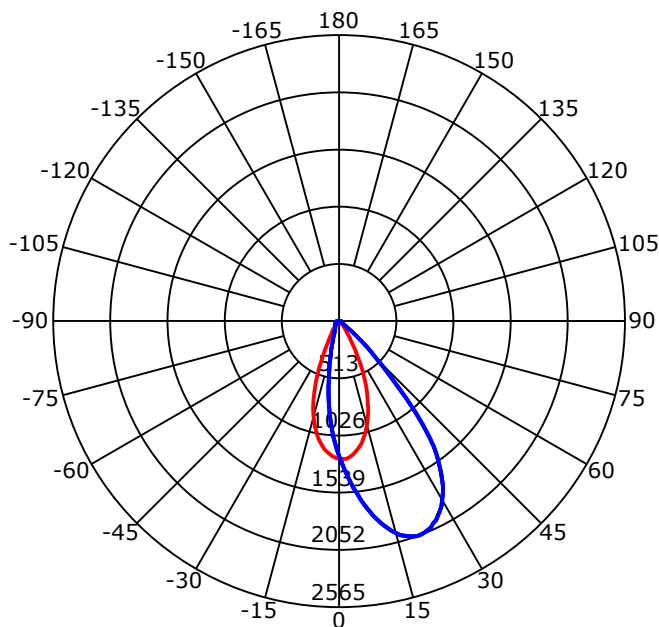
CIE Class: Direct
Luminaire Luminous Flux: 1135.838 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 78.30 lm/W
Beam Angle(50%) C0-180,C90-270: 43.0,43.3
Field Angle(10%) C0-180,C90-270: 66.5,66.2
S/MH C0-180,C90-270: 0.689,1.155

Max. Intensity: 2051.98 cd
Max.Intensity Angle: C=90 Gamma=20
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 1235.38 cd
Effective Luminous Flux: 975.15 lm
ERP(ϕ use)(120deg): 1101.47 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 43.0 deg,43.3 deg

C0-180 — C90-270 —

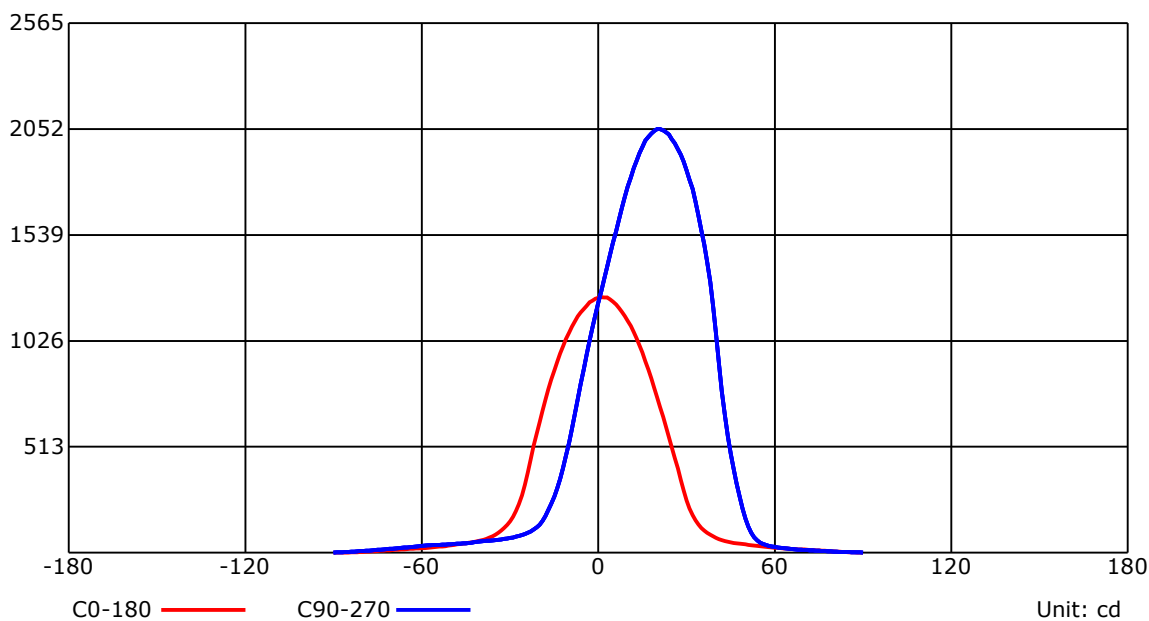
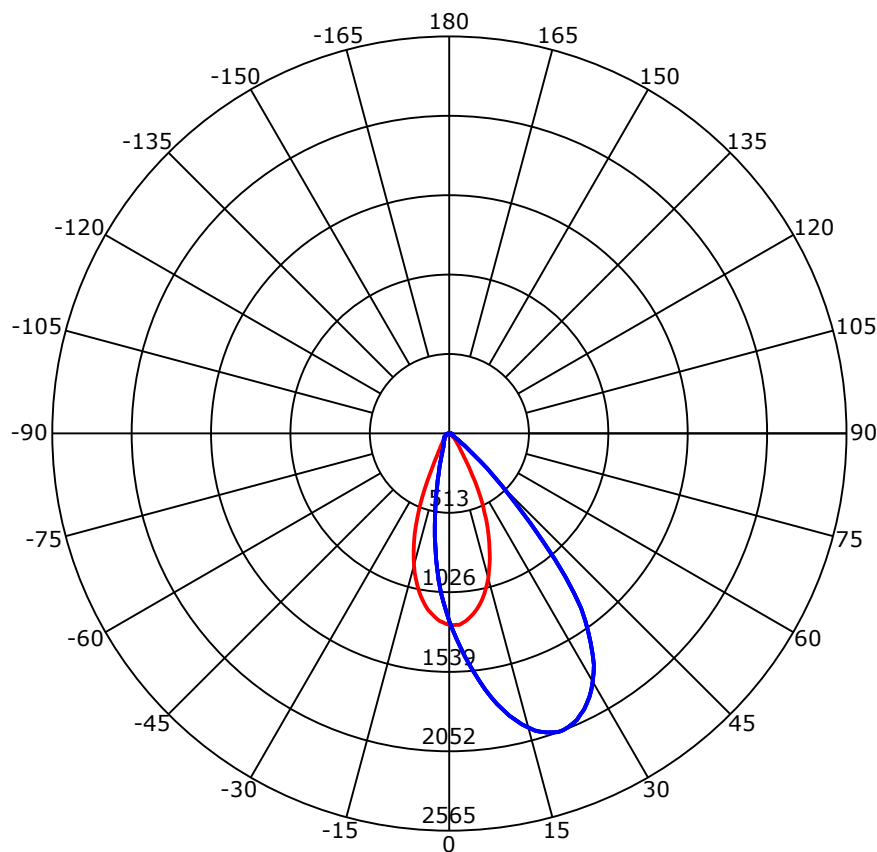
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/4/17 16:36:10

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



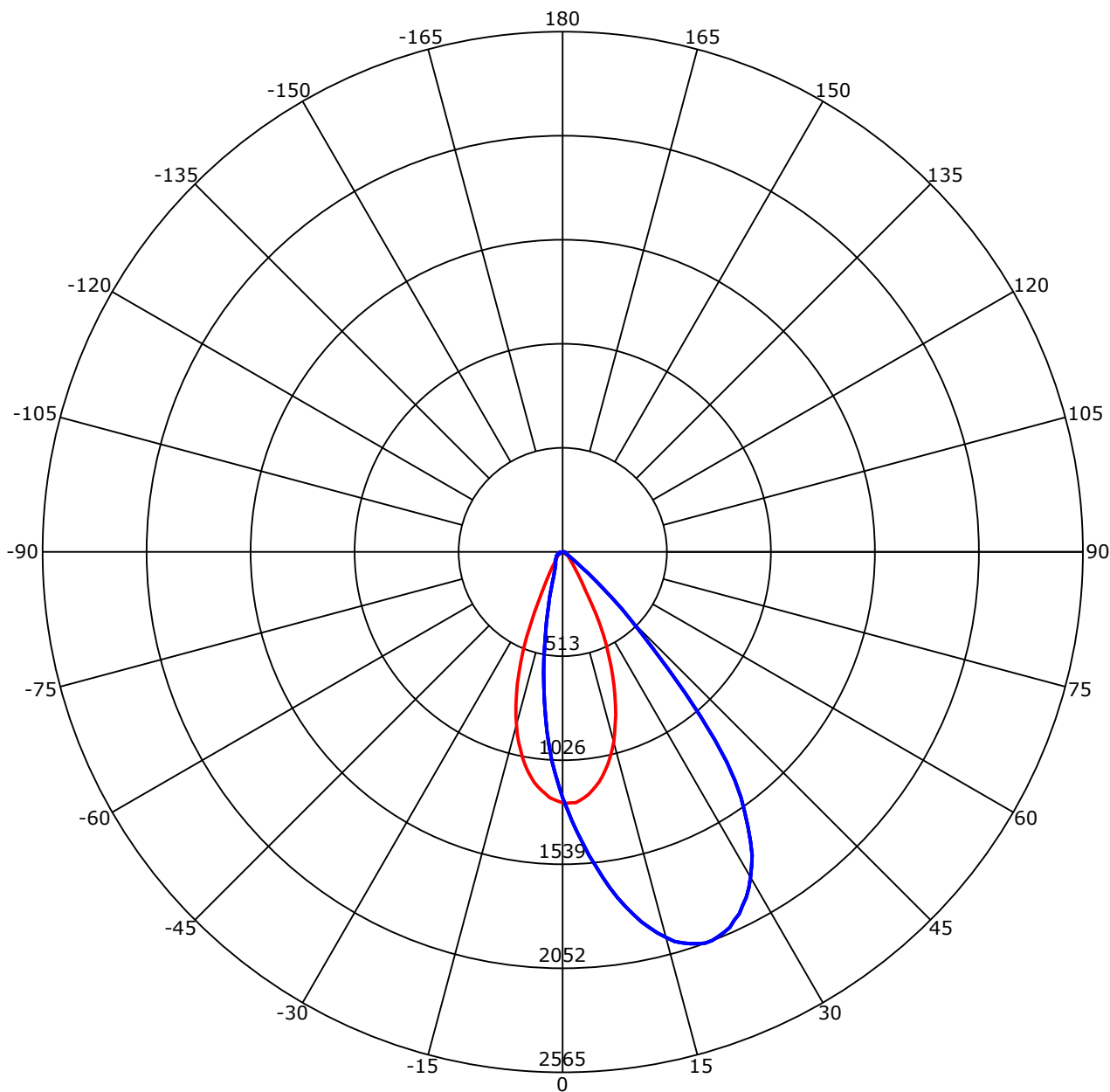
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/4/17 16:36:10

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: 2025/4/17 16:36:10

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

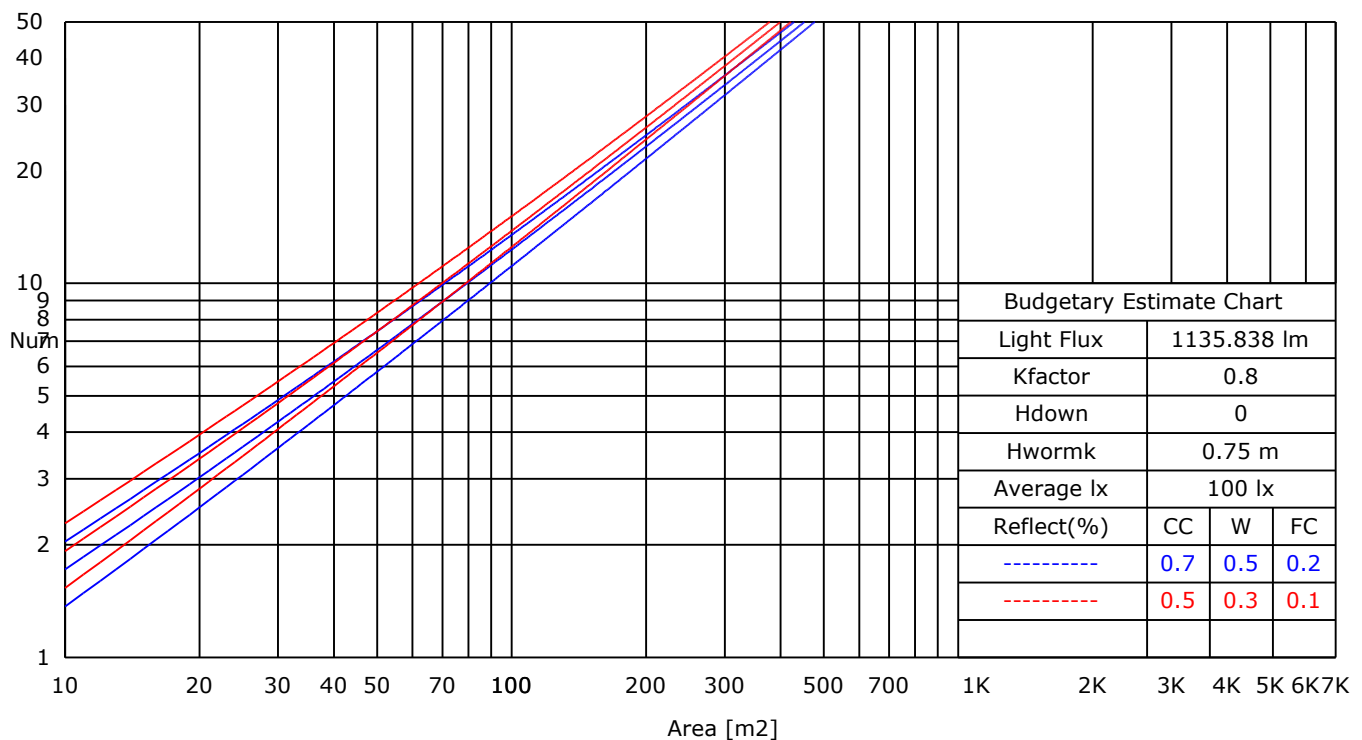
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UTILIZATION FACTORS TABLE

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	1.06	1.04	1.03	1.05	1.03	1.01	1.01	0.99	0.97	0.96	0.94	0.92	0.89	0.87	0.85	0.80
2	1.00	0.98	0.97	0.99	0.97	0.95	0.96	0.93	0.91	0.92	0.89	0.86	0.86	0.83	0.81	0.76
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	0.90	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
5	0.86	0.85	0.84	0.85	0.83	0.82	0.83	0.80	0.78	0.80	0.77	0.74	0.77	0.73	0.69	0.66
6	0.83	0.81	0.80	0.82	0.80	0.78	0.80	0.77	0.74	0.77	0.73	0.71	0.74	0.70	0.66	0.63
7	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	0.60
8	0.76	0.75	0.74	0.75	0.73	0.72	0.74	0.71	0.68	0.71	0.68	0.65	0.69	0.65	0.61	0.58
9	0.73	0.72	0.71	0.72	0.71	0.69	0.71	0.68	0.66	0.69	0.65	0.62	0.67	0.62	0.59	0.56
10	0.71	0.69	0.68	0.70	0.68	0.67	0.68	0.65	0.64	0.67	0.63	0.60	0.65	0.60	0.57	0.54

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



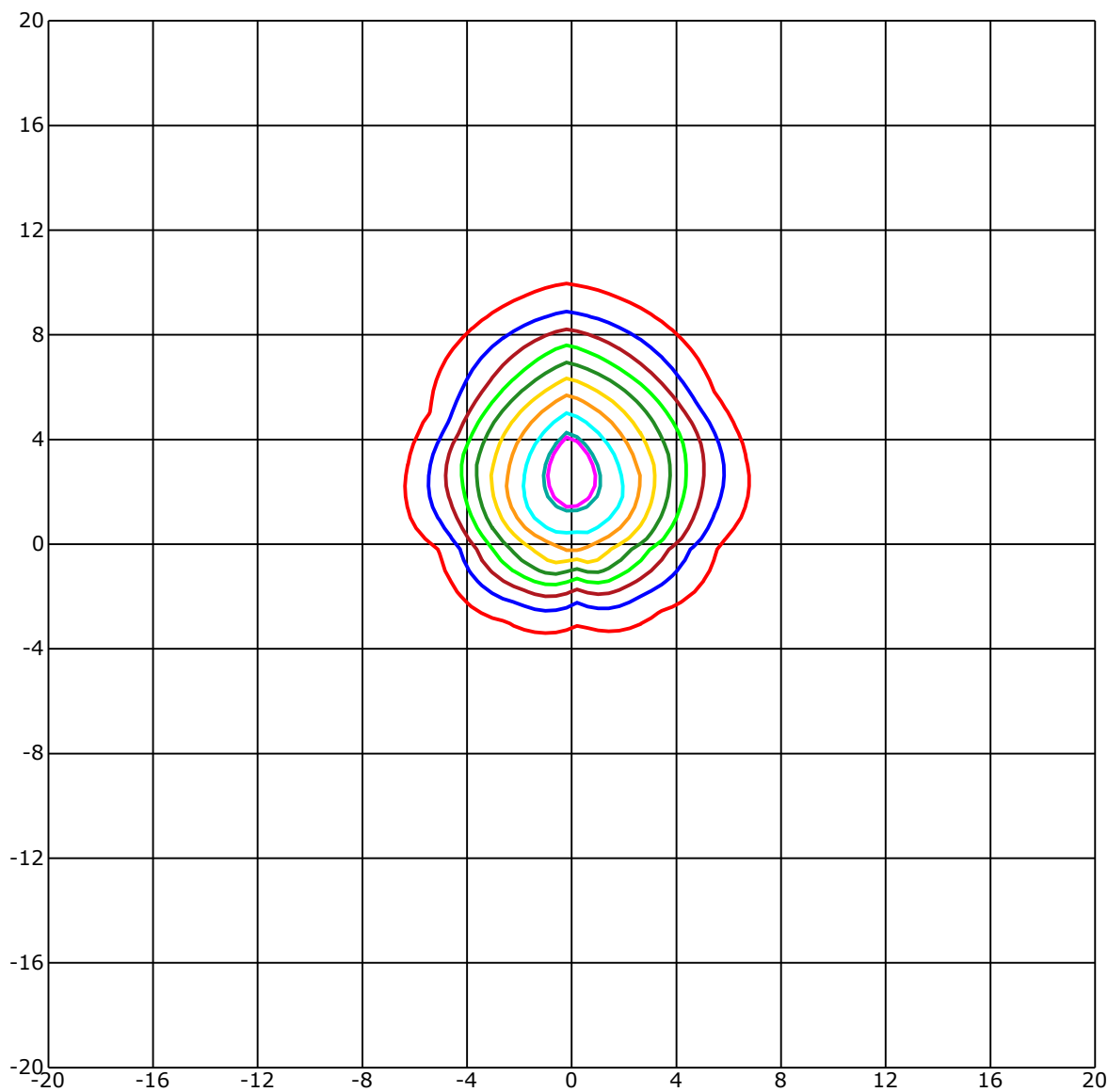
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/4/17 16:36:10

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)

16.314(92%Emax)	8.866(50%Emax)
15.96(90%Emax)	7.093(40%Emax)
14.186(80%Emax)	5.32(30%Emax)
12.413(70%Emax)	3.547(20%Emax)
10.64(60%Emax)	1.773(10%Emax)

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/4/17 16:36:10

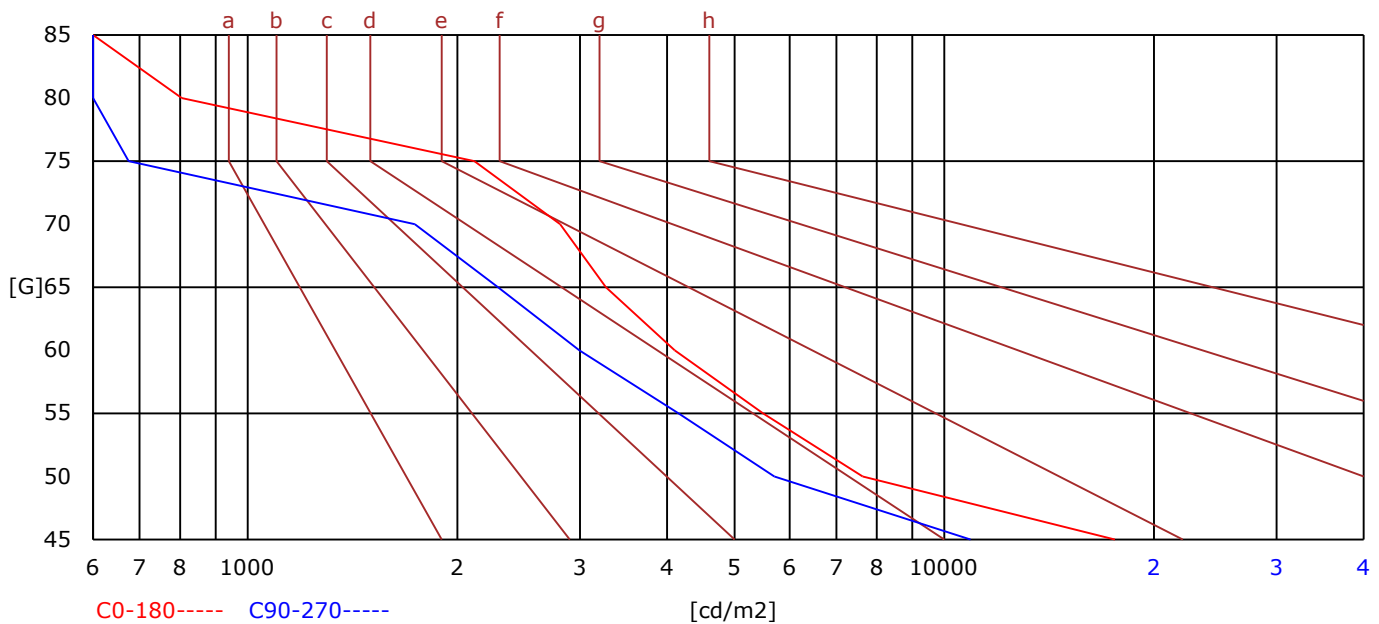
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	17585	7633	5496	4102	3268	2811	2116	805	0
C90	10902	5702	4155	2995	2289	1738	675	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



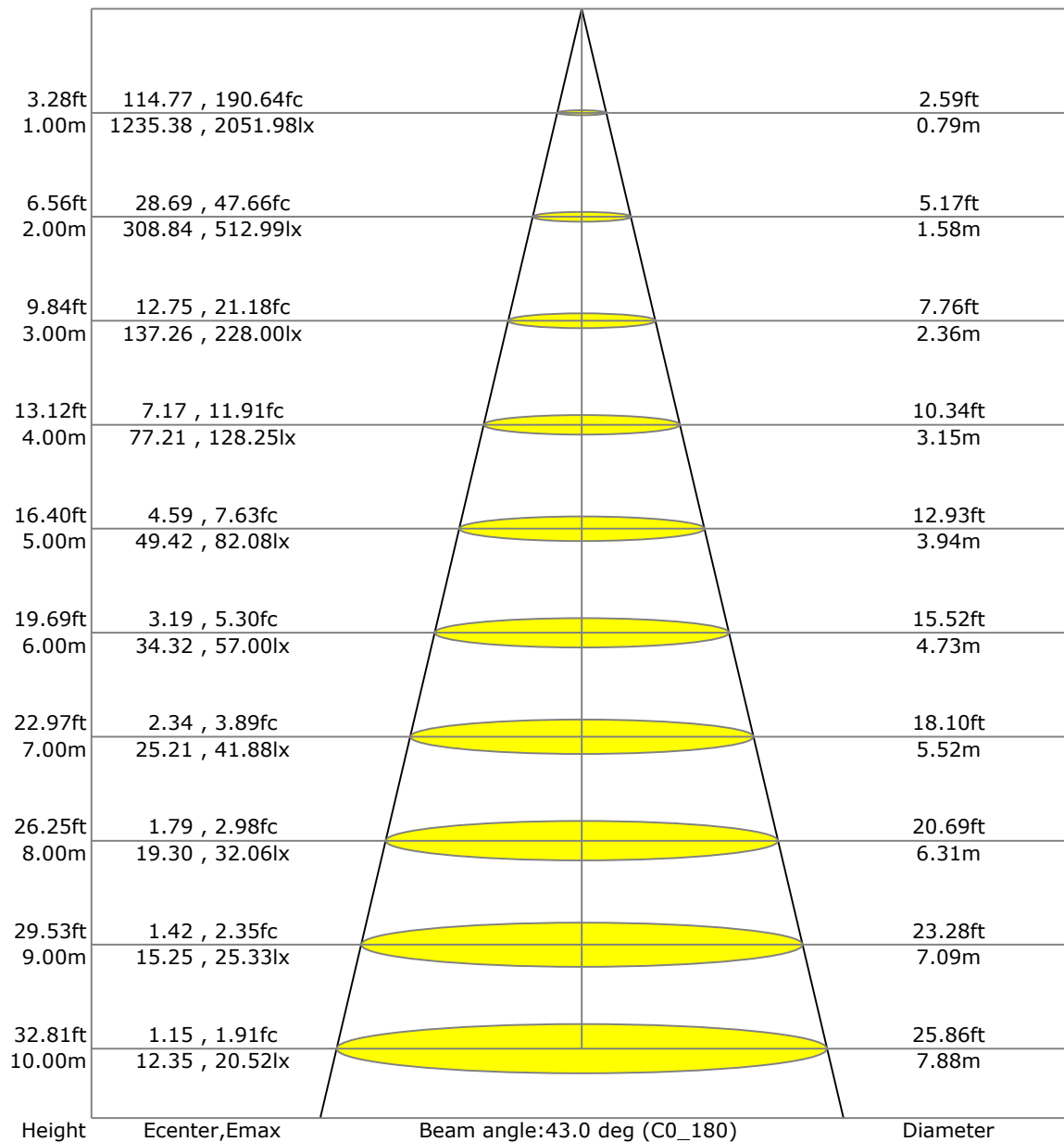
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/4/17 16:36:10

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: 2025/4/17 16:36:10

LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 25
 Operators: QC01
 Test Date: 2025/4/17 16:36:10

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: 2025/4/17 16:36:10

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	18.09	18.15	18.29	18.33	18.58	18.57	18.62	18.77	18.81	19.05
3H	18.07	18.12	18.27	18.31	18.56	18.54	18.60	18.75	18.79	19.04
4H	18.05	18.10	18.26	18.30	18.55	18.53	18.58	18.74	18.78	19.03
6H	18.03	18.08	18.25	18.28	18.54	18.51	18.56	18.72	18.76	19.01
8H	18.02	18.07	18.24	18.28	18.53	18.50	18.55	18.72	18.75	19.01
12H	18.01	18.06	18.23	18.27	18.52	18.49	18.54	18.71	18.75	19.00
4H 2H	18.15	18.20	18.36	18.40	18.65	18.60	18.66	18.81	18.85	19.10
3H	18.12	18.18	18.35	18.38	18.64	18.57	18.63	18.79	18.83	19.09
4H	18.10	18.16	18.33	18.37	18.63	18.55	18.60	18.78	18.82	19.07
6H	18.08	18.13	18.32	18.35	18.61	18.53	18.58	18.77	18.80	19.06
8H	18.07	18.11	18.31	18.34	18.61	18.51	18.56	18.76	18.79	19.05
12H	18.05	18.10	18.30	18.33	18.60	18.50	18.55	18.75	18.78	19.05
8H 4H	18.16	18.21	18.38	18.42	18.67	18.60	18.65	18.81	18.85	19.10
6H	18.08	18.13	18.34	18.37	18.64	18.51	18.56	18.77	18.80	19.07
8H	18.07	18.11	18.33	18.35	18.63	18.50	18.54	18.76	18.79	19.06
12H	18.05	18.09	18.32	18.34	18.62	18.48	18.52	18.75	18.77	19.05
12H 4H	18.11	18.15	18.35	18.38	18.65	18.54	18.58	18.79	18.82	19.08
6H	18.08	18.12	18.34	18.36	18.64	18.51	18.55	18.77	18.79	19.07

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:

ZONAL LUMINOUS FLUX TABLE

[illegible]

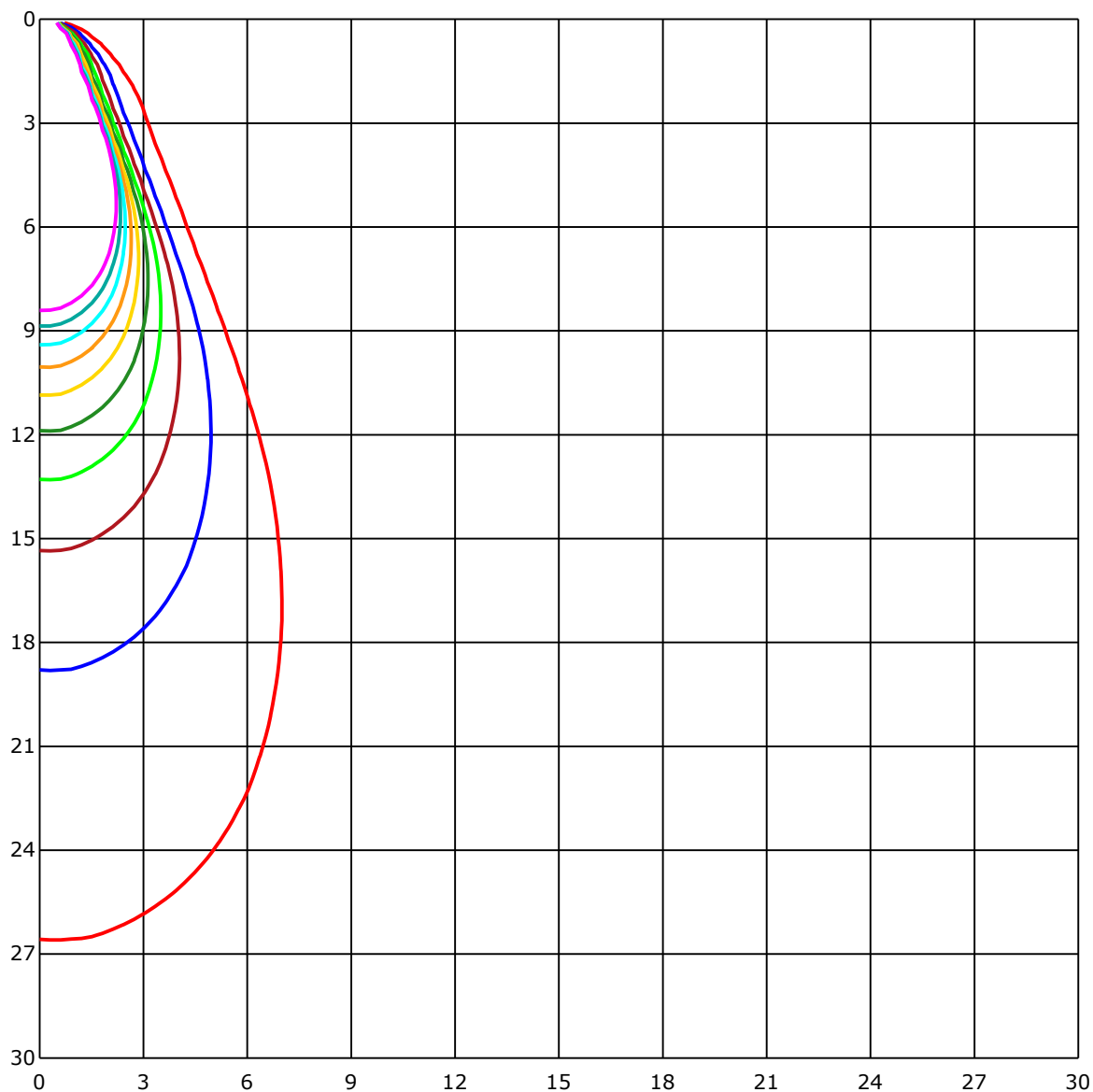
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Humidity: 60
Test Distance: 6.87 m
Remarks:

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SPACE ISOLX DIAGRAM



Unit of illumination:lx

17.493

15.744

13.995

12.245

10.496

8.747

6.997

5.248

3.499

1.749

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/4/17 16:36:10

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: 2025/4/17 16:36:10

LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	1235.38	1303.39	1210.7	1323.4	1235.38	1303.39	1210.7	1323.4	1235.38	
G1	1238.45	1344.73	1269.03	1358.04	1229.72	1265.54	1150.76	1287.25	1238.45	
G2	1236.61	1379.85	1327.41	1389.48	1220.89	1221.08	1089.92	1249.35	1236.61	
G3	1236.94	1413.17	1385.75	1415.58	1212.68	1180.91	1027.67	1211.78	1236.94	
G4	1227.03	1442.24	1443.8	1442.9	1196.58	1137.16	960.27	1170.72	1227.03	
G5	1215.75	1476.23	1502.09	1465.32	1181.1	1088.22	888.39	1126.31	1215.75	
G6	1201.78	1498.31	1557.03	1486.84	1164.16	1038.95	815.7	1081.05	1201.78	
G7	1185.07	1522.62	1614.98	1504.5	1144.71	986.32	742.55	1029.41	1185.07	
G8	1166.99	1539.56	1671.01	1518.7	1120.55	924.73	671.23	977.68	1166.99	
G9	1146.79	1559.48	1724.01	1527.25	1095.25	864.13	600.01	920.1	1146.79	
G10	1122.86	1569.63	1773.19	1536.97	1066.18	801.31	532.24	861.96	1122.86	
G11	1097.75	1578.17	1817.98	1541.12	1034.13	739.67	468.71	800.46	1097.75	
G12	1068.68	1582.65	1863.38	1536.21	999.02	674.21	410.38	740.57	1068.68	
G13	1038.29	1585.39	1898.87	1529.56	964.42	611.39	357.14	679.21	1038.29	
G14	1003.26	1586.24	1935.97	1521.53	925.39	549.51	311.41	620.97	1003.26	
G15	970.04	1577.23	1965.33	1509.78	882.3	490.66	271.34	563.06	970.04	
G16	927.89	1564.67	1996.43	1498.41	837.37	435.63	236.27	507.79	927.89	
G17	885.93	1553.06	2014.13	1477.83	790.83	385.46	206.06	453.61	885.93	
G18	843.31	1537.06	2030.55	1456.78	740.24	338.26	176.94	404.81	843.31	
G19	797.67	1512.57	2042.35	1432.52	687.52	295.92	153.39	358.18	797.67	
G20	751.99	1490.05	2051.98	1405.38	632.3	256.18	135.83	317.64	751.99	
G21	706.07	1464.0	2051.46	1375.7	576.7	220.36	122.19	280.87	706.07	
G22	658.11	1435.26	2045.61	1347.0	516.19	190.63	111.48	247.31	658.11	
G23	608.84	1401.84	2036.41	1312.88	452.1	166.65	103.22	216.35	608.84	
G24	558.81	1366.49	2026.07	1278.42	388.43	148.06	96.42	189.35	558.81	
G25	509.02	1333.5	2001.76	1240.19	329.91	133.0	90.48	166.7	509.02	
G26	459.37	1297.4	1984.49	1197.29	277.66	121.67	85.33	149.43	459.37	
G27	407.97	1255.44	1954.52	1148.3	235.04	111.95	80.9	134.61	407.97	
G28	352.51	1212.58	1927.38	1089.92	201.34	103.93	77.4	123.14	352.51	
G29	300.88	1167.75	1893.63	1015.68	174.72	97.04	73.82	113.74	300.88	
G30	253.35	1117.72	1852.43	930.35	152.68	90.9	70.98	106.19	253.35	
G31	214.13	1059.71	1807.22	827.17	134.84	85.76	68.72	99.35	214.13	
G32	182.46	988.59	1762.33	722.11	120.21	80.99	66.64	93.69	182.46	
G33	157.21	904.53	1700.6	614.65	107.56	77.31	64.75	88.45	157.21	
G34	136.26	799.66	1633.96	515.53	96.71	74.0	63.06	84.01	136.26	
G35	120.3	687.0	1562.69	430.53	87.55	71.36	61.64	80.14	120.3	
G36	107.18	573.06	1495.01	361.62	79.62	68.95	60.08	76.93	107.18	

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

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	96.52	471.36	1412.37	304.42	72.78	66.78	58.52	74.15	96.52	
G38	86.84	385.13	1312.78	257.46	66.93	64.66	57.11	71.41	86.84	
G39	79.1	316.97	1192.48	216.82	62.58	62.91	55.6	69.38	79.1	
G40	72.02	262.65	1059.1	181.24	58.67	61.03	54.37	67.16	72.02	
G41	65.89	219.28	918.97	148.81	55.5	59.42	52.67	65.32	65.89	
G42	60.6	183.03	782.01	120.59	52.86	57.53	50.93	63.76	60.6	
G43	56.45	151.79	662.22	96.38	50.6	55.83	48.71	61.73	56.45	
G44	53.19	124.03	562.92	77.26	47.81	54.04	46.96	60.03	53.19	
G45	50.41	100.72	479.99	62.44	45.88	52.2	45.92	58.29	50.41	
G46	47.57	81.56	406.65	51.78	43.94	50.17	44.93	56.73	47.57	
G47	45.4	66.03	336.56	43.14	42.1	47.95	43.85	54.89	45.4	
G48	43.56	54.42	270.44	37.24	40.07	45.92	43.09	53.19	43.56	
G49	41.82	45.59	212.67	32.94	38.23	44.65	42.15	50.78	41.82	
G50	40.12	39.74	164.15	29.69	36.2	43.14	41.2	48.71	40.12	
G51	38.37	35.54	125.26	27.09	34.03	42.15	40.35	47.24	38.37	
G52	36.44	32.24	96.47	24.92	32.19	40.83	39.69	46.21	36.44	
G53	34.88	29.64	75.18	22.98	30.58	39.65	38.89	44.7	34.88	
G54	33.09	27.33	59.99	21.29	29.12	38.47	38.18	43.47	33.09	
G55	31.62	25.53	48.99	19.3	27.7	37.38	37.62	42.48	31.62	
G56	29.4	23.65	41.91	17.51	26.43	36.29	37.14	41.3	29.4	
G57	27.89	22.04	37.14	15.76	25.39	35.49	36.29	40.07	27.89	
G58	26.62	20.11	33.65	14.49	23.98	34.36	35.44	39.08	26.62	
G59	25.44	18.22	30.63	13.26	22.89	33.65	34.26	37.95	25.44	
G60	24.12	16.61	28.22	12.13	21.85	32.66	33.09	37.1	24.12	
G61	23.08	15.39	25.68	11.04	20.96	31.72	31.57	36.25	23.08	
G62	21.95	14.25	23.6	10.15	19.96	30.87	30.11	35.54	21.95	
G63	21.1	13.12	21.8	9.2	19.21	29.59	28.65	34.45	21.1	
G64	19.87	11.99	20.06	8.45	18.41	28.55	27.47	33.65	19.87	
G65	18.88	11.19	18.45	7.83	17.65	27.33	25.96	32.47	18.88	
G66	18.17	10.15	17.18	7.36	16.57	26.05	24.68	31.39	18.17	
G67	17.42	9.39	15.86	6.8	15.67	24.92	23.41	30.21	17.42	
G68	16.66	8.73	14.73	6.28	14.73	23.69	22.23	29.03	16.66	
G69	16.09	8.35	13.69	5.43	13.83	22.42	20.77	27.7	16.09	
G70	15.15	7.79	12.98	4.81	12.88	21.19	19.54	26.52	15.15	
G71	14.35	7.17	12.27	4.06	11.99	20.01	18.31	25.2	14.35	
G72	13.59	6.37	11.42	3.3	10.86	18.69	17.18	23.98	13.59	
G73	12.7	5.76	10.62	2.69	10.1	17.6	16.05	22.65	12.7	

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/4/17 16:36:10

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

Test Time: 2025/4/17 16:36:10

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

[illegible]

Remarks: