

Report No.:

Test Time: 2025/1/7 16:13:26

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP115CT075H57-38°-10W
Lamp Type:
Luminous Width: 74 mm
Luminous Length: 74 mm
Luminous Height: 53 mm

Voltage(V): 228.00 V
Current(A): 0.0520 A
Power(W): 10.84 W
Power Factor: 0.9040
Lamp Luminous Flux: 1128.02

Photometric Results

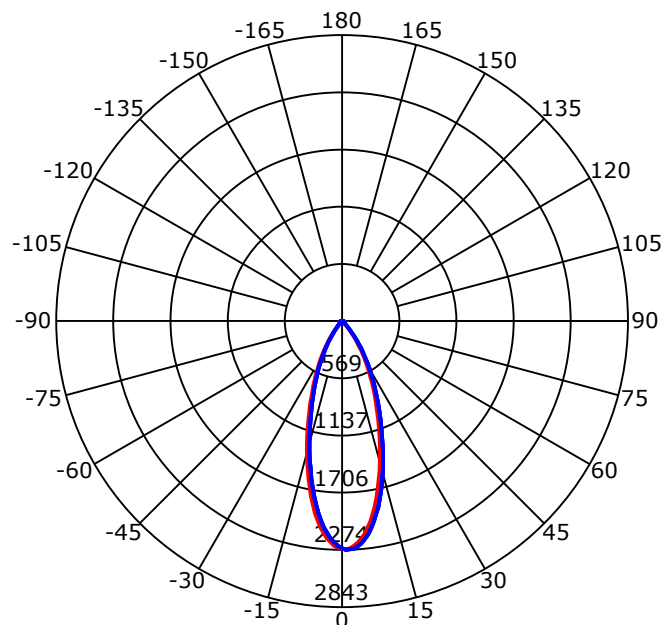
CIE Class: Direct
Luminaire Luminous Flux: 1128.019 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 104.07 lm/W
Beam Angle(50%) C0-180,C90-270: 36.5,36.5
Field Angle(10%) C0-180,C90-270: 71.1,71.4
S/MH C0-180,C90-270: 0.611,0.611

Max. Intensity: 2274.10 cd
Max.Intensity Angle: C=90 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 2265.28 cd
Effective Luminous Flux: 1007.18 lm
ERP(ϕ use)(120deg): 1110.25 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 36.5 deg,36.5 deg

C0-180 — C90-270 —

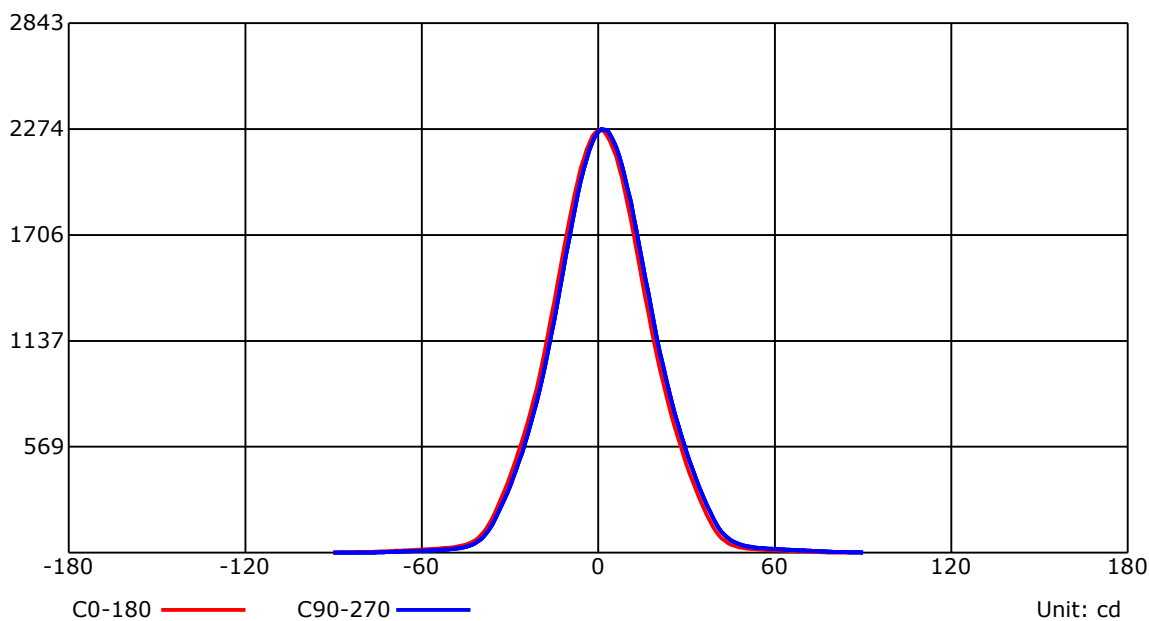
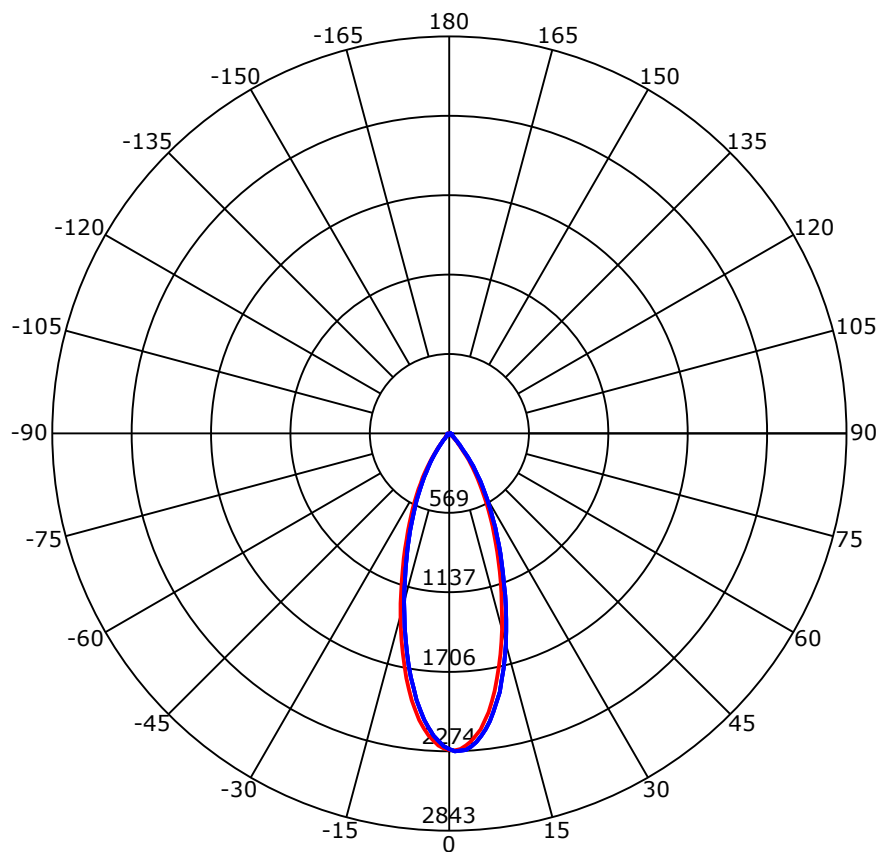
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/1/7 16:13:26

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 m
Remarks:

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Luminous Intensity Distribution Curve



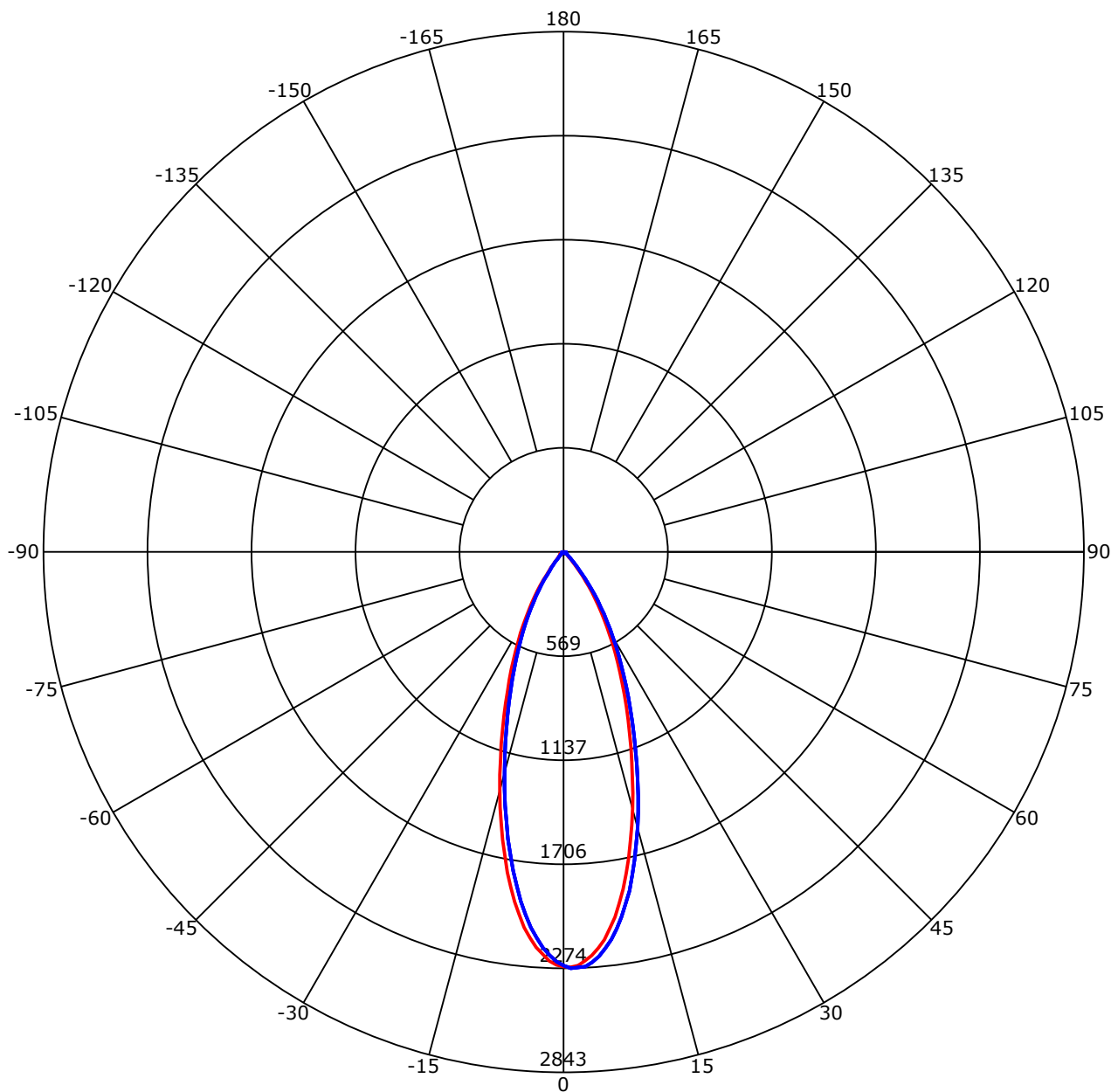
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/1/7 16:13:26

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 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: 2025/1/7 16:13:26

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 m
Remarks:

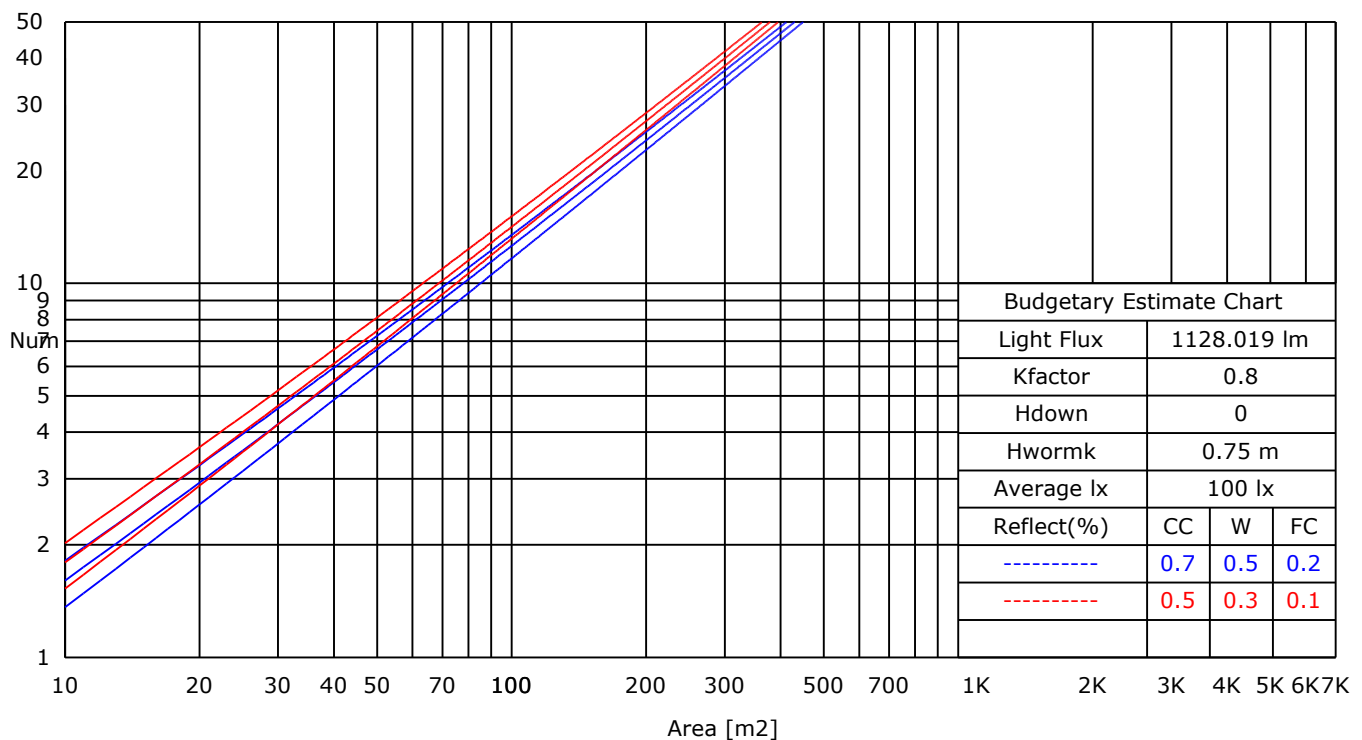
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UTILIZATION FACTORS TABLE

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	1.01	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	0.80	0.75
2	0.96	0.94	0.93	0.95	0.93	0.91	0.92	0.89	0.87	0.88	0.85	0.82	0.83	0.80	0.77	0.72
3	0.92	0.90	0.89	0.91	0.89	0.87	0.89	0.86	0.83	0.85	0.82	0.79	0.81	0.77	0.74	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	0.71	0.67
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	0.77	0.72	0.69	0.65
6	0.83	0.82	0.81	0.82	0.80	0.79	0.80	0.77	0.75	0.78	0.74	0.71	0.75	0.70	0.67	0.63
7	0.81	0.79	0.78	0.80	0.78	0.76	0.78	0.75	0.73	0.75	0.72	0.69	0.73	0.68	0.65	0.61
8	0.78	0.77	0.76	0.78	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	0.74	0.72	0.74	0.71	0.69	0.71	0.68	0.65	0.69	0.65	0.62	0.58
10	0.74	0.73	0.72	0.74	0.72	0.71	0.72	0.69	0.67	0.70	0.66	0.64	0.67	0.63	0.60	0.57

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



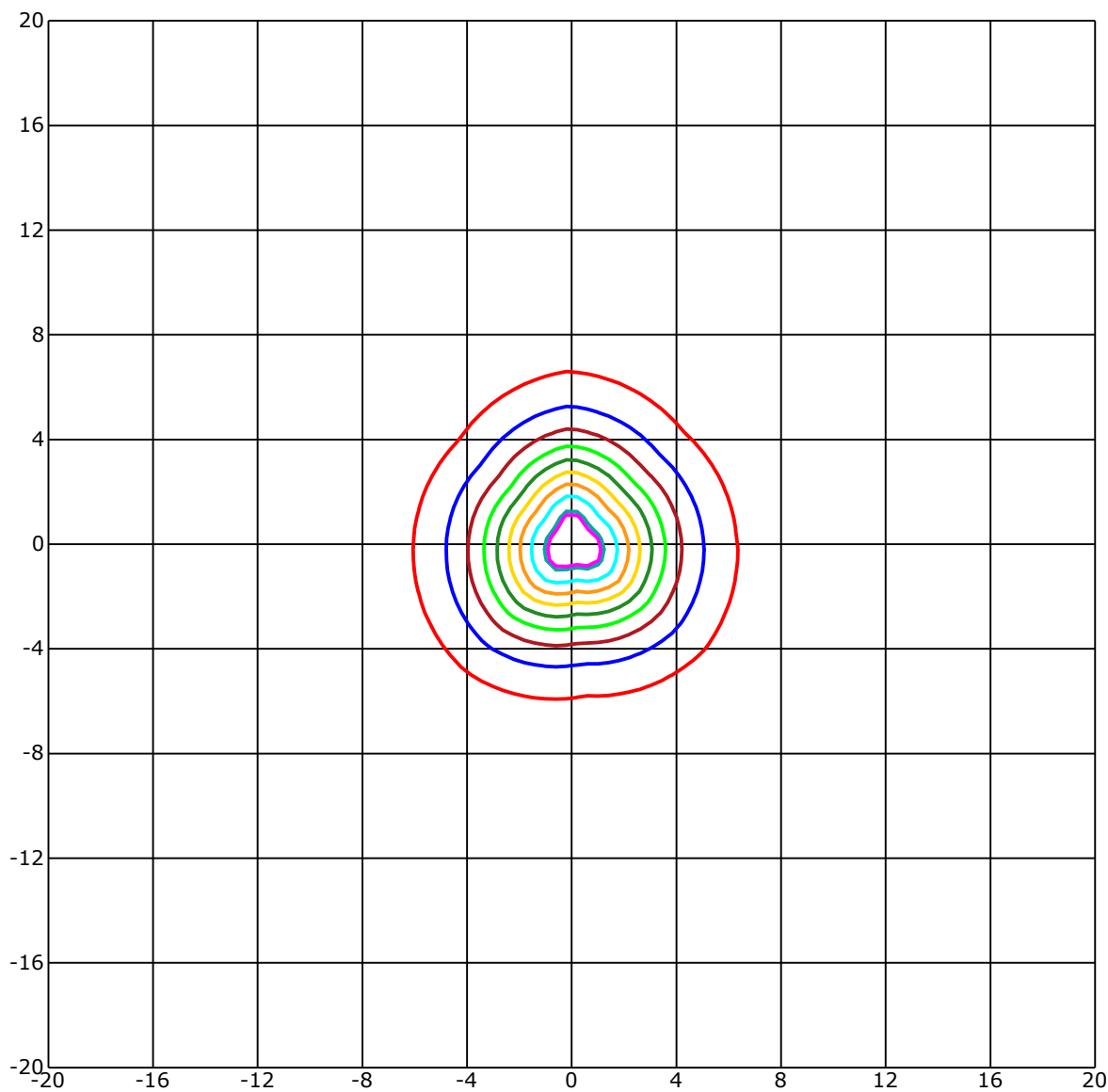
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Temperature: 25
Operators: QC01
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 m
Remarks:

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ISOLX DIAGRAM



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/1/7 16:13:26

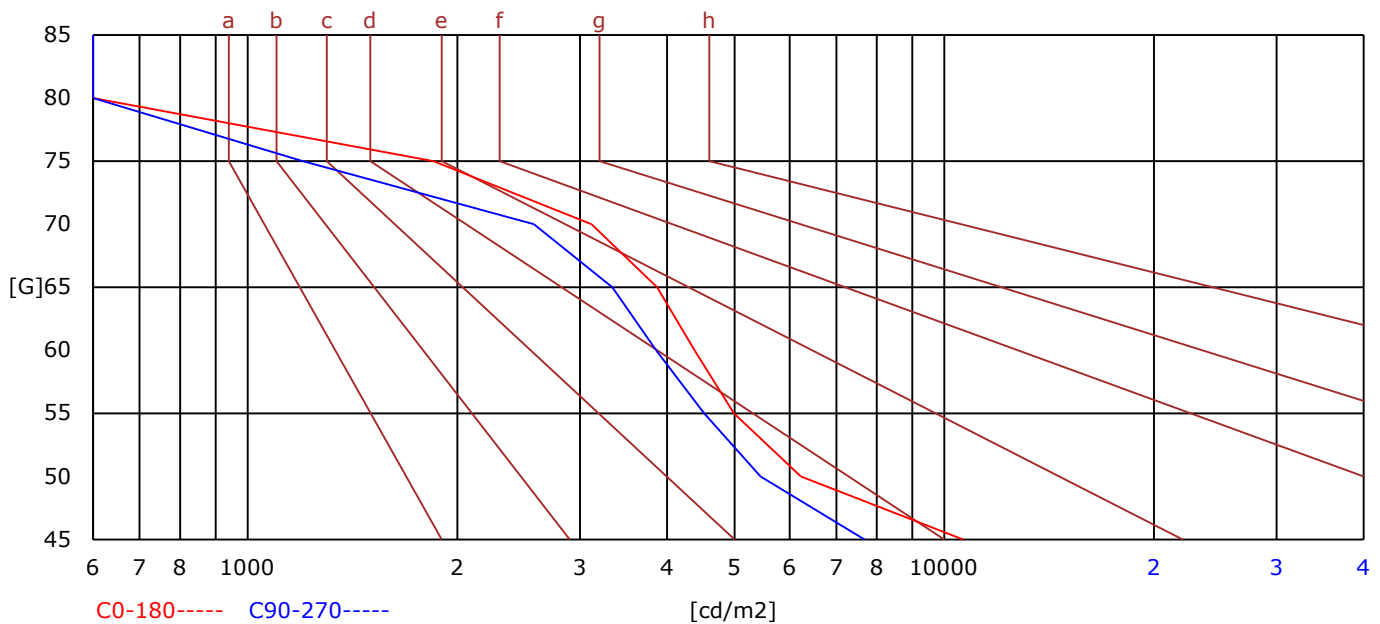
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Humidity: 60
Test Distance: 6.78 m
Remarks:

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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	10649	6229	4991	4382	3873	3117	1849	338	0
C90	7681	5446	4522	3861	3337	2577	1200	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



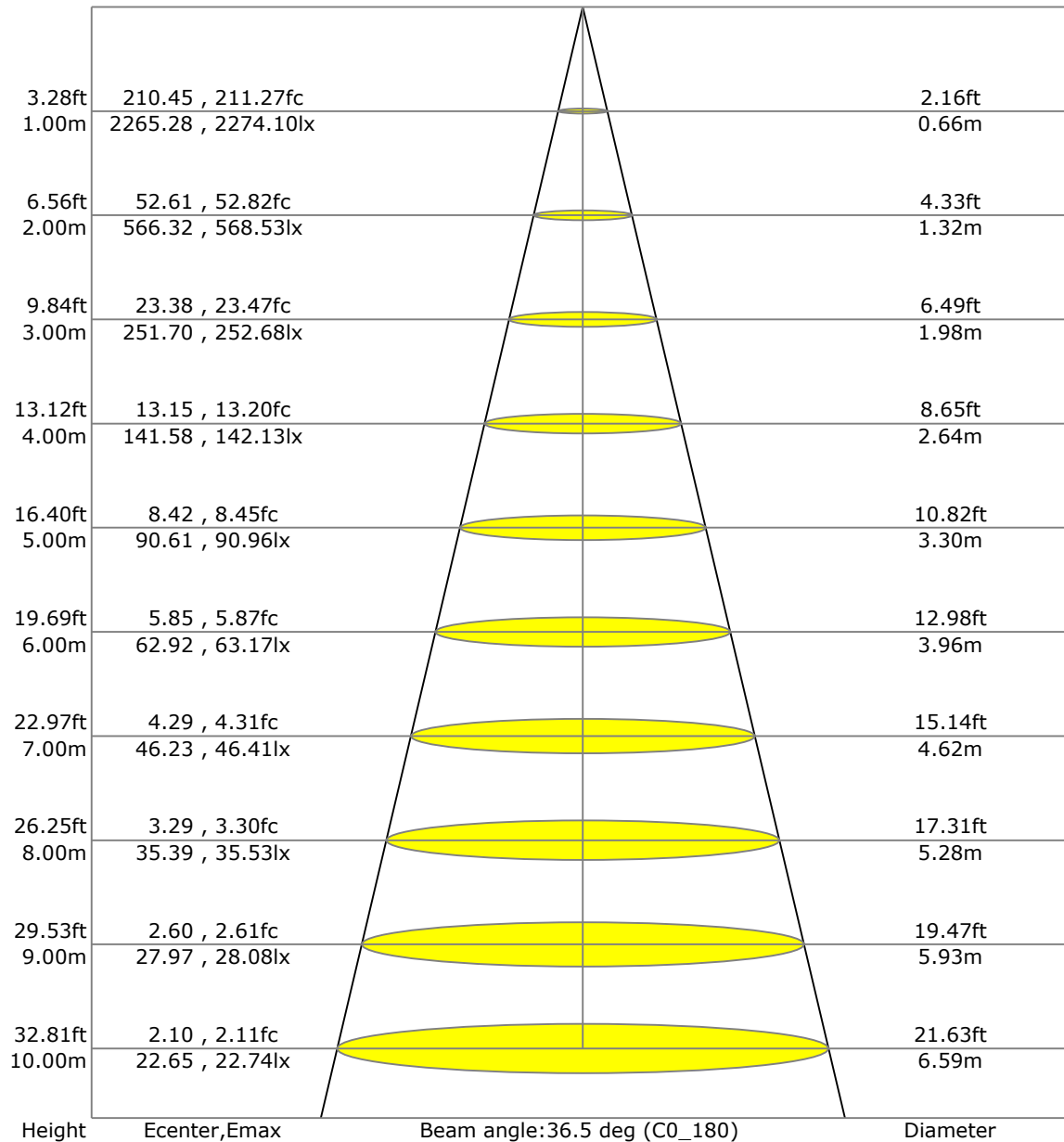
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G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 m
Remarks:

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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: 2025/1/7 16:13:26

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 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	12.29	12.35	12.49	12.53	12.78	12.48	12.53	12.68	12.71	12.96
3H	12.29	12.35	12.50	12.54	12.79	12.46	12.52	12.67	12.71	12.96
4H	12.28	12.34	12.49	12.53	12.78	12.45	12.50	12.66	12.70	12.95
6H	12.27	12.32	12.48	12.52	12.77	12.43	12.49	12.65	12.69	12.94
8H	12.26	12.31	12.48	12.52	12.77	12.43	12.48	12.64	12.68	12.93
12H	12.25	12.30	12.47	12.51	12.76	12.42	12.47	12.64	12.68	12.93
4H 2H	12.48	12.54	12.69	12.73	12.98	12.89	12.95	13.10	13.14	13.39
3H	12.49	12.55	12.71	12.75	13.01	12.90	12.95	13.12	13.16	13.41
4H	12.48	12.53	12.71	12.75	13.01	12.88	12.93	13.11	13.15	13.40
6H	12.46	12.51	12.70	12.73	13.00	12.86	12.91	13.09	13.13	13.39
8H	12.45	12.50	12.69	12.73	12.99	12.84	12.90	13.09	13.12	13.39
12H	12.44	12.49	12.69	12.72	12.99	12.83	12.88	13.08	13.11	13.38
8H 4H	12.47	12.52	12.69	12.72	12.98	12.99	13.04	13.21	13.25	13.50
6H	12.43	12.48	12.69	12.72	12.99	12.97	13.01	13.22	13.25	13.52
8H	12.42	12.46	12.68	12.71	12.99	12.95	13.00	13.21	13.24	13.52
12H	12.40	12.45	12.67	12.70	12.98	12.93	12.98	13.20	13.23	13.51
12H 4H	12.44	12.49	12.69	12.72	12.99	13.04	13.09	13.29	13.32	13.59
6H	12.42	12.46	12.68	12.71	12.98	13.02	13.07	13.28	13.31	13.59

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Humidity: 60
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ZONAL LUMINOUS FLUX TABLE

[illegible]

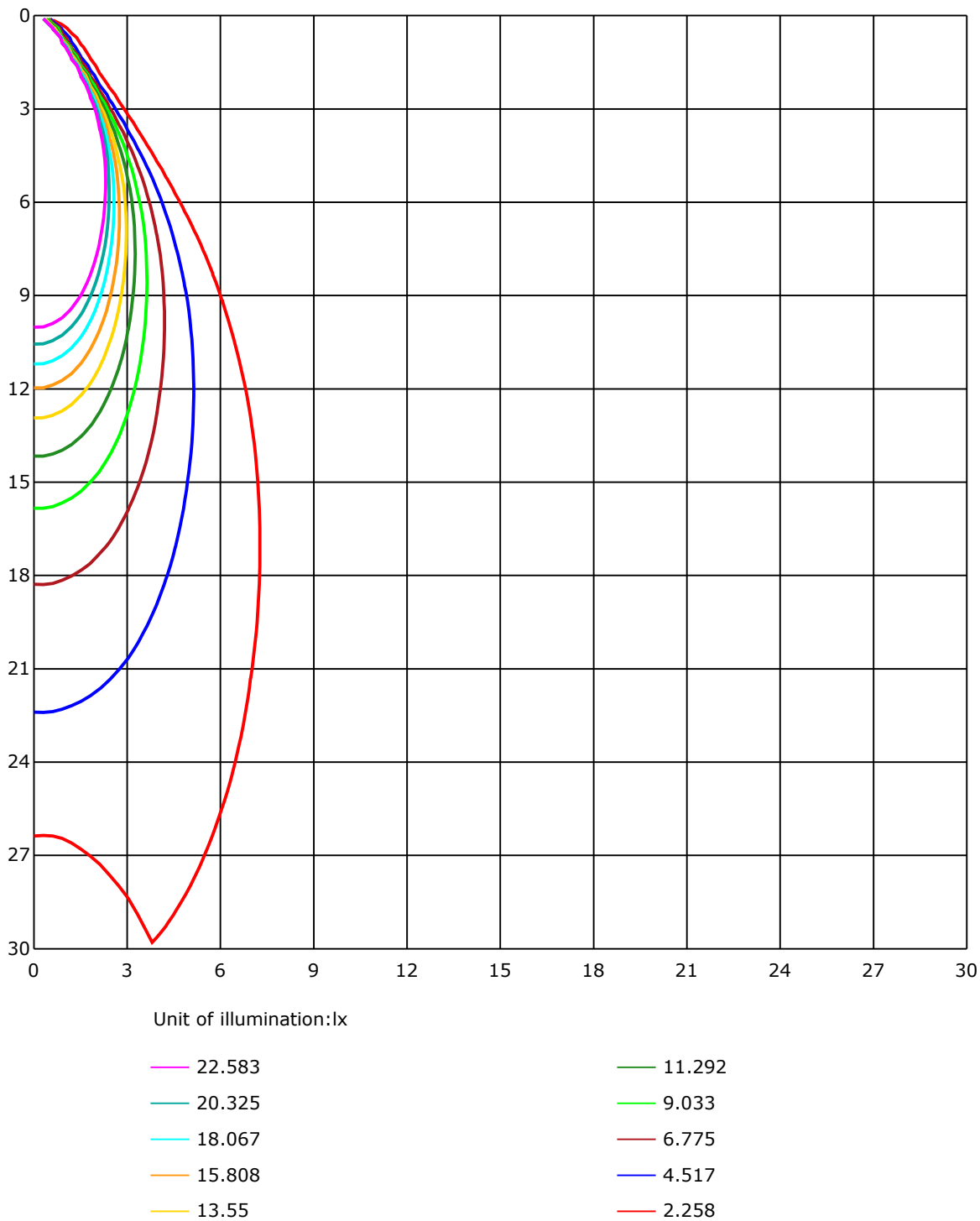
C Range: 0 - 360 Deg
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Test Speed: High
Temperature: 25
Operators: QC01
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
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SPACE ISOLX DIAGRAM



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 m
Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	2265.28	2255.53	2258.01	2257.14	2265.28	2255.53	2258.01	2257.14	2265.28	
G1	2268.31	2240.32	2274.1	2238.34	2255.49	2264.54	2237.7	2266.79	2268.31	
G2	2259.67	2215.31	2270.66	2206.9	2235.81	2256.27	2203.54	2268.77	2259.67	
G3	2236.41	2185.2	2268.22	2165.62	2199.86	2241.74	2164.61	2259.26	2236.41	
G4	2209.56	2137.85	2245.28	2118.59	2164.61	2217.29	2112.75	2239.49	2209.56	
G5	2171.82	2090.74	2216.0	2065.08	2114.82	2181.84	2059.11	2207.73	2171.82	
G6	2129.62	2028.63	2177.25	2003.53	2062.01	2135.05	1992.0	2172.24	2129.62	
G7	2069.73	1969.93	2133.26	1932.42	1994.48	2083.2	1921.8	2121.3	2069.73	
G8	2014.15	1899.69	2079.47	1855.24	1929.52	2020.91	1842.28	2068.35	2014.15	
G9	1942.95	1827.11	2018.56	1775.94	1852.71	1953.8	1764.18	2002.89	1942.95	
G10	1869.31	1747.67	1951.5	1693.52	1776.77	1881.35	1679.04	1938.95	1869.31	
G11	1788.45	1666.58	1885.95	1606.18	1688.42	1802.56	1595.79	1859.97	1788.45	
G12	1707.86	1583.61	1802.05	1518.57	1606.0	1721.75	1505.51	1779.71	1707.86	
G13	1621.31	1498.89	1724.96	1430.12	1518.98	1638.27	1422.08	1695.36	1621.31	
G14	1538.88	1414.36	1640.02	1343.66	1437.39	1553.87	1334.33	1612.16	1538.88	
G15	1452.69	1331.89	1559.52	1258.52	1348.62	1470.81	1250.2	1520.91	1452.69	
G16	1369.17	1249.74	1475.54	1175.0	1265.65	1385.35	1167.55	1435.23	1369.17	
G17	1285.19	1172.84	1392.34	1094.46	1180.56	1302.19	1088.95	1348.94	1285.19	
G18	1202.35	1091.61	1308.03	1018.43	1102.74	1220.55	1010.66	1262.75	1202.35	
G19	1126.73	1019.72	1226.12	945.85	1024.87	1139.65	941.29	1178.86	1126.73	
G20	1052.81	951.73	1145.49	878.69	951.55	1065.09	872.99	1098.19	1052.81	
G21	981.43	886.04	1072.4	816.22	882.73	992.55	809.18	1024.41	981.43	
G22	913.9	821.96	1001.79	757.84	818.15	923.96	747.49	955.68	913.9	
G23	849.08	763.08	934.08	700.24	758.43	856.99	691.46	888.52	849.08	
G24	787.48	702.72	869.54	645.9	702.26	793.46	635.84	825.41	787.48	
G25	728.0	648.43	807.66	593.18	649.35	734.16	584.44	765.93	728.0	
G26	673.39	595.98	748.0	545.23	599.29	677.57	534.06	709.38	673.39	
G27	619.75	545.87	691.46	499.17	548.13	623.01	488.23	657.62	619.75	
G28	570.19	496.83	638.27	452.7	501.42	571.16	442.91	607.33	570.19	
G29	519.49	451.64	590.37	409.21	455.68	523.35	400.11	559.67	519.49	
G30	472.0	408.29	540.27	368.53	412.15	475.36	358.0	512.5	472.0	
G31	425.9	369.31	493.33	328.81	369.31	430.08	319.57	466.81	425.9	
G32	384.25	332.95	446.58	291.81	329.18	387.65	282.71	422.5	384.25	
G33	343.71	298.33	404.34	255.91	291.9	347.38	249.15	379.88	343.71	
G34	305.18	265.1	363.38	221.15	256.92	309.0	217.11	339.94	305.18	
G35	269.24	232.78	326.01	186.03	221.11	274.98	183.97	302.1	269.24	
G36	234.81	198.77	289.51	153.72	188.06	240.09	153.07	265.51	234.81	

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Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	199.59	167.6	253.84	125.13	156.94	206.31	126.6	227.59	199.59	
G38	166.59	140.2	217.98	101.87	131.24	175.65	104.49	191.64	166.59	
G39	137.58	117.08	185.39	83.57	109.82	148.98	86.19	159.19	137.58	
G40	113.45	98.19	156.61	68.54	92.49	126.69	71.66	131.7	113.45	
G41	93.27	82.01	131.65	56.91	78.24	107.7	59.76	108.81	93.27	
G42	76.63	68.4	110.32	47.12	66.61	91.29	50.11	90.56	76.63	
G43	63.21	57.46	93.45	39.58	57.32	77.96	41.97	75.57	63.21	
G44	52.86	48.73	79.48	34.02	50.11	66.79	35.76	63.9	52.86	
G45	43.99	41.23	68.08	29.74	43.95	57.64	31.12	54.84	43.99	
G46	37.65	35.44	58.93	26.57	39.39	50.38	27.26	47.49	37.65	
G47	32.5	30.84	51.58	23.95	35.86	44.18	24.59	41.92	32.5	
G48	28.78	27.21	45.0	22.06	32.91	39.35	22.2	37.65	28.78	
G49	25.42	24.27	40.22	20.41	30.52	35.44	20.59	34.15	25.42	
G50	23.17	21.93	36.32	19.17	28.68	32.45	19.03	31.72	23.17	
G51	21.28	20.46	33.24	18.02	26.98	30.02	17.7	29.56	21.28	
G52	19.95	18.85	30.75	17.01	25.47	27.95	16.41	27.95	19.95	
G53	18.62	17.79	28.5	15.95	24.09	26.29	15.58	26.25	18.62	
G54	17.61	16.55	26.75	15.17	23.08	24.91	14.62	25.14	17.61	
G55	16.55	15.68	25.37	14.2	21.88	23.49	13.84	23.81	16.55	
G56	15.58	14.89	24.0	13.42	20.59	22.29	13.01	22.8	15.58	
G57	14.71	14.11	22.8	12.73	19.58	21.05	12.32	21.7	14.71	
G58	13.88	13.38	21.56	12.0	18.76	20.18	11.58	20.55	13.88	
G59	13.24	12.73	20.55	11.35	17.65	19.12	10.94	19.63	13.24	
G60	12.55	12.0	19.58	10.57	17.1	18.25	10.3	18.66	12.55	
G61	11.86	11.35	18.76	9.93	16.09	17.33	9.65	17.93	11.86	
G62	11.35	10.71	17.88	9.38	15.4	16.5	9.06	17.1	11.35	
G63	10.71	10.16	17.01	8.78	14.43	15.58	8.6	16.13	10.71	
G64	10.02	9.42	16.23	8.27	13.7	14.85	7.91	15.35	10.02	
G65	9.38	8.96	15.45	7.72	12.96	14.11	7.45	14.53	9.38	
G66	8.78	8.14	14.62	7.08	12.32	13.38	6.76	13.88	8.78	
G67	8.18	7.68	14.02	6.48	11.54	12.64	6.25	13.15	8.18	
G68	7.77	6.99	13.19	5.98	10.85	11.86	5.75	12.41	7.77	
G69	6.99	6.44	12.64	5.38	10.16	11.31	5.29	11.68	6.99	
G70	6.67	5.84	11.77	4.83	9.56	10.48	4.5	11.03	6.67	
G71	5.93	5.24	11.03	4.18	8.92	9.84	3.95	10.39	5.93	
G72	5.29	4.46	10.25	3.59	8.18	9.15	3.54	9.7	5.29	
G73	4.69	3.86	9.7	2.99	7.45	8.6	2.9	8.96	4.69	

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G Range: 0 - 90 Deg
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Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 m
Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

[illegible]

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 m
Remarks: