

Report No.:

Test Time: 2025/1/7 14:28:30

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP115CT075H78-60°-15W
Lamp Type:
Luminous Width: 74 mm
Luminous Length: 74 mm
Luminous Height: 57 mm

Voltage(V): 228.00 V
Current(A): 0.0710 A
Power(W): 15.34 W
Power Factor: 0.9450
Lamp Luminous Flux: 1496.38

Photometric Results

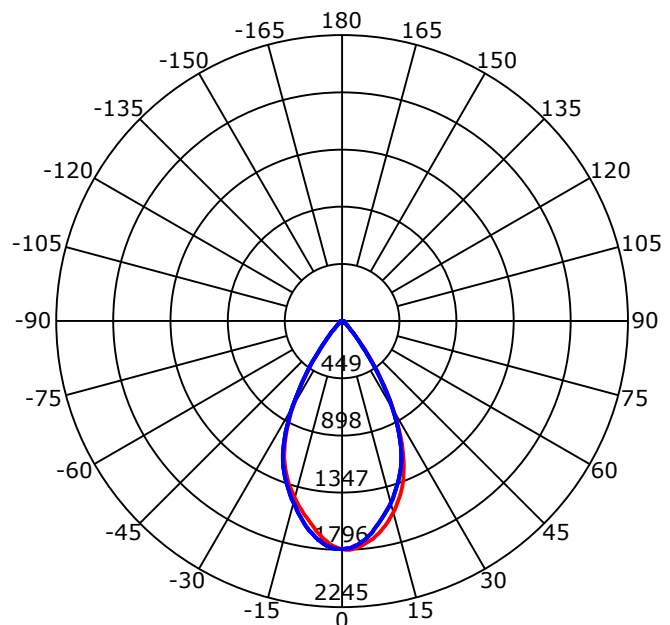
CIE Class: Direct
Luminaire Luminous Flux: 1496.383 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 97.53 lm/W
Beam Angle(50%) C0-180,C90-270: 56.5,56.6
Field Angle(10%) C0-180,C90-270: 82.4,82.0
S/MH C0-180,C90-270: 0.890,0.890

Max. Intensity: 1796.35 cd
Max.Intensity Angle: C=0 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 1791.62 cd
Effective Luminous Flux: 1379.04 lm
ERP(ϕ use)(120deg): 1473.43 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 56.5 deg,56.6 deg

C0-180 — C90-270 —

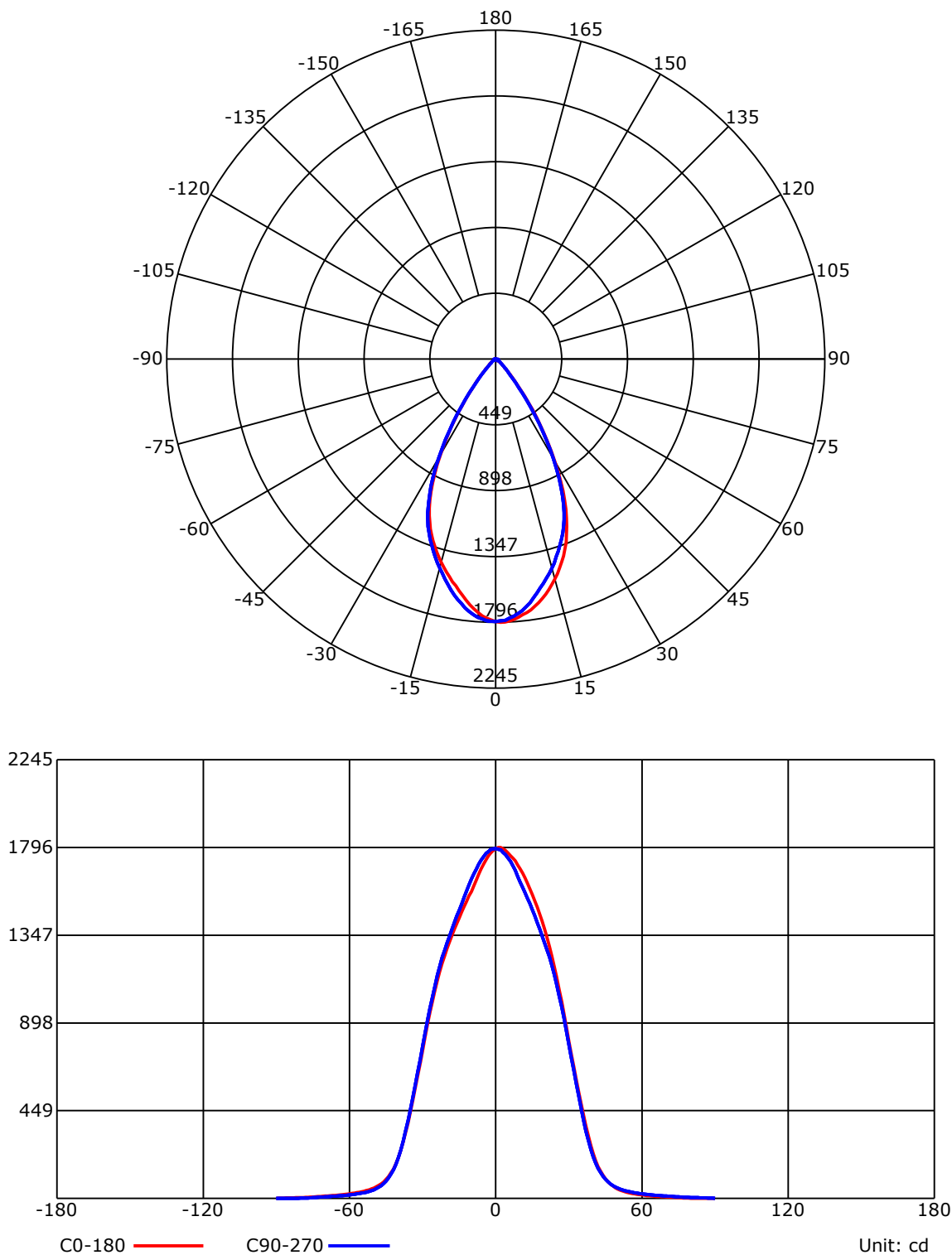
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/1/7 14:28:30

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

Report No.:

Test Time: 2025/1/7 14:28:30

Luminous Intensity Distribution Curve



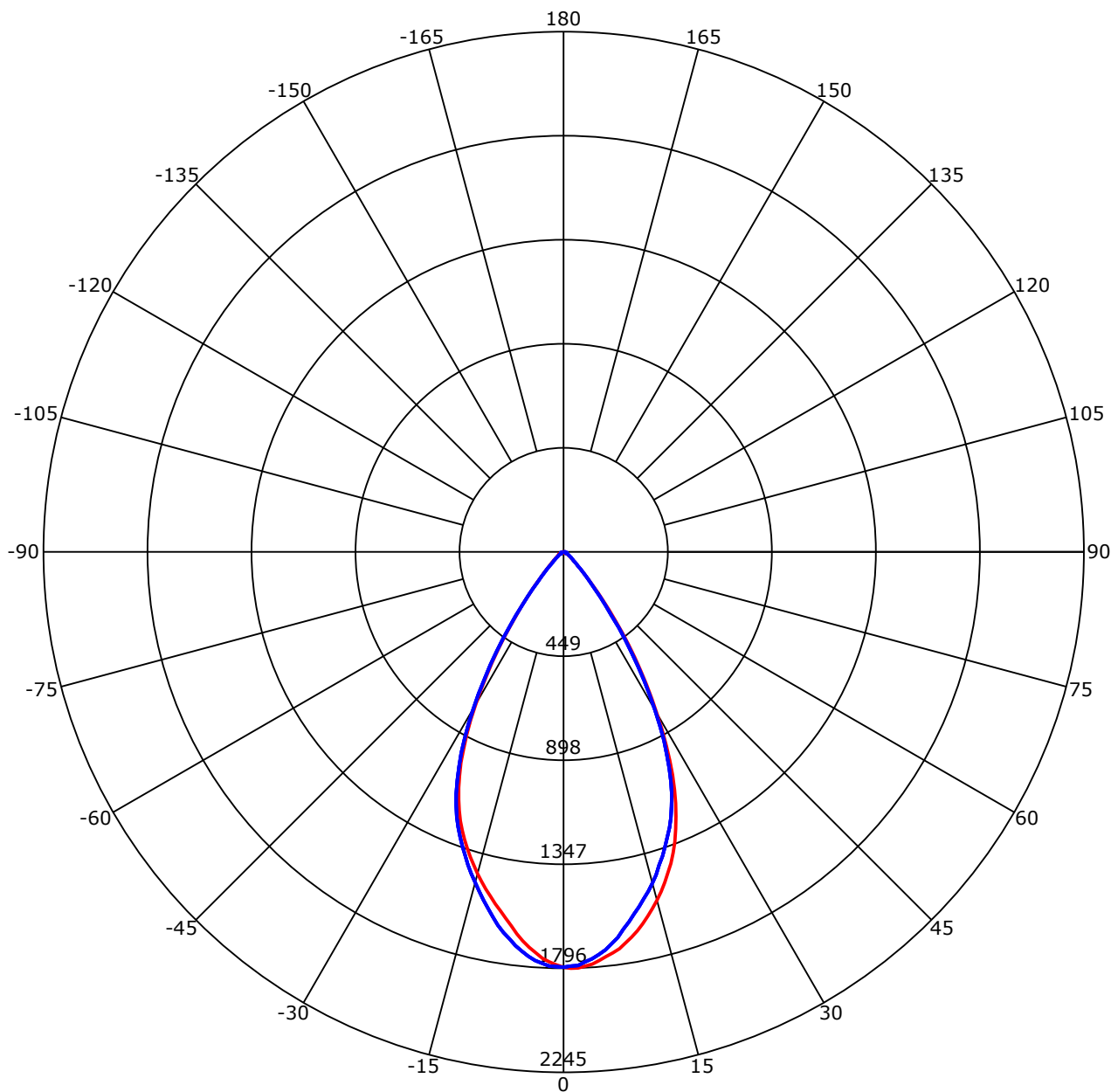
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/1/7 14:28:30

