

Report No.:

Test Time: 2025/5/8 17:50:27

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP112CT085H68-45°-15W
Lamp Type:
Luminous Width: 58 mm
Luminous Length: 58 mm
Luminous Height: 45 mm

Voltage(V): 219.80 V
Current(A): 0.0730 A
Power(W): 15.36 W
Power Factor: 0.9520
Lamp Luminous Flux: 1328.99

Photometric Results

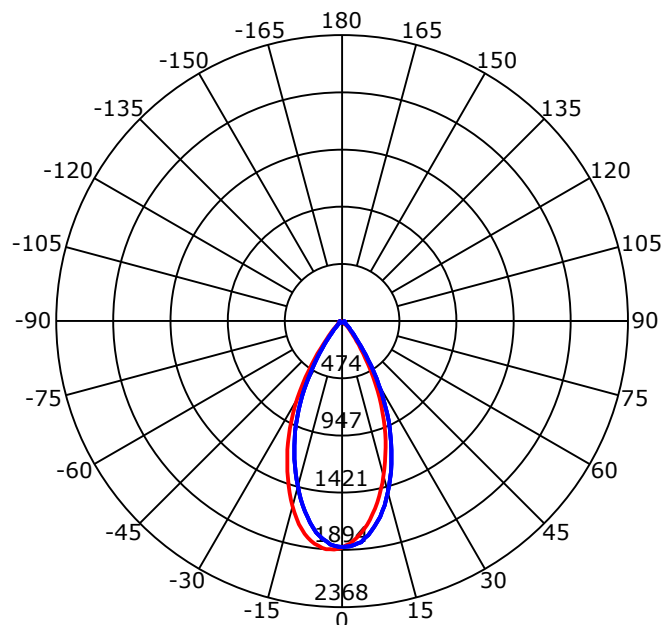
CIE Class: Direct
Luminaire Luminous Flux: 1328.994 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 86.52 lm/W
Beam Angle(50%) C0-180,C90-270: 48.6,48.7
Field Angle(10%) C0-180,C90-270: 77.6,78.2
S/MH C0-180,C90-270: 0.768,0.768

Max. Intensity: 1894.15 cd
Max.Intensity Angle: C=180 Gamma=4
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 1874.47 cd
Effective Luminous Flux: 1182.31 lm
ERP(ϕ use)(120deg): 1293.13 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 48.6 deg,48.7 deg

C0-180 — C90-270 —

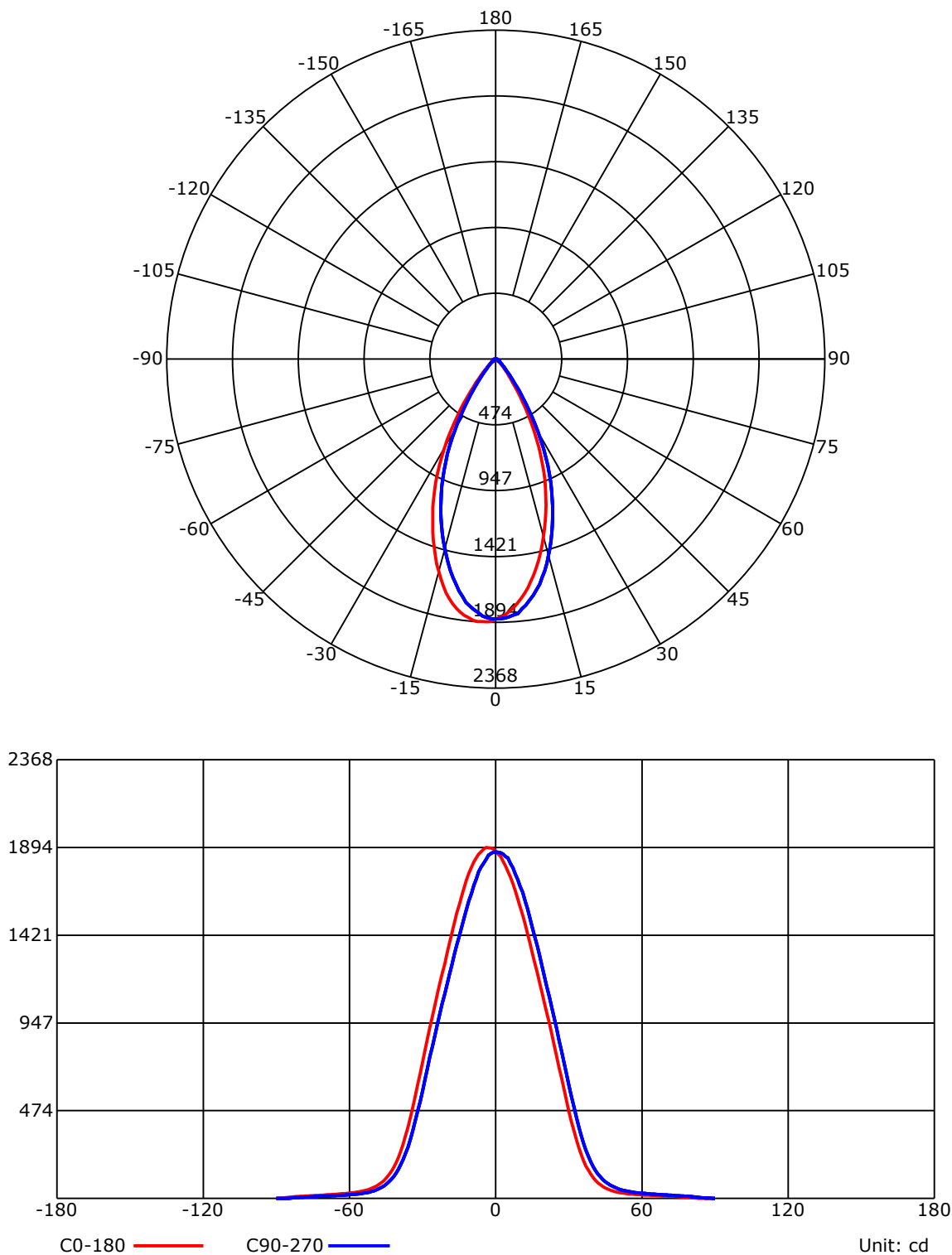
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/5/8 17:50:27

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: 2025/5/8 17:50:27

Luminous Intensity Distribution Curve



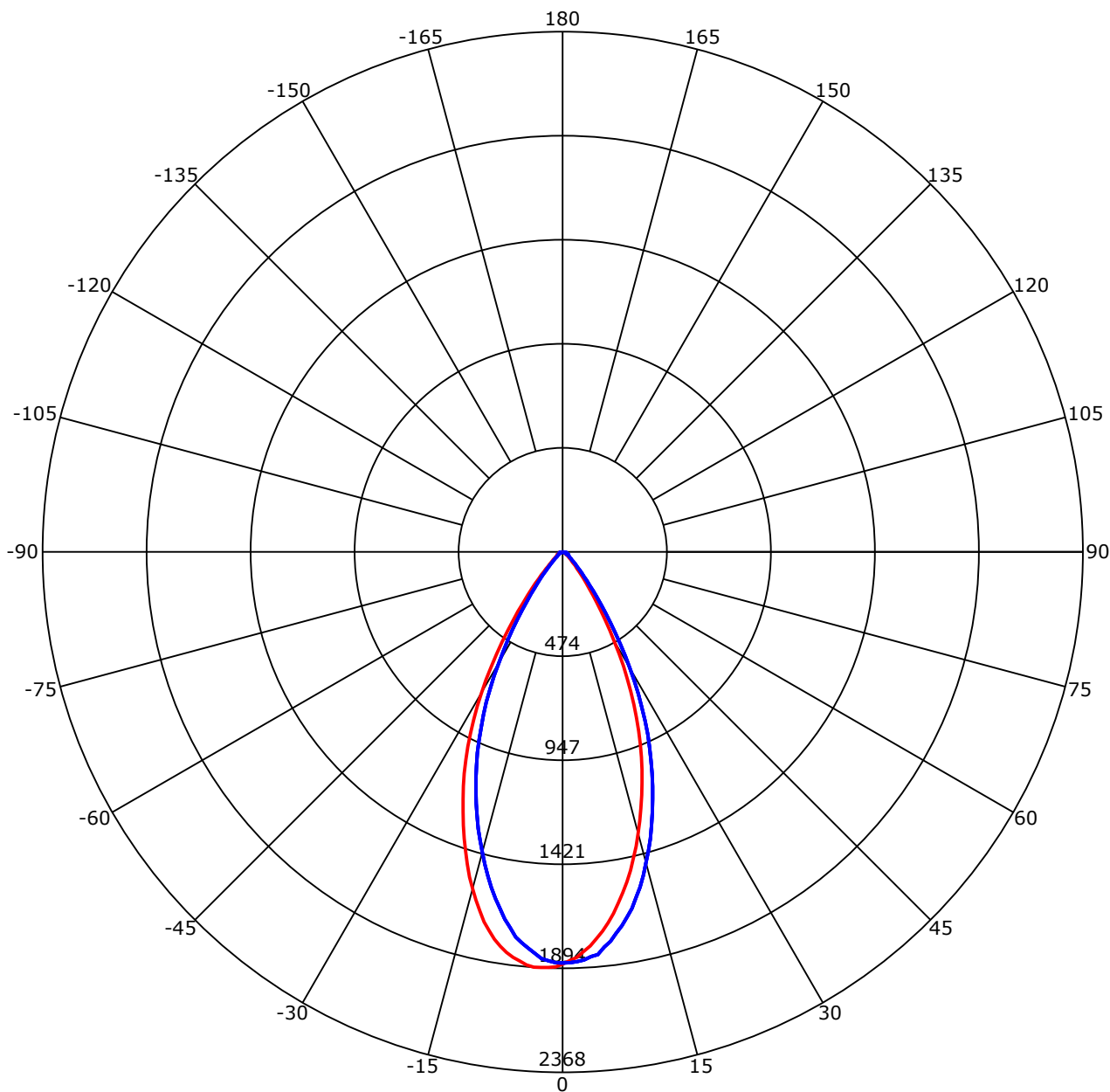
C Range: 0 - 360 Deg
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Test Speed: High
Temperature: 25
Operators: QC01
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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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: 2025/5/8 17:50:27

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

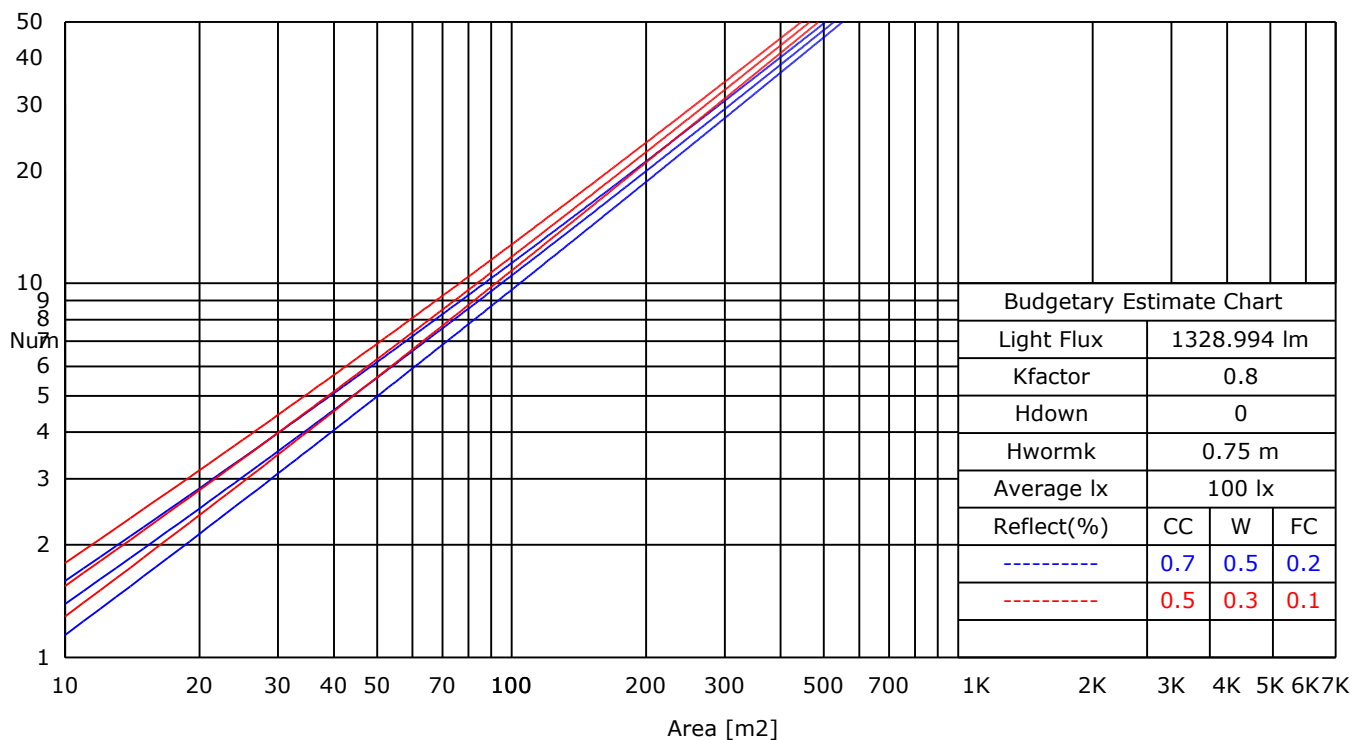
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UTILIZATION FACTORS TABLE

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	1.04	1.02	1.01	1.03	1.01	0.99	0.99	0.97	0.95	0.94	0.92	0.90	0.88	0.86	0.83	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	0.91	0.90	0.91	0.88	0.86	0.87	0.84	0.81	0.83	0.79	0.76	0.72
4	0.91	0.89	0.88	0.90	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	0.87	0.85	0.84	0.86	0.84	0.83	0.84	0.81	0.79	0.81	0.77	0.75	0.77	0.73	0.70	0.66
6	0.84	0.82	0.81	0.83	0.81	0.80	0.81	0.78	0.76	0.78	0.75	0.72	0.75	0.71	0.68	0.64
7	0.81	0.80	0.79	0.80	0.78	0.77	0.78	0.75	0.73	0.76	0.72	0.69	0.73	0.69	0.65	0.62
8	0.78	0.77	0.76	0.77	0.76	0.74	0.76	0.73	0.71	0.73	0.70	0.67	0.71	0.66	0.63	0.60
9	0.76	0.75	0.74	0.75	0.73	0.72	0.73	0.70	0.68	0.71	0.67	0.65	0.69	0.64	0.61	0.58
10	0.74	0.72	0.72	0.73	0.71	0.70	0.71	0.68	0.66	0.69	0.65	0.63	0.67	0.63	0.59	0.56

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



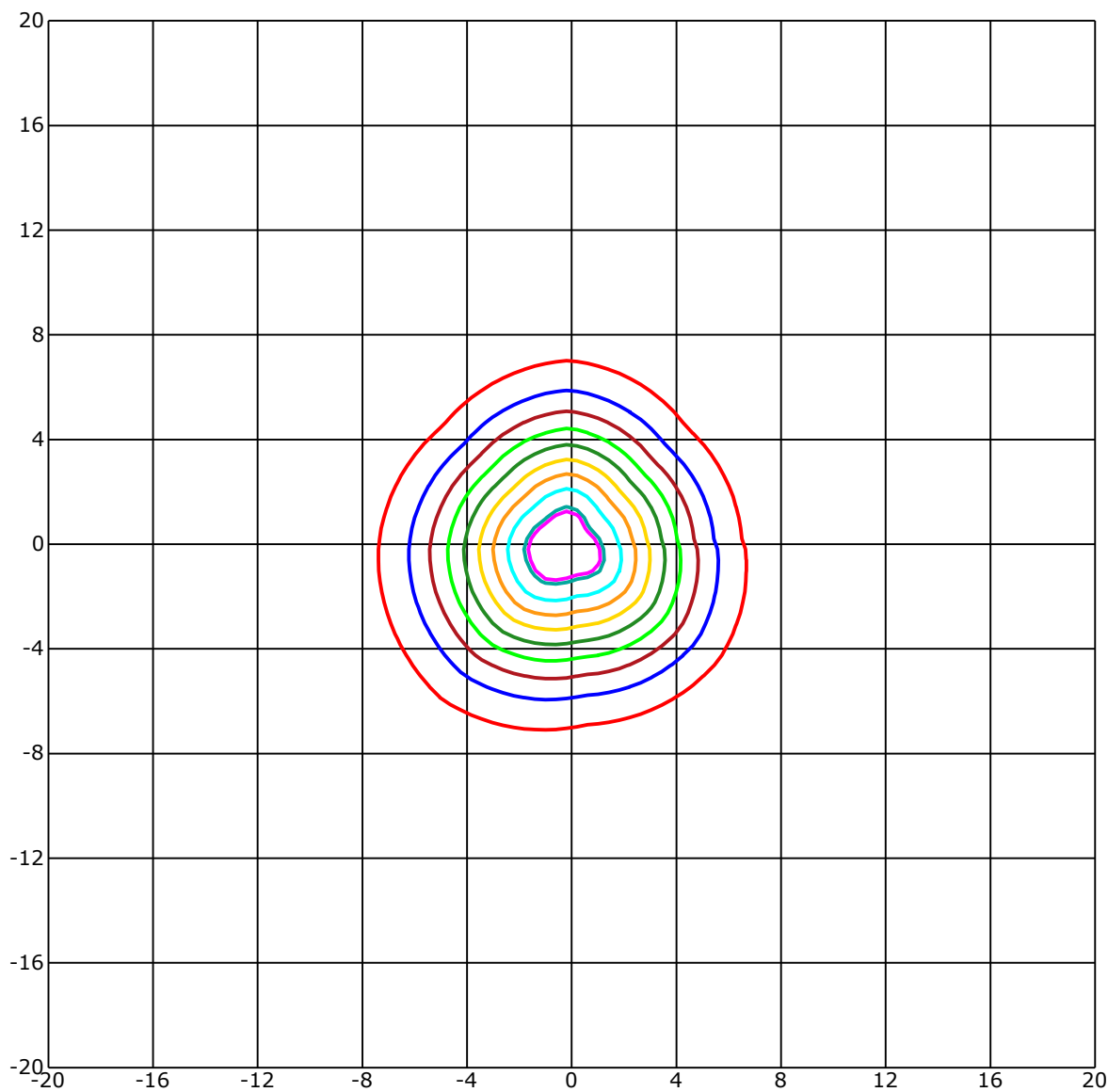
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Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/5/8 17:50:27

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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ISOLX DIAGRAM



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

17.375(92%Emax)	9.443(50%Emax)
16.997(90%Emax)	7.554(40%Emax)
15.109(80%Emax)	5.666(30%Emax)
13.22(70%Emax)	3.777(20%Emax)
11.331(60%Emax)	1.889(10%Emax)

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Test Date: 2025/5/8 17:50:27

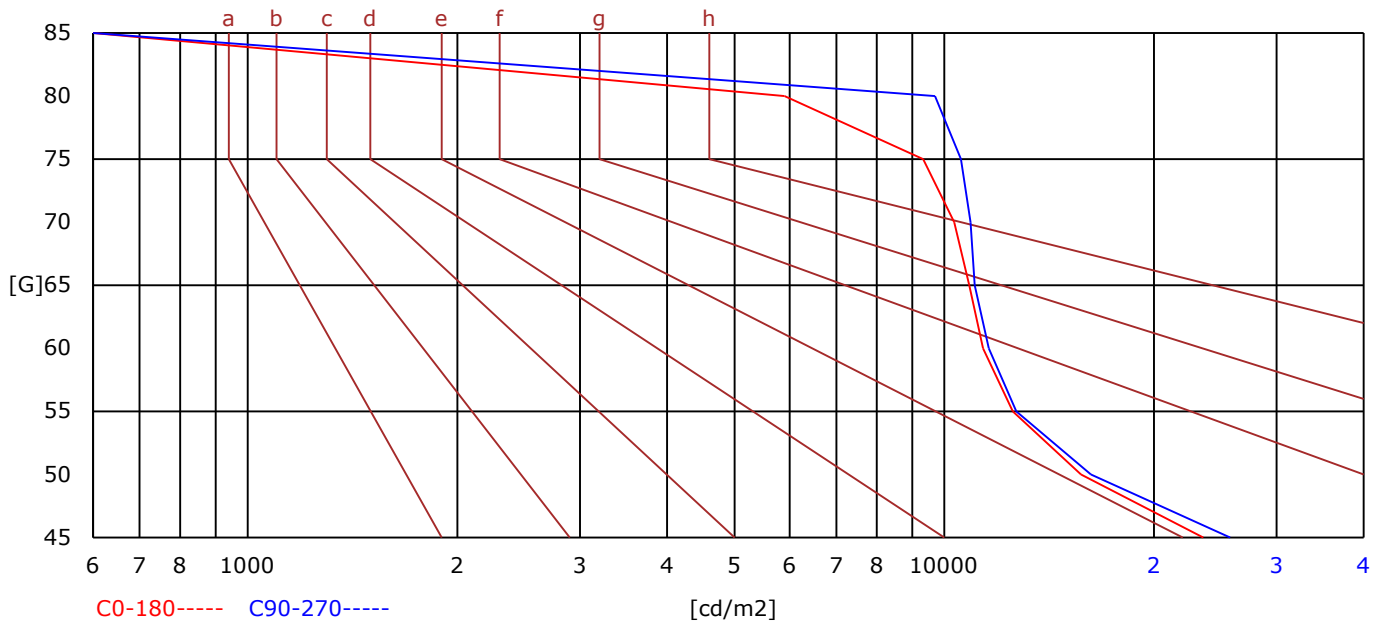
G Range: 0 - 90 Deg
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Test Distance: 6.87 m
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	23532	15715	12548	11364	10856	10337	9324	5898	0
C90	25734	16239	12695	11589	11055	10912	10571	9695	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



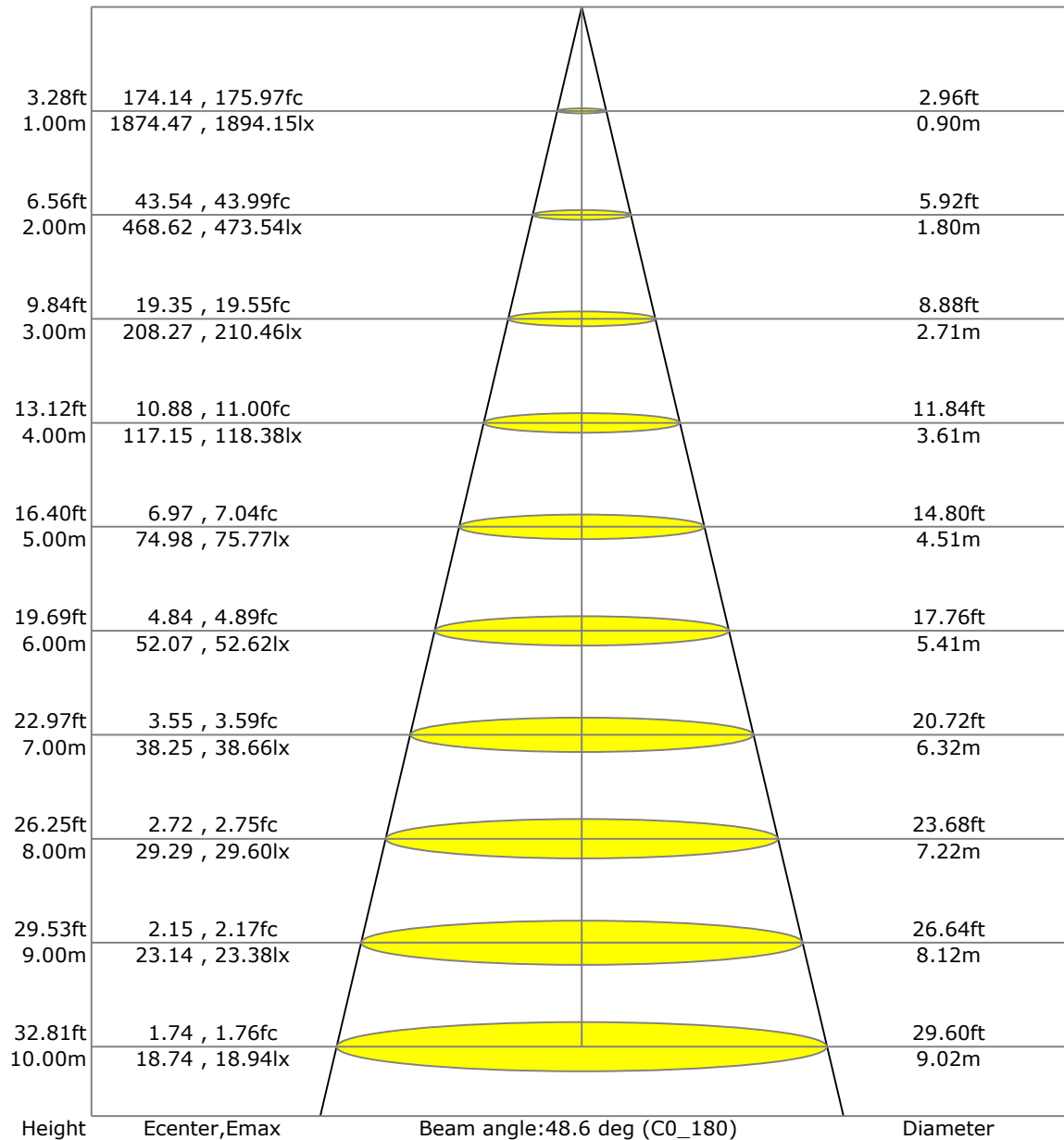
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Temperature: 25
Operators: QC01
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G Interval: 1.0 Deg
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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 25
 Operators: QC01
 Test Date: 2025/5/8 17:50:27

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 Y	Viewed Endwise					Viewed Crosswise				
2H 2H	12.98	13.04	13.18	13.22	13.47	13.34	13.39	13.54	13.58	13.82
3H	13.03	13.08	13.24	13.27	13.52	13.36	13.41	13.57	13.61	13.85
4H	13.03	13.08	13.24	13.28	13.53	13.35	13.41	13.57	13.60	13.85
6H	13.02	13.07	13.24	13.27	13.52	13.34	13.39	13.56	13.59	13.84
8H	13.01	13.06	13.23	13.27	13.52	13.33	13.38	13.55	13.59	13.84
12H	13.00	13.05	13.22	13.26	13.51	13.32	13.37	13.54	13.58	13.83
4H 2H	13.73	13.78	13.94	13.97	14.22	14.41	14.47	14.62	14.66	14.91
3H	13.86	13.92	14.09	14.12	14.38	14.53	14.58	14.75	14.78	15.04
4H	13.89	13.95	14.12	14.16	14.42	14.54	14.59	14.77	14.80	15.06
6H	13.90	13.95	14.13	14.17	14.43	14.53	14.58	14.76	14.80	15.06
8H	13.89	13.94	14.13	14.16	14.43	14.51	14.56	14.76	14.79	15.05
12H	13.87	13.92	14.12	14.15	14.42	14.50	14.55	14.75	14.78	15.05
8H 4H	13.89	13.94	14.11	14.14	14.40	14.85	14.90	15.07	15.11	15.36
6H	14.10	14.14	14.35	14.38	14.65	15.06	15.11	15.32	15.35	15.62
8H	14.09	14.13	14.35	14.38	14.65	15.05	15.09	15.31	15.33	15.61
12H	14.07	14.11	14.34	14.37	14.65	15.03	15.07	15.30	15.32	15.60
12H 4H	14.09	14.13	14.33	14.36	14.63	15.16	15.21	15.41	15.44	15.71
6H	14.08	14.13	14.34	14.37	14.65	15.15	15.19	15.41	15.44	15.71

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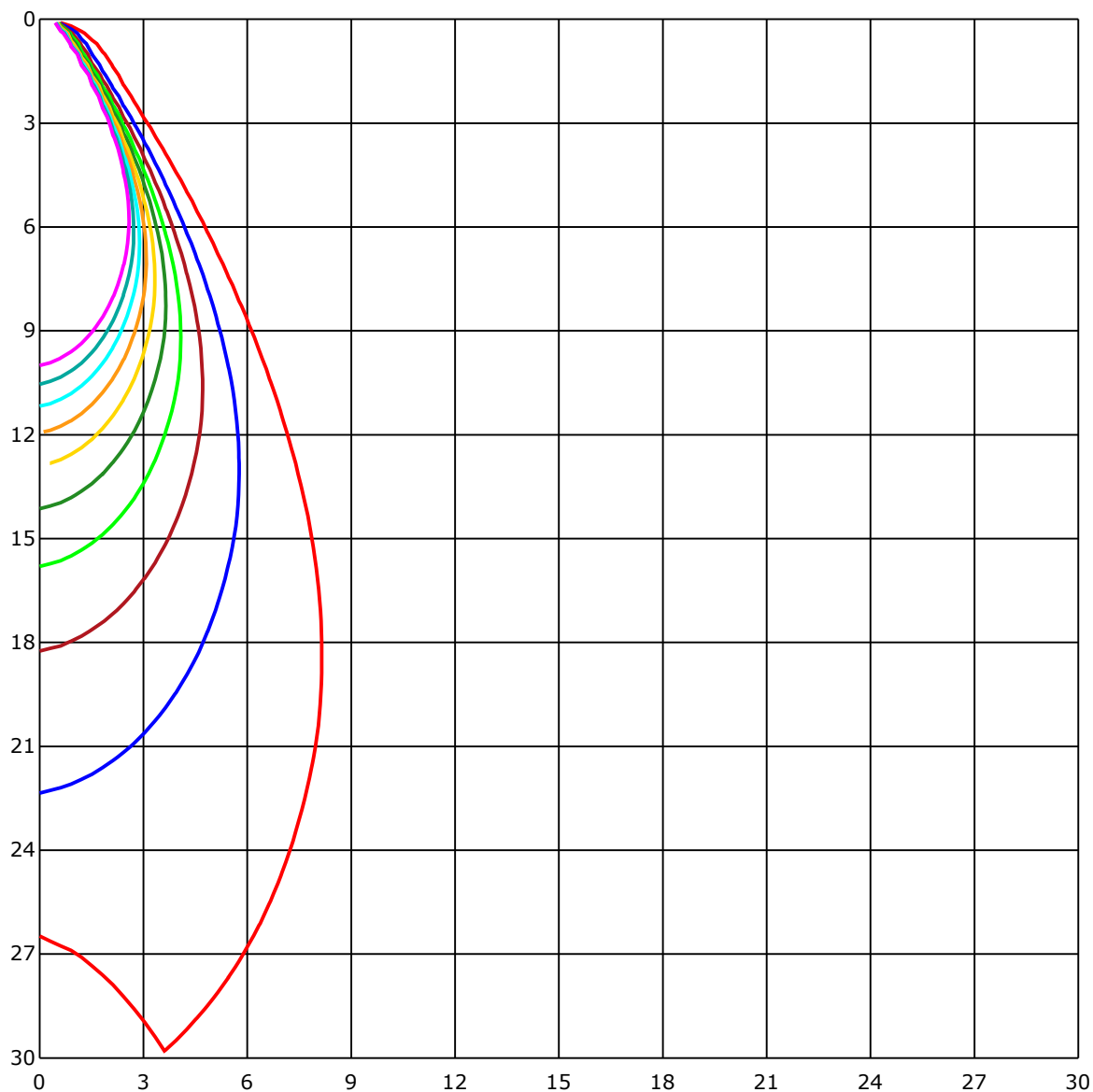
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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Remarks:

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SPACE ISOLX DIAGRAM



Unit of illumination:lx

18.764	9.382
16.888	7.506
15.011	5.629
13.135	3.753
11.258	1.876

C Range: 0 - 360 Deg
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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	1874.47	1853.09	1869.47	1877.97	1874.47	1853.09	1869.47	1877.97	1874.47	
G1	1858.1	1828.41	1868.57	1874.9	1887.36	1858.85	1869.04	1876.97	1858.1	
G2	1845.21	1808.59	1864.99	1866.5	1892.03	1869.09	1861.3	1869.94	1845.21	
G3	1820.29	1779.18	1858.14	1856.25	1892.6	1874.94	1852.2	1863.66	1820.29	
G4	1796.03	1752.0	1845.02	1845.16	1894.15	1876.22	1829.49	1854.32	1796.03	
G5	1765.73	1719.29	1838.08	1822.65	1886.32	1872.73	1809.62	1831.81	1765.73	
G6	1734.58	1683.7	1806.84	1796.13	1871.17	1868.86	1787.82	1812.36	1734.58	
G7	1699.37	1643.26	1784.89	1769.65	1858.1	1855.83	1764.17	1790.79	1699.37	
G8	1661.0	1603.04	1751.34	1735.76	1839.07	1841.67	1724.53	1762.33	1661.0	
G9	1617.39	1559.43	1722.12	1702.16	1816.33	1819.77	1690.45	1735.34	1617.39	
G10	1574.82	1517.33	1685.83	1658.5	1788.48	1798.86	1646.7	1696.87	1574.82	
G11	1528.76	1469.19	1652.51	1615.22	1755.11	1768.0	1606.3	1660.81	1528.76	
G12	1481.42	1421.71	1606.58	1570.24	1720.19	1740.29	1560.71	1616.02	1481.42	
G13	1430.77	1367.25	1564.81	1520.26	1676.15	1698.0	1514.12	1574.68	1430.77	
G14	1380.6	1316.42	1515.21	1466.27	1632.54	1658.41	1465.46	1527.15	1380.6	
G15	1326.23	1261.81	1463.77	1412.51	1585.16	1619.47	1415.67	1483.4	1326.23	
G16	1272.81	1210.51	1414.11	1355.59	1538.67	1575.1	1365.36	1433.46	1272.81	
G17	1218.34	1152.41	1362.86	1303.01	1484.48	1529.37	1315.38	1383.2	1218.34	
G18	1163.17	1098.32	1309.53	1241.61	1431.25	1480.19	1260.39	1334.3	1163.17	
G19	1109.08	1038.85	1252.37	1186.25	1378.43	1427.8	1210.51	1280.64	1109.08	
G20	1054.66	984.2	1196.63	1125.74	1324.11	1373.57	1155.38	1227.31	1054.66	
G21	1000.24	923.36	1141.69	1068.59	1265.02	1323.31	1101.95	1176.52	1000.24	
G22	944.08	864.32	1084.96	1014.03	1211.88	1271.44	1049.0	1125.6	944.08	
G23	884.42	802.82	1028.66	955.83	1157.79	1218.25	993.59	1072.64	884.42	
G24	824.39	741.65	972.35	894.1	1102.0	1163.17	938.18	1018.84	824.39	
G25	765.91	681.38	916.94	834.3	1042.53	1105.49	879.0	962.3	765.91	
G26	706.63	623.33	853.84	775.11	985.33	1051.31	822.74	907.55	706.63	
G27	646.88	564.62	791.96	713.19	923.31	992.69	766.05	848.36	646.88	
G28	588.36	508.26	731.93	650.14	864.22	934.83	703.56	791.44	588.36	
G29	528.79	453.04	672.7	589.3	801.64	872.53	644.0	730.42	528.79	
G30	470.55	401.65	612.33	527.28	739.15	813.58	582.69	669.68	470.55	
G31	416.56	353.36	554.23	468.85	678.17	752.04	526.15	607.75	416.56	
G32	366.44	309.99	495.52	413.26	614.41	691.86	471.31	546.3	366.44	
G33	319.66	270.53	441.24	363.09	552.82	632.39	420.1	487.97	319.66	
G34	276.81	236.13	390.41	314.76	494.53	573.87	368.32	429.96	276.81	
G35	239.05	205.5	342.74	272.14	439.17	517.09	321.27	377.06	239.05	
G36	204.6	178.83	299.46	232.78	387.11	462.72	278.74	327.4	204.6	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/5/8 17:50:27

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	175.67	155.37	260.67	198.65	338.35	410.99	242.21	281.81	175.67	
G38	151.74	135.31	225.98	168.87	293.0	363.94	210.03	242.12	151.74	
G39	130.64	118.23	196.15	144.61	253.68	319.48	181.61	207.9	130.64	
G40	112.47	103.88	170.43	123.99	219.75	279.5	156.41	178.31	112.47	
G41	96.94	91.04	148.62	106.67	190.49	243.54	134.65	152.97	96.94	
G42	83.87	80.23	130.17	92.13	164.67	211.73	115.63	131.54	83.87	
G43	73.3	70.89	114.31	80.14	142.68	184.07	100.06	114.31	73.3	
G44	64.05	62.87	100.67	69.99	124.36	160.94	87.27	99.26	64.05	
G45	56.35	55.98	89.44	61.21	108.6	140.93	76.08	87.08	56.35	
G46	50.12	50.03	79.86	53.99	95.34	124.41	66.64	76.51	50.12	
G47	44.37	44.79	71.69	47.76	84.34	109.59	58.9	68.01	44.37	
G48	40.12	40.78	64.23	42.71	75.14	96.99	51.78	60.27	40.12	
G49	36.15	36.96	58.43	38.56	66.93	86.23	45.78	54.18	36.15	
G50	33.18	33.98	53.05	35.11	59.99	76.88	41.11	48.8	33.18	
G51	30.73	31.24	48.33	32.33	54.28	69.1	37.05	44.88	30.73	
G52	28.6	29.17	44.51	29.78	49.27	62.49	33.6	41.44	28.6	
G53	26.9	27.28	41.2	27.7	45.21	56.45	30.91	38.7	26.9	
G54	25.16	25.63	38.61	26.01	41.82	51.4	28.46	36.2	25.16	
G55	23.79	24.21	36.2	24.5	38.94	46.72	26.62	34.26	23.79	
G56	22.65	22.94	34.12	23.08	36.34	43.23	24.83	32.19	22.65	
G57	21.52	21.71	32.19	22.14	34.03	39.83	23.6	30.63	21.52	
G58	20.81	20.77	30.68	21.1	32.19	37.1	22.32	29.4	20.81	
G59	19.78	19.82	29.45	20.29	30.54	34.69	21.24	28.22	19.78	
G60	19.07	19.11	27.99	19.49	29.03	32.66	20.01	27.0	19.07	
G61	18.27	18.31	27.0	18.6	27.56	30.87	19.02	25.91	18.27	
G62	17.79	17.6	25.68	17.89	26.48	29.4	18.17	24.87	17.79	
G63	16.85	16.94	24.64	16.99	25.49	27.94	17.42	24.02	16.85	
G64	16.24	16.19	23.69	16.38	24.54	26.71	16.57	23.13	16.24	
G65	15.67	15.43	22.75	15.72	23.41	25.3	15.91	22.23	15.67	
G66	14.96	14.63	21.95	15.06	22.42	24.21	15.29	21.38	14.96	
G67	14.35	13.73	21.0	14.49	21.47	22.94	14.68	20.72	14.35	
G68	13.88	13.22	20.06	13.73	20.72	22.18	13.88	19.87	13.88	
G69	13.12	12.51	19.26	13.4	19.82	21.14	13.45	19.16	13.12	
G70	12.55	11.89	18.5	12.55	18.93	20.34	12.65	18.45	12.55	
G71	11.89	11.0	17.75	11.89	18.27	19.4	12.04	17.84	11.89	
G72	11.33	10.43	16.94	11.28	17.51	18.69	11.37	17.04	11.33	
G73	10.52	9.68	16.24	10.57	16.71	17.89	10.67	16.47	10.52	

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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:

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: 2025/5/8 17:50:27

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