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 14:28:30

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

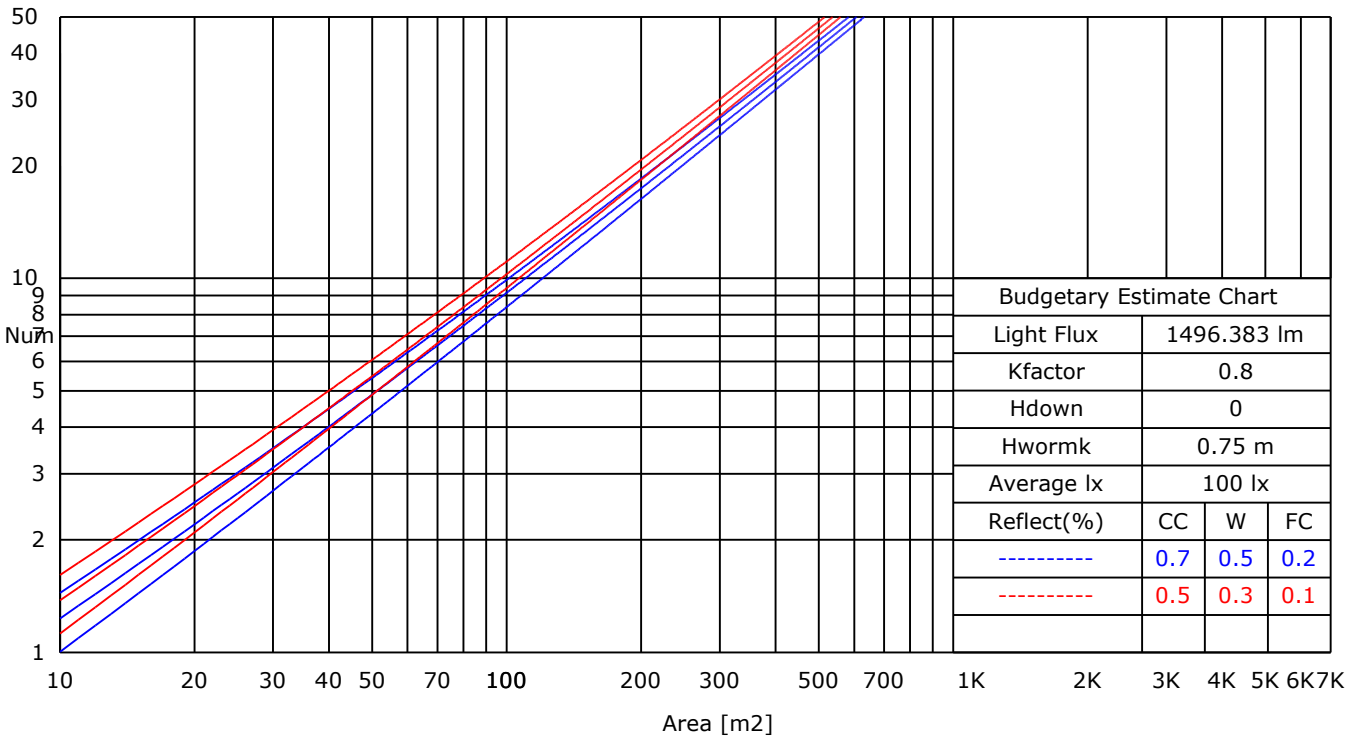
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UTILIZATION FACTORS TABLE

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	COEFFCIENTS 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	1.01	0.99	0.98	1.00	0.98	0.96	0.96	0.94	0.92	0.92	0.89	0.87	0.87	0.84	0.81	0.77
3	0.96	0.95	0.94	0.95	0.93	0.92	0.92	0.90	0.88	0.89	0.86	0.83	0.84	0.81	0.78	0.73
4	0.92	0.91	0.90	0.91	0.89	0.88	0.89	0.86	0.84	0.85	0.82	0.79	0.81	0.78	0.74	0.70
5	0.89	0.87	0.86	0.88	0.86	0.84	0.85	0.82	0.80	0.82	0.79	0.76	0.79	0.75	0.72	0.68
6	0.85	0.84	0.83	0.84	0.82	0.81	0.82	0.79	0.77	0.79	0.76	0.73	0.76	0.72	0.69	0.65
7	0.82	0.81	0.80	0.81	0.79	0.78	0.79	0.76	0.74	0.77	0.73	0.70	0.74	0.70	0.66	0.63
8	0.79	0.78	0.77	0.78	0.77	0.75	0.76	0.74	0.72	0.74	0.70	0.68	0.71	0.67	0.64	0.61
9	0.77	0.75	0.75	0.76	0.74	0.73	0.74	0.71	0.69	0.72	0.68	0.66	0.69	0.65	0.62	0.59
10	0.74	0.73	0.72	0.73	0.72	0.70	0.72	0.69	0.67	0.70	0.66	0.64	0.67	0.63	0.60	0.57

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



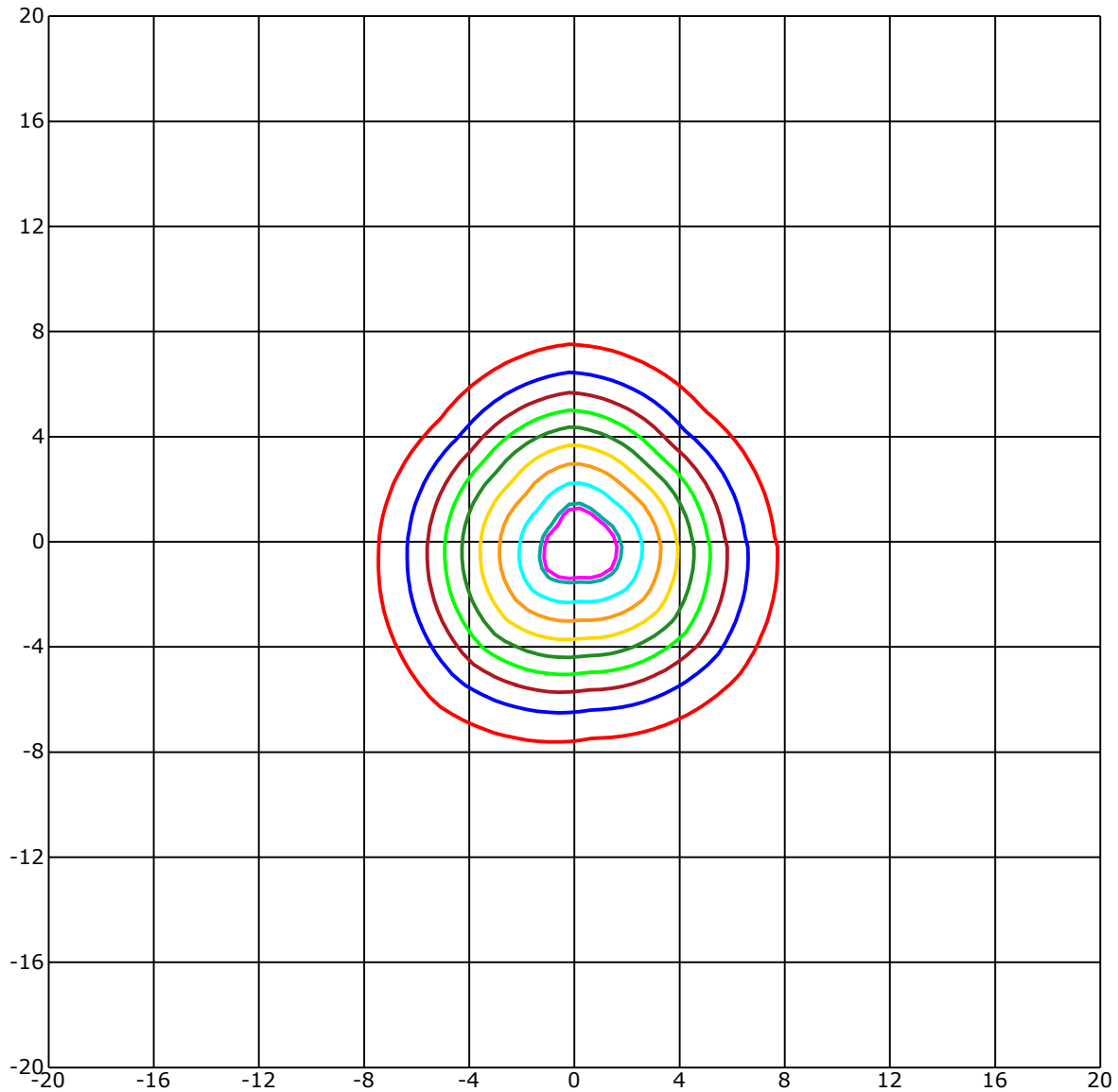
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Test Speed: High
Temperature: 25
Operators: QC01
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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ISOLX DIAGRAM



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

16.519(92%Emax)	8.978(50%Emax)
16.16(90%Emax)	7.182(40%Emax)
14.364(80%Emax)	5.387(30%Emax)
12.569(70%Emax)	3.591(20%Emax)
10.773(60%Emax)	1.796(10%Emax)

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/1/7 14:28:30

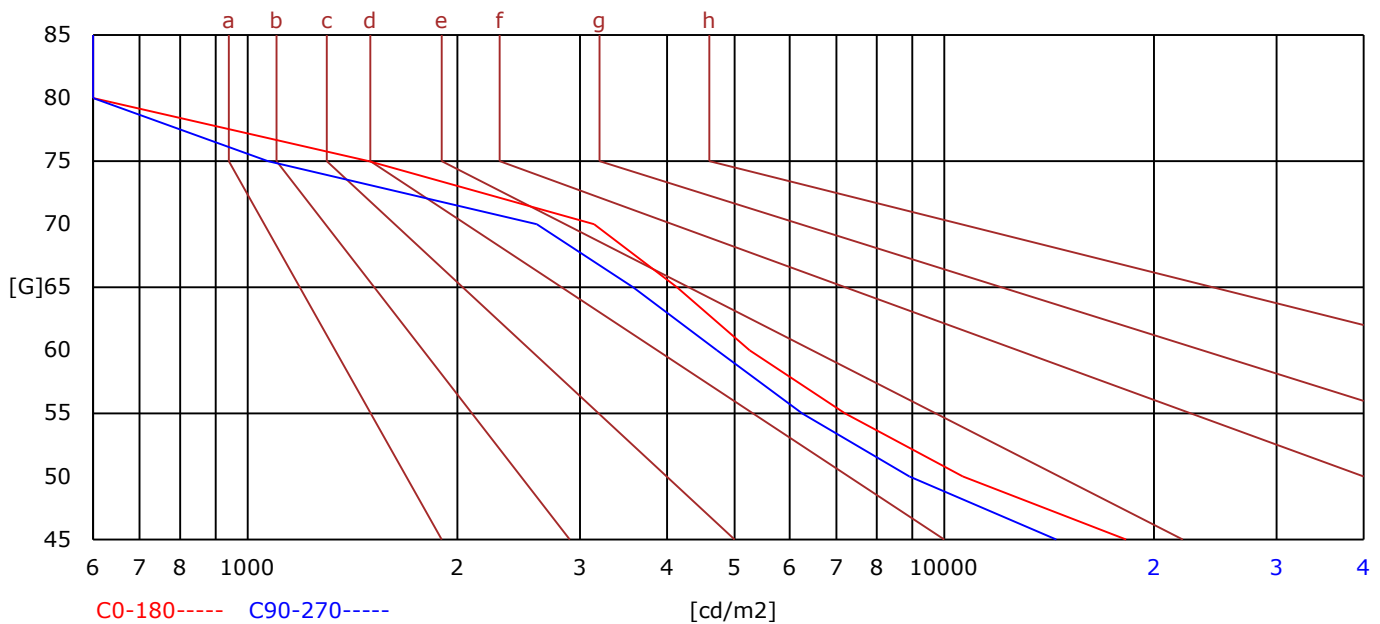
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Humidity: 60
Test Distance: 6.78 m
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	18247	10630	7201	5255	4132	3142	1492	483	0
C90	14483	8907	6249	4718	3575	2602	1070	242	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



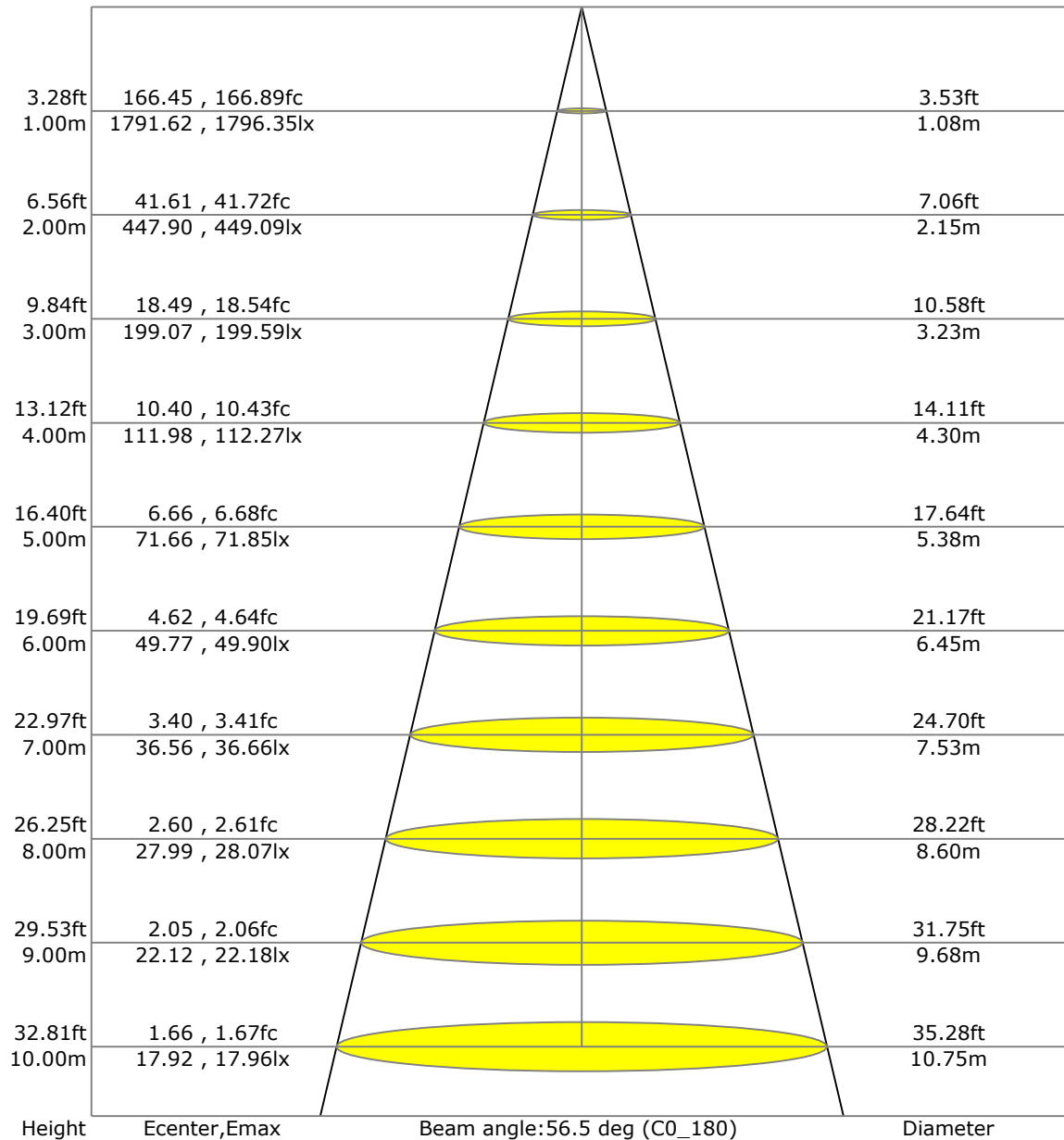
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C Interval: 45.0 Deg
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Temperature: 25
Operators: QC01
Test Date: 2025/1/7 14:28:30

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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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 14:28:30

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	13.09	13.14	13.29	13.33	13.57	13.15	13.20	13.35	13.38	13.63
3H	13.07	13.12	13.28	13.32	13.56	13.12	13.18	13.33	13.37	13.62
4H	13.06	13.11	13.27	13.31	13.55	13.11	13.16	13.32	13.36	13.61
6H	13.04	13.09	13.26	13.29	13.54	13.09	13.14	13.31	13.34	13.59
8H	13.03	13.08	13.25	13.29	13.54	13.08	13.13	13.30	13.34	13.59
12H	13.02	13.07	13.24	13.28	13.53	13.07	13.12	13.29	13.33	13.58
4H 2H	13.18	13.23	13.39	13.43	13.68	13.35	13.41	13.57	13.60	13.85
3H	13.17	13.22	13.39	13.42	13.68	13.34	13.39	13.56	13.59	13.85
4H	13.15	13.20	13.38	13.41	13.67	13.32	13.37	13.55	13.58	13.84
6H	13.13	13.17	13.36	13.40	13.66	13.29	13.34	13.53	13.56	13.83
8H	13.11	13.16	13.36	13.39	13.65	13.28	13.33	13.52	13.55	13.82
12H	13.10	13.15	13.35	13.38	13.65	13.27	13.31	13.52	13.54	13.81
8H 4H	13.16	13.21	13.38	13.41	13.67	13.40	13.45	13.62	13.65	13.90
6H	13.09	13.14	13.35	13.38	13.65	13.34	13.39	13.60	13.62	13.90
8H	13.08	13.12	13.34	13.37	13.64	13.33	13.37	13.59	13.61	13.89
12H	13.06	13.10	13.33	13.35	13.64	13.31	13.35	13.58	13.60	13.88
12H 4H	13.11	13.15	13.35	13.38	13.65	13.39	13.44	13.64	13.67	13.94
6H	13.08	13.12	13.34	13.36	13.64	13.37	13.41	13.63	13.66	13.93

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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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ZONAL LUMINOUS FLUX TABLE

[illegible]

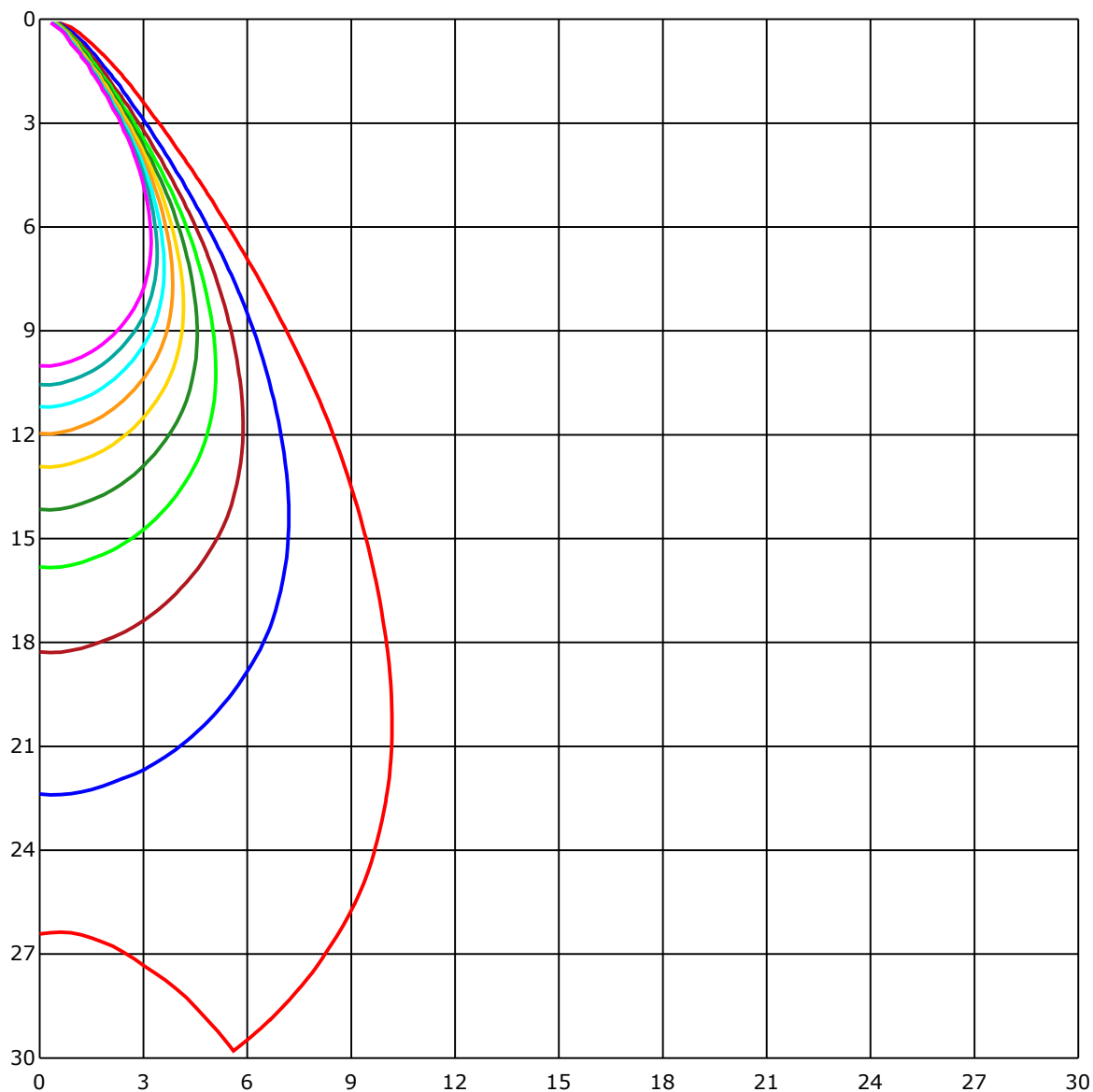
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Remarks:

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SPACE ISOLX DIAGRAM



Unit of illumination:lx



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Test Date: 2025/1/7 14:28:30

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	1791.62	1789.55	1791.39	1770.43	1791.62	1789.55	1791.39	1770.43	1791.62	
G1	1796.35	1783.62	1787.07	1752.87	1781.46	1793.23	1789.78	1778.24	1796.35	
G2	1796.22	1767.3	1784.82	1737.93	1769.05	1792.63	1787.62	1789.09	1796.22	
G3	1789.6	1753.14	1771.16	1715.4	1755.03	1794.47	1776.54	1791.8	1789.6	
G4	1782.01	1738.16	1759.95	1691.5	1733.38	1782.84	1767.07	1793.73	1782.01	
G5	1769.37	1722.76	1743.35	1664.29	1711.86	1769.83	1750.94	1789.09	1769.37	
G6	1754.75	1700.79	1726.3	1636.89	1687.04	1752.78	1731.45	1787.67	1754.75	
G7	1742.71	1680.79	1703.36	1606.73	1659.87	1735.45	1711.17	1769.55	1742.71	
G8	1728.04	1651.88	1679.73	1574.92	1628.84	1718.85	1685.02	1757.0	1728.04	
G9	1707.4	1623.97	1648.2	1545.18	1600.48	1699.08	1662.03	1741.15	1707.4	
G10	1688.28	1597.26	1620.02	1518.98	1571.57	1671.83	1635.88	1719.31	1688.28	
G11	1664.79	1567.48	1591.7	1483.17	1547.62	1644.61	1603.19	1698.9	1664.79	
G12	1640.02	1532.22	1564.86	1456.79	1519.07	1617.95	1571.89	1673.53	1640.02	
G13	1613.31	1501.19	1535.71	1422.31	1493.61	1588.21	1540.59	1645.49	1613.31	
G14	1584.95	1466.76	1509.46	1395.19	1466.12	1554.19	1507.63	1625.35	1584.95	
G15	1555.48	1428.24	1478.71	1360.21	1436.74	1525.55	1475.68	1592.9	1555.48	
G16	1524.86	1391.56	1448.92	1330.69	1405.3	1491.72	1444.88	1567.71	1524.86	
G17	1490.53	1353.95	1410.95	1295.76	1376.75	1464.97	1411.51	1541.87	1490.53	
G18	1455.64	1308.72	1379.42	1260.22	1345.68	1434.26	1376.66	1513.56	1455.64	
G19	1420.98	1265.42	1344.94	1224.87	1313.13	1408.1	1342.23	1476.41	1420.98	
G20	1380.98	1217.11	1308.72	1187.13	1279.9	1376.25	1308.45	1444.97	1380.98	
G21	1339.29	1168.2	1273.78	1145.07	1242.62	1349.04	1270.8	1408.61	1339.29	
G22	1289.32	1111.88	1235.26	1101.73	1202.9	1314.42	1232.87	1378.45	1289.32	
G23	1240.18	1055.94	1191.92	1050.06	1160.98	1280.77	1187.32	1335.38	1240.18	
G24	1186.9	994.76	1145.85	998.07	1114.27	1235.77	1141.81	1296.72	1186.9	
G25	1132.52	933.8	1094.05	940.1	1064.72	1195.5	1085.96	1251.77	1132.52	
G26	1071.2	869.54	1038.98	881.54	1010.57	1149.9	1032.13	1205.43	1071.2	
G27	1009.6	807.76	980.28	816.26	951.27	1102.83	972.88	1152.06	1009.6	
G28	943.13	741.52	920.56	748.73	890.32	1046.52	911.88	1098.19	943.13	
G29	875.47	677.21	854.18	679.73	827.16	990.62	847.61	1036.91	875.47	
G30	805.46	613.59	787.9	609.82	759.4	928.88	781.83	974.44	805.46	
G31	740.18	552.72	720.78	543.85	694.58	866.92	713.2	905.67	740.18	
G32	672.52	495.45	653.95	479.86	627.65	800.26	646.55	836.99	672.52	
G33	607.79	440.1	587.48	418.08	565.87	738.16	581.32	768.59	607.79	
G34	546.56	384.53	525.56	359.56	504.23	672.2	518.62	698.4	546.56	
G35	487.04	332.72	463.91	302.79	445.94	611.43	458.03	629.17	487.04	
G36	429.85	285.33	402.78	253.15	387.88	550.61	400.06	561.5	429.85	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/1/7 14:28:30

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(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	372.48	244.14	344.76	210.81	334.28	492.87	343.52	495.26	372.48	
G38	318.06	209.85	294.89	175.92	286.34	435.0	291.39	431.78	318.06	
G39	270.43	179.51	250.02	147.37	244.18	380.62	246.39	370.78	270.43	
G40	229.98	152.62	212.74	124.02	208.47	328.63	207.87	314.38	229.98	
G41	193.76	129.72	181.48	103.7	177.53	283.67	174.68	265.97	193.76	
G42	163.28	110.69	154.27	88.17	151.37	243.13	146.55	224.42	163.28	
G43	138.78	94.74	131.93	75.2	130.14	209.16	123.66	187.74	138.78	
G44	118.09	81.69	113.17	64.72	111.89	179.46	104.81	158.77	118.09	
G45	100.49	70.65	97.82	56.08	97.73	154.78	89.04	134.23	100.49	
G46	85.55	61.64	85.23	49.51	85.13	133.26	76.49	114.14	85.55	
G47	73.6	54.06	74.65	43.49	74.97	115.47	65.6	97.5	73.6	
G48	63.57	47.03	66.19	38.66	66.56	99.66	57.14	84.4	63.57	
G49	55.35	41.65	58.93	34.61	59.71	86.74	50.11	73.23	55.35	
G50	48.5	37.42	53.05	31.35	53.83	76.45	44.13	64.26	48.5	
G51	42.61	33.65	47.72	28.41	49.19	68.13	39.44	57.09	42.61	
G52	38.02	30.2	43.58	25.79	44.45	60.82	35.58	51.07	38.02	
G53	34.06	27.49	39.9	23.49	40.91	54.98	32.22	45.74	34.06	
G54	30.48	24.91	36.64	21.79	37.6	49.97	29.47	41.56	30.48	
G55	27.63	22.62	33.74	19.63	34.8	45.37	26.85	37.92	27.63	
G56	25.14	20.46	31.21	18.16	31.99	41.42	24.78	34.94	25.14	
G57	23.03	18.76	29.01	16.64	29.6	38.34	22.8	32.18	23.03	
G58	20.78	17.01	26.89	15.26	27.4	35.26	21.24	29.97	20.78	
G59	18.94	15.63	25.05	14.2	25.79	32.87	19.54	28.04	18.94	
G60	17.42	14.39	23.4	12.92	23.67	30.34	18.07	26.25	17.42	
G61	16.04	13.38	21.93	11.91	21.97	28.13	16.78	24.59	16.04	
G62	14.53	12.18	20.36	11.08	20.55	26.2	15.49	23.08	14.53	
G63	13.42	11.22	19.08	9.98	19.21	24.55	14.53	21.38	13.42	
G64	12.32	10.39	17.97	9.15	18.02	22.75	13.51	20.18	12.32	
G65	11.45	9.56	17.01	8.27	16.96	21.38	12.5	18.98	11.45	
G66	10.48	8.78	15.91	7.58	15.86	20.04	11.68	17.65	10.48	
G67	9.65	8.0	14.89	6.85	14.94	18.85	10.76	16.32	9.65	
G68	8.96	7.22	13.97	6.21	13.97	17.84	10.02	15.12	8.96	
G69	8.23	6.57	13.06	5.52	13.1	16.69	9.06	14.3	8.23	
G70	7.45	5.88	12.46	4.87	12.14	15.63	8.23	13.38	7.45	
G71	6.76	5.24	11.4	4.23	11.45	14.62	7.49	12.46	6.76	
G72	6.07	4.5	10.62	3.68	10.43	13.7	6.62	11.68	6.07	
G73	5.42	3.82	9.75	2.99	9.47	12.73	5.88	10.89	5.42	

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: 6.78 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: 2025/1/7 14:28:30

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