

Report No.:

Test Time: 2025/7/17 11:30:42

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP150CT075H90-38°-15W
Lamp Type:
Luminous Width: 63 mm
Luminous Length: 63 mm
Luminous Height: 65 mm

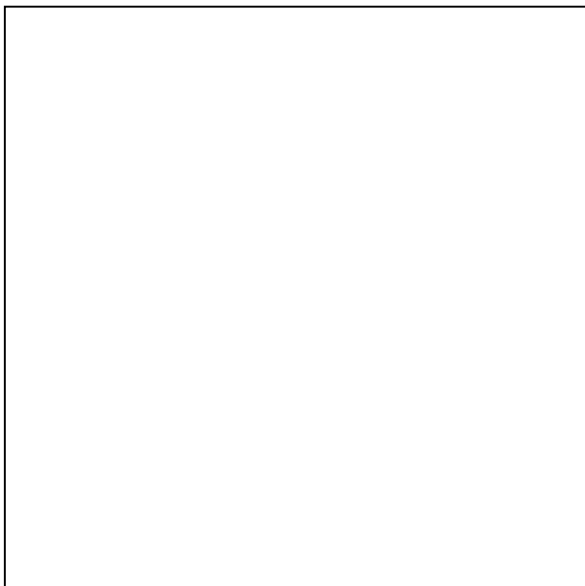
Voltage(V): 219.80 V
Current(A): 0.0720 A
Power(W): 15.18 W
Power Factor: 0.9530
Lamp Luminous Flux: 1040.06

Photometric Results

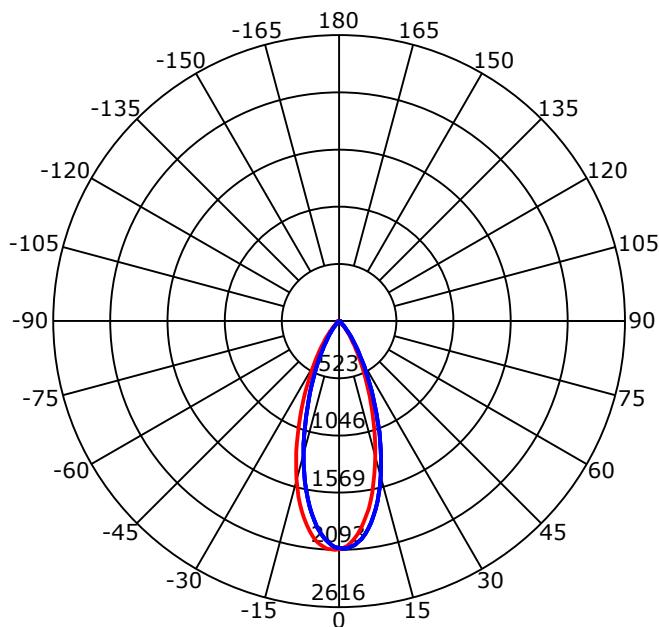
CIE Class: Direct
Luminaire Luminous Flux: 1040.06 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 68.52 lm/W
Beam Angle(50%) C0-180,C90-270: 38.7,38.0
Field Angle(10%) C0-180,C90-270: 71.0,69.2
S/MH C0-180,C90-270: 0.650,0.611

Max. Intensity: 2092.57 cd
Max.Intensity Angle: C=180 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 2087.43 cd
Effective Luminous Flux: 936.55 lm
ERP(ϕ use)(120deg): 1031.72 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 38.7 deg,38.0 deg

C0-180 — C90-270 —

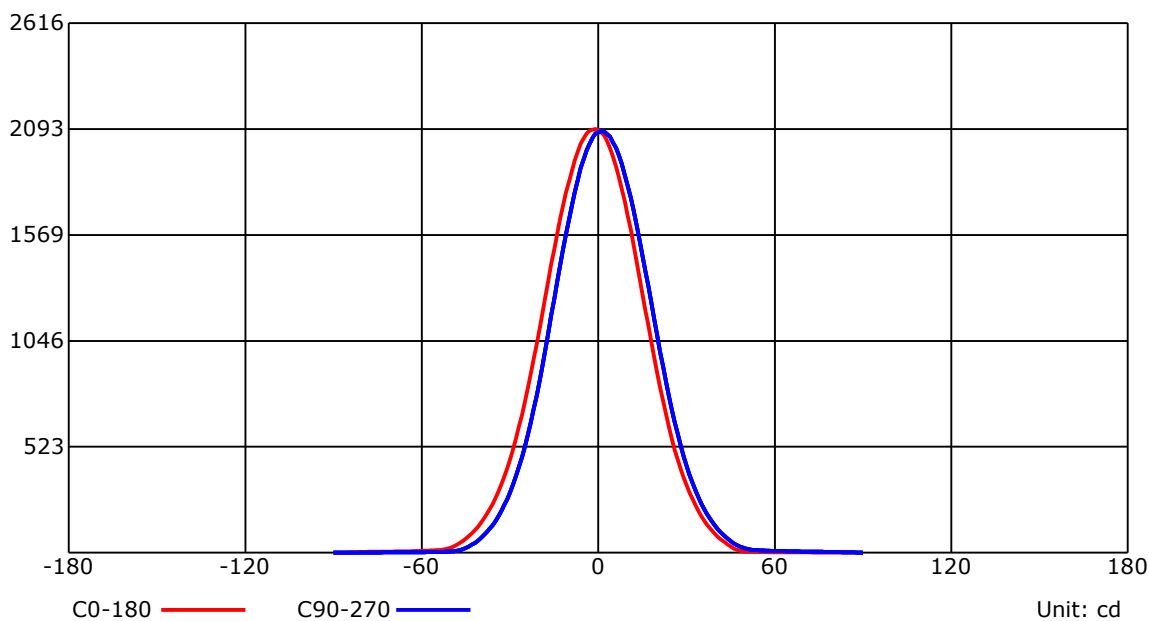
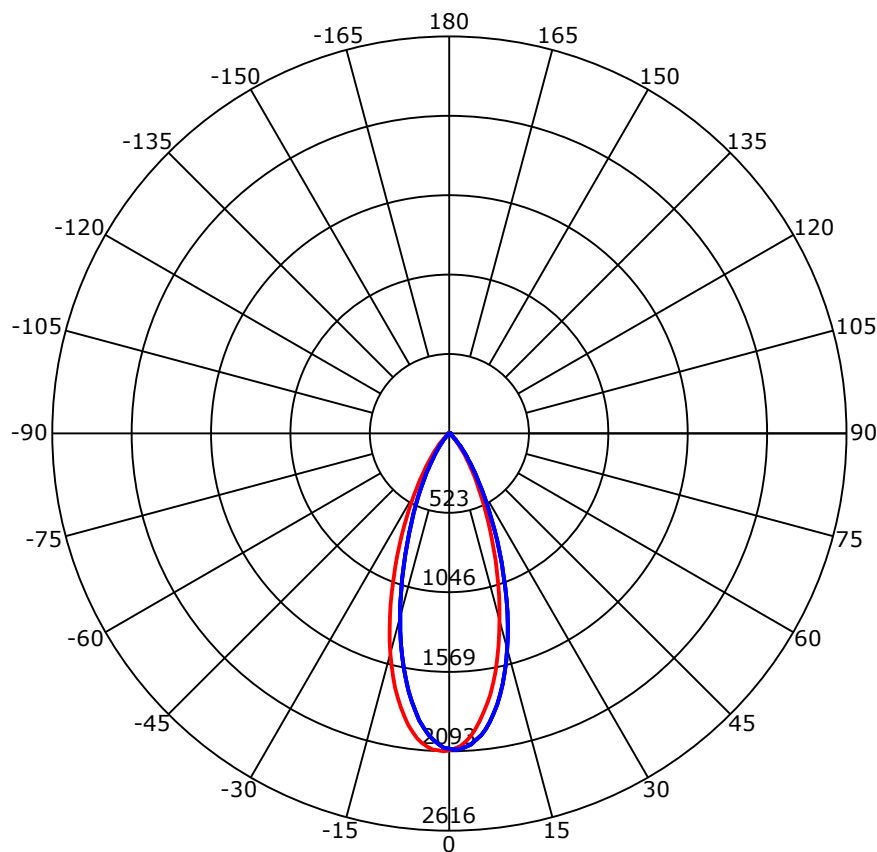
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/7/17 11:30:42

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



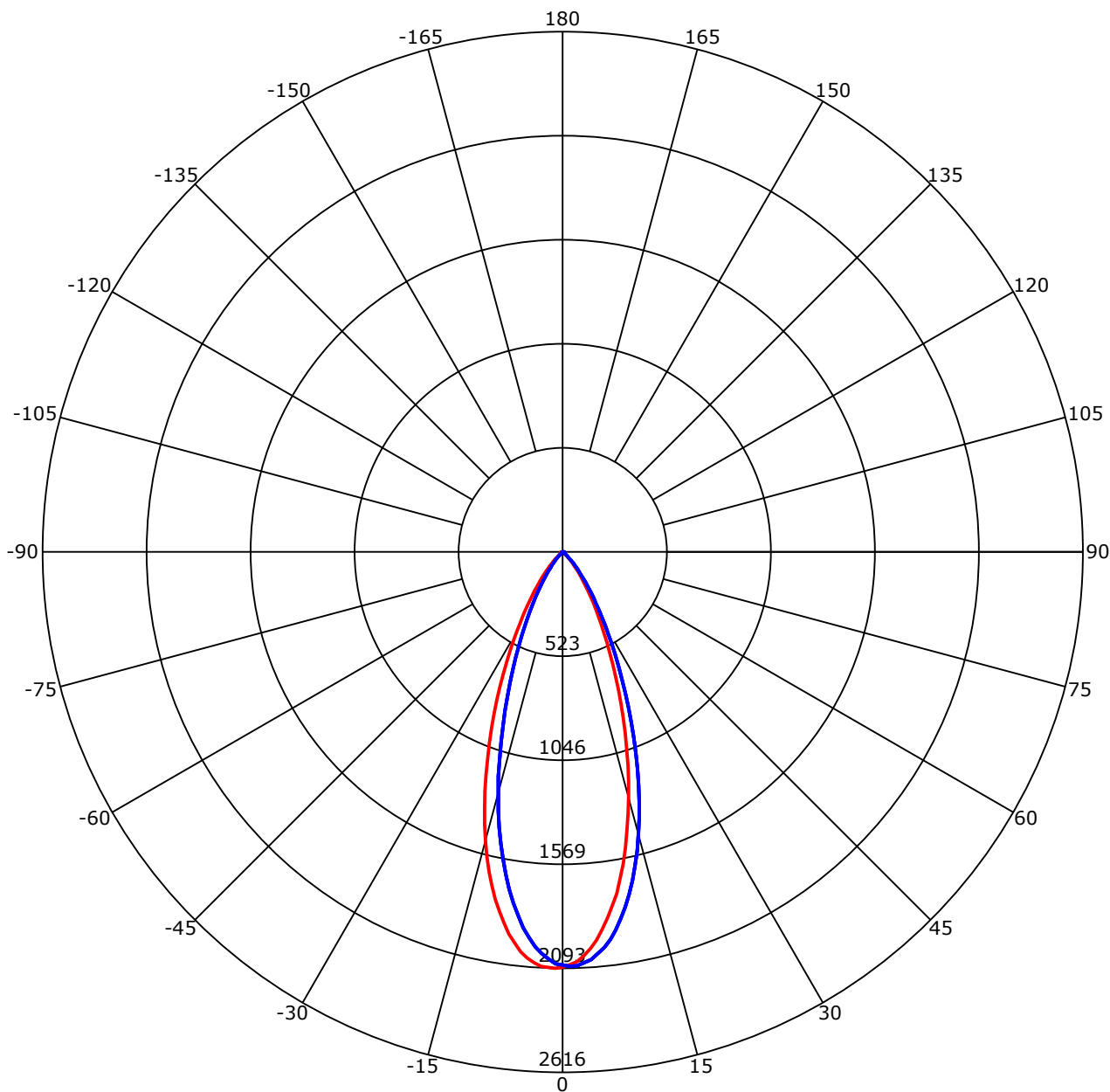
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Humidity: 60
Test Distance: 6.87 m
Remarks:

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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: 2025/7/17 11:30:42

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

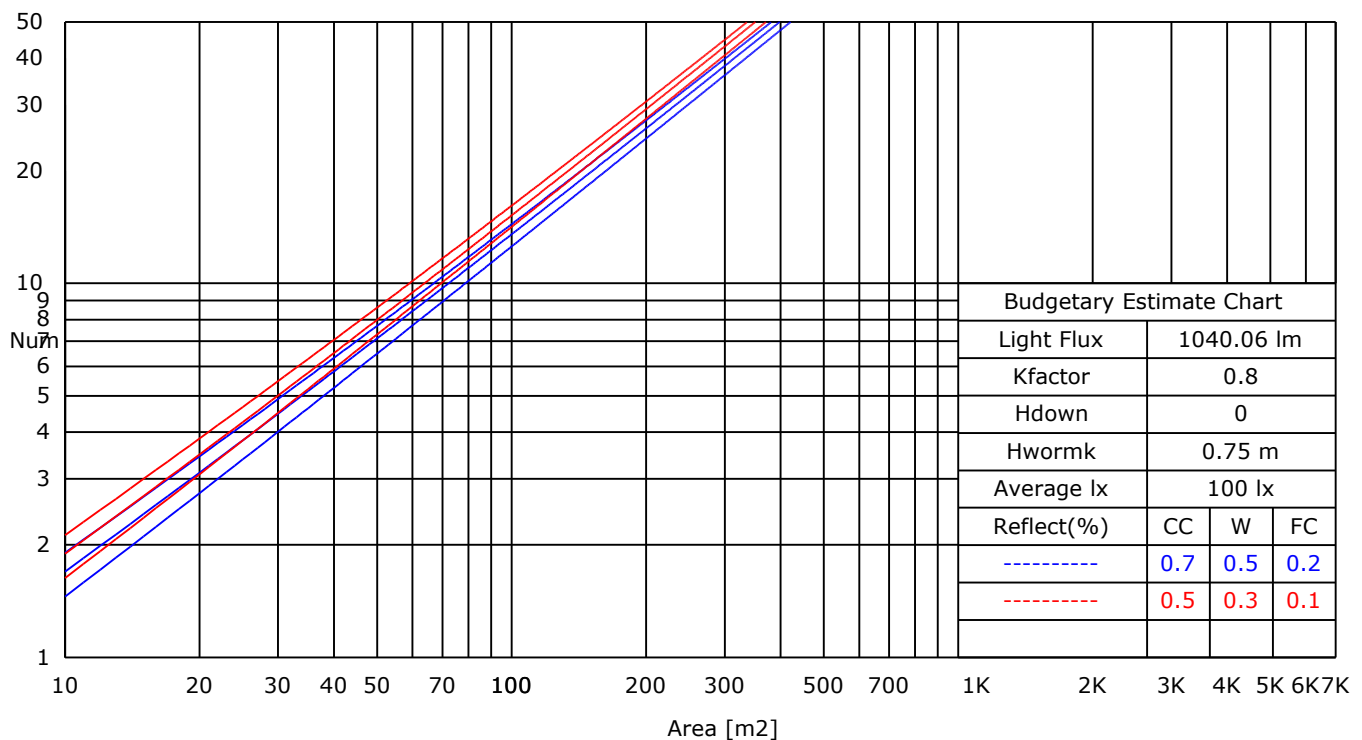
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UTILIZATION FACTORS TABLE

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	1.02	1.00	0.99	1.01	0.99	0.97	0.98	0.95	0.93	0.93	0.90	0.88	0.87	0.84	0.82	0.77
2	0.97	0.95	0.93	0.96	0.93	0.92	0.93	0.90	0.88	0.89	0.86	0.83	0.84	0.80	0.78	0.73
3	0.93	0.91	0.90	0.92	0.90	0.88	0.89	0.86	0.84	0.86	0.83	0.80	0.81	0.78	0.75	0.70
4	0.90	0.88	0.87	0.89	0.87	0.85	0.86	0.83	0.81	0.83	0.80	0.77	0.79	0.75	0.72	0.68
5	0.87	0.85	0.84	0.86	0.84	0.82	0.84	0.81	0.79	0.81	0.77	0.74	0.77	0.73	0.70	0.66
6	0.84	0.83	0.82	0.83	0.81	0.80	0.81	0.78	0.76	0.79	0.75	0.72	0.75	0.71	0.68	0.64
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	0.69	0.66	0.63
8	0.80	0.79	0.78	0.79	0.77	0.76	0.77	0.74	0.72	0.75	0.71	0.68	0.72	0.68	0.65	0.61
9	0.78	0.77	0.76	0.77	0.75	0.74	0.75	0.72	0.70	0.73	0.69	0.67	0.70	0.66	0.63	0.60
10	0.76	0.75	0.74	0.75	0.73	0.72	0.73	0.71	0.69	0.71	0.68	0.65	0.69	0.64	0.61	0.58

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



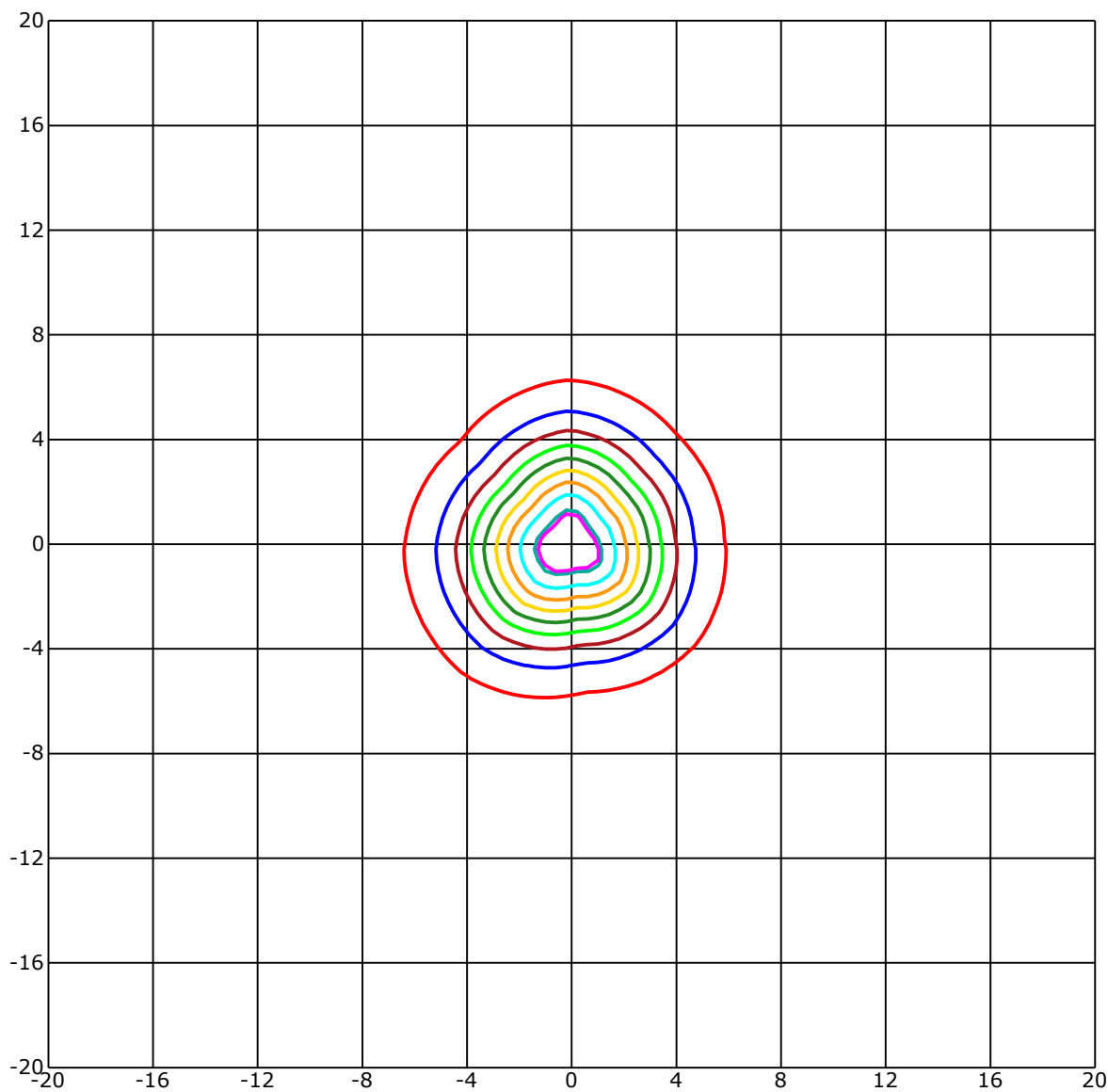
C Range: 0 - 360 Deg
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Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/7/17 11:30:42

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)

19.243(92%Emax)	10.458(50%Emax)
18.825(90%Emax)	8.366(40%Emax)
16.733(80%Emax)	6.275(30%Emax)
14.641(70%Emax)	4.183(20%Emax)
12.55(60%Emax)	2.092(10%Emax)

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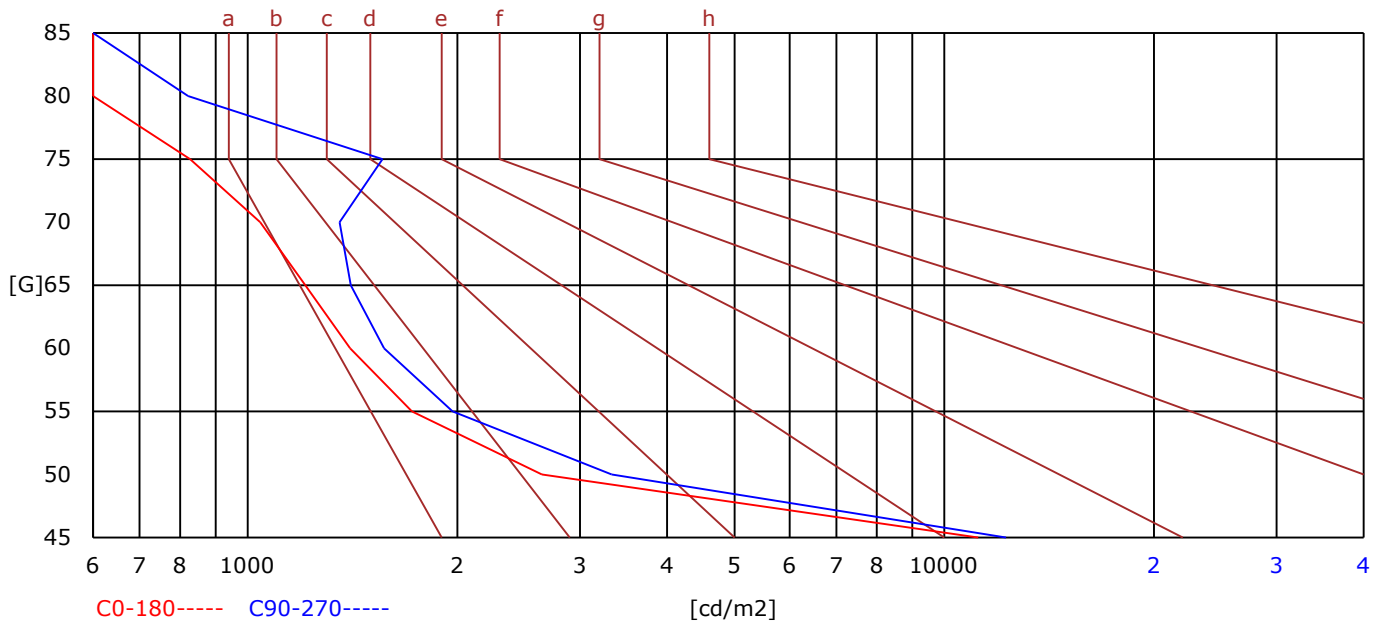
G Range: 0 - 90 Deg
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Humidity: 60
Test Distance: 6.87 m
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	11183	2645	1721	1403	1210	1043	827	0	0
C90	12260	3330	1970	1570	1407	1356	1562	822	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



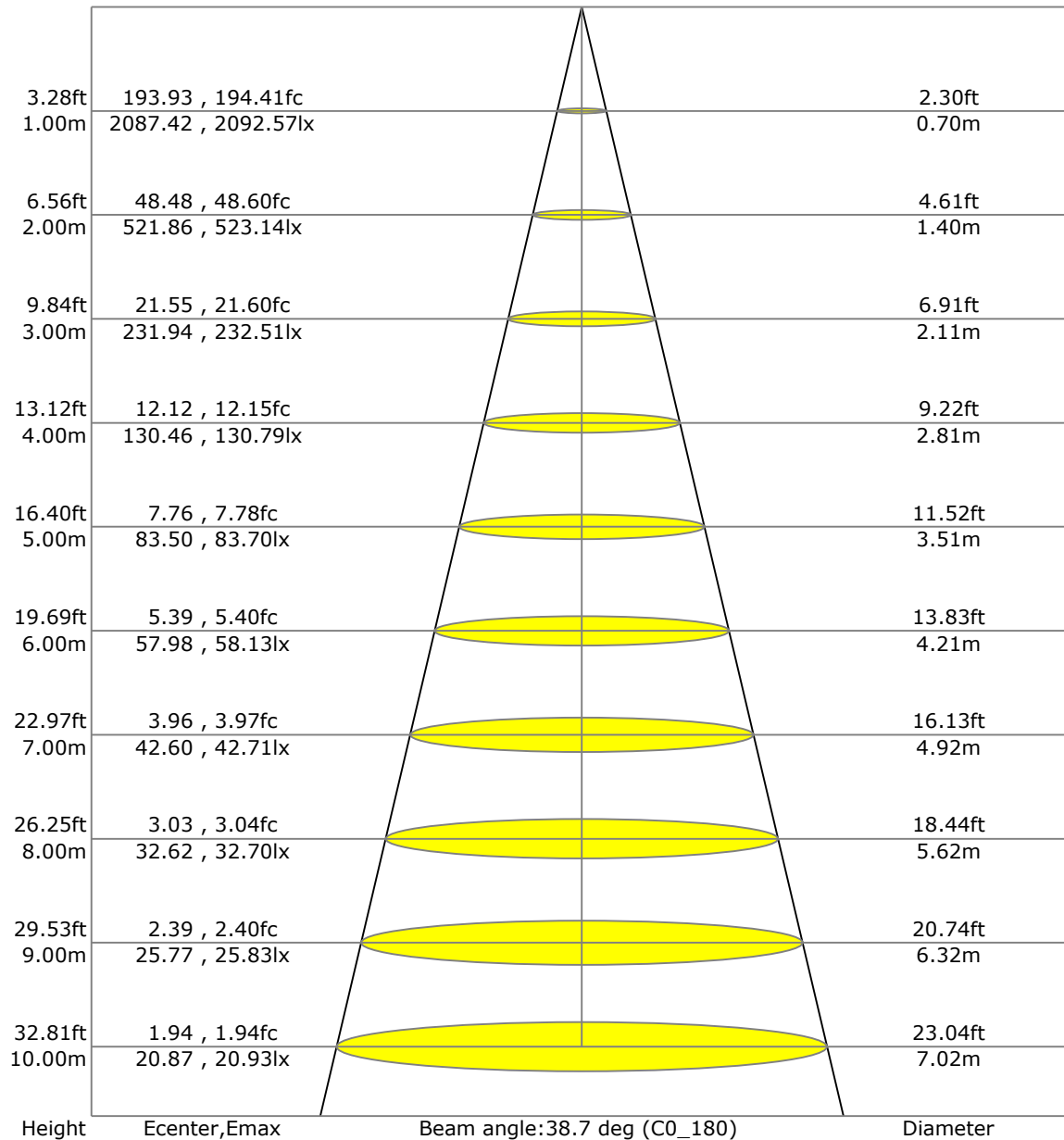
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/7/17 11:30:42

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: 2025/7/17 11:30:42

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	11.66	11.71	11.86	11.90	12.14	11.82	11.87	12.02	12.06	12.30
3H	11.64	11.69	11.85	11.89	12.13	11.80	11.85	12.00	12.04	12.29
4H	11.63	11.68	11.84	11.88	12.13	11.78	11.83	11.99	12.03	12.28
6H	11.61	11.67	11.83	11.87	12.12	11.77	11.82	11.98	12.02	12.27
8H	11.61	11.66	11.82	11.86	12.11	11.76	11.81	11.98	12.01	12.27
12H	11.60	11.65	11.82	11.85	12.11	11.75	11.80	11.97	12.01	12.26
4H 2H	11.64	11.70	11.85	11.89	12.14	11.95	12.00	12.16	12.20	12.45
3H	11.62	11.67	11.84	11.88	12.13	11.93	11.98	12.15	12.19	12.44
4H	11.60	11.66	11.83	11.87	12.13	11.91	11.96	12.14	12.17	12.43
6H	11.58	11.63	11.82	11.86	12.12	11.89	11.94	12.12	12.16	12.42
8H	11.57	11.62	11.82	11.85	12.11	11.87	11.92	12.12	12.15	12.42
12H	11.56	11.61	11.81	11.84	12.11	11.86	11.91	12.11	12.14	12.41
8H 4H	11.62	11.67	11.84	11.87	12.13	12.06	12.11	12.28	12.32	12.57
6H	11.54	11.59	11.80	11.83	12.10	12.01	12.06	12.27	12.30	12.57
8H	11.53	11.58	11.79	11.82	12.10	12.00	12.04	12.26	12.29	12.56
12H	11.52	11.56	11.78	11.81	12.09	11.98	12.02	12.25	12.28	12.56
12H 4H	11.55	11.60	11.80	11.84	12.10	12.11	12.16	12.36	12.39	12.66
6H	11.53	11.57	11.79	11.82	12.10	12.09	12.14	12.35	12.38	12.66

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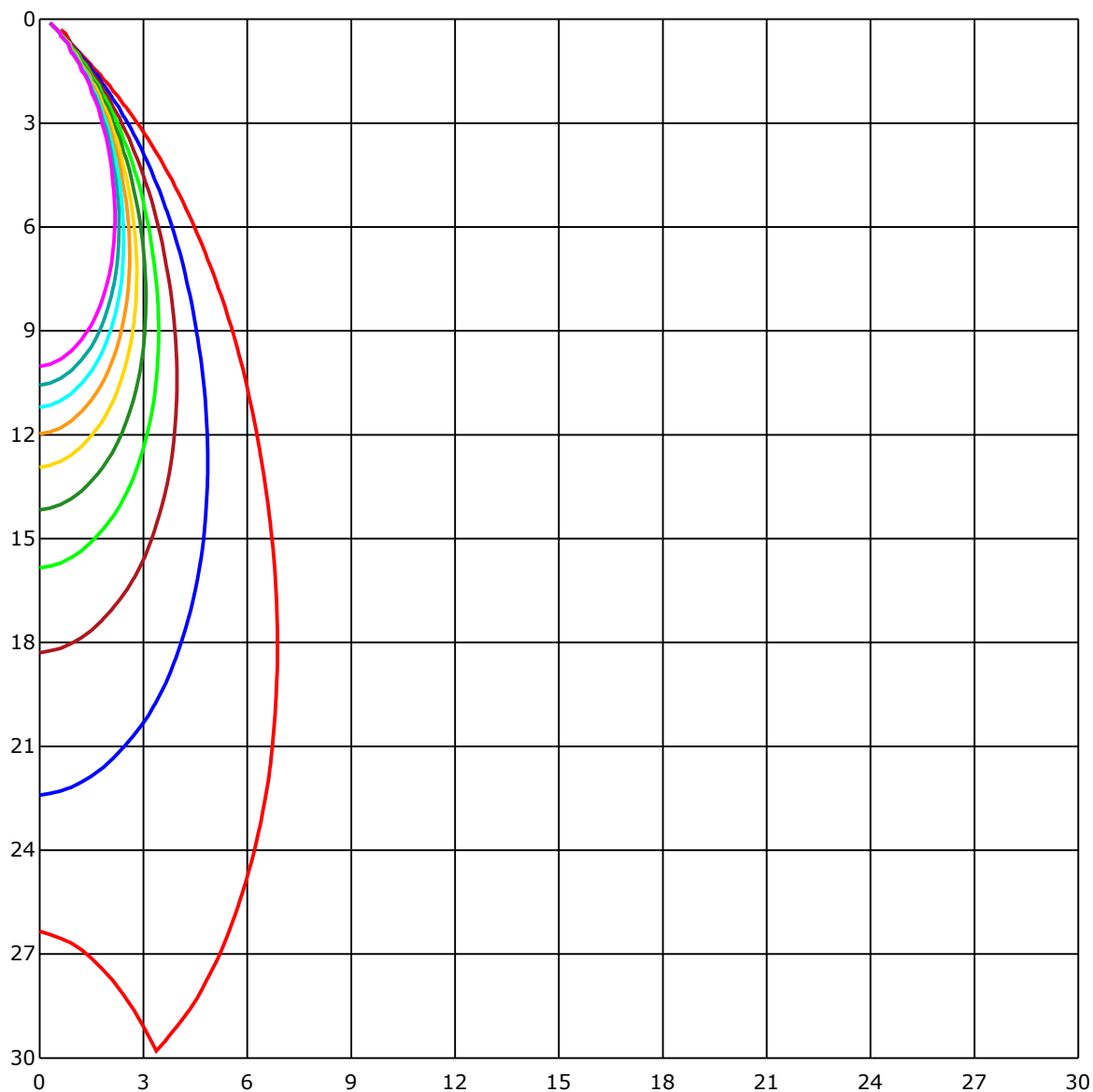
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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SPACE ISOLX DIAGRAM



20.785	10.392
18.706	8.314
16.628	6.235
14.549	4.157
12.471	2.078

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
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Temperature: 25
Operators: QC01
Test Date: 2025/7/17 11:30:42

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 DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	2087.43	2065.57	2075.91	2082.0	2087.43	2065.57	2075.91	2082.0	2087.43	
G1	2075.2	2049.95	2082.52	2074.3	2092.57	2074.82	2070.01	2087.0	2075.2	
G2	2060.62	2027.58	2080.63	2050.14	2089.08	2078.65	2047.69	2083.74	2060.62	
G3	2032.06	1995.86	2067.08	2027.2	2085.25	2070.72	2020.07	2076.43	2032.06	
G4	1998.22	1958.72	2054.43	1999.69	2069.77	2063.02	1988.69	2057.74	1998.22	
G5	1956.69	1915.96	2025.64	1956.69	2048.2	2039.66	1944.84	2029.89	1956.69	
G6	1905.58	1865.55	1999.69	1909.21	2020.64	2013.37	1899.53	1996.29	1905.58	
G7	1851.53	1810.52	1961.88	1859.23	1980.62	1976.09	1839.83	1959.57	1851.53	
G8	1794.24	1752.89	1918.13	1804.15	1939.23	1937.48	1782.06	1911.38	1794.24	
G9	1737.27	1683.47	1865.41	1747.7	1886.89	1895.19	1717.07	1862.96	1737.27	
G10	1664.07	1615.97	1812.31	1677.47	1833.27	1841.67	1646.7	1800.8	1664.07	
G11	1595.73	1543.43	1752.09	1602.62	1777.67	1786.92	1571.28	1737.08	1595.73	
G12	1515.26	1470.7	1687.95	1523.85	1713.91	1725.9	1498.74	1665.3	1515.26	
G13	1437.38	1393.16	1617.82	1442.48	1649.3	1656.61	1418.6	1592.75	1437.38	
G14	1358.23	1315.85	1546.22	1364.51	1575.39	1585.63	1339.35	1515.63	1358.23	
G15	1278.89	1237.41	1469.29	1287.82	1499.45	1511.67	1253.74	1437.19	1278.89	
G16	1199.18	1158.78	1393.39	1206.83	1425.39	1436.11	1172.84	1357.62	1199.18	
G17	1122.15	1079.3	1314.15	1126.68	1343.6	1357.24	1085.62	1276.54	1122.15	
G18	1040.41	1000.57	1235.57	1044.52	1265.49	1278.85	1004.21	1193.7	1040.41	
G19	963.15	924.07	1153.92	967.82	1185.63	1201.49	923.69	1110.21	963.15	
G20	888.91	852.71	1076.37	890.61	1105.16	1122.81	848.18	1029.55	888.91	
G21	817.97	784.6	993.73	818.82	1029.41	1045.08	776.06	949.7	817.97	
G22	748.45	719.66	918.17	746.51	953.47	971.88	707.29	871.4	748.45	
G23	683.18	658.73	844.02	679.78	881.83	898.25	641.55	797.16	683.18	
G24	620.5	600.63	772.75	617.1	812.31	826.18	580.76	727.12	620.5	
G25	562.21	545.6	705.03	557.96	745.85	758.97	524.12	661.79	562.21	
G26	507.27	494.53	643.44	503.45	680.67	693.56	471.97	599.64	507.27	
G27	457.9	447.71	583.26	455.4	621.44	632.82	422.79	542.34	457.9	
G28	412.22	404.52	527.47	407.07	563.53	576.6	378.19	488.72	412.22	
G29	370.35	362.71	475.56	364.36	510.67	522.8	337.08	439.17	370.35	
G30	333.49	324.24	428.36	324.48	461.96	472.87	299.79	391.59	333.49	
G31	297.72	289.84	384.47	289.27	417.41	426.75	265.06	349.45	297.72	
G32	264.59	257.93	344.21	257.6	374.08	385.13	234.05	310.04	264.59	
G33	234.14	229.33	307.2	227.87	335.99	346.09	205.02	274.97	234.14	
G34	206.06	202.66	274.5	200.54	300.97	310.89	179.16	243.06	206.06	
G35	180.67	178.17	243.02	176.56	269.12	278.04	156.03	214.46	180.67	
G36	158.44	156.08	215.12	154.57	239.19	247.74	135.46	188.27	158.44	

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:

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	138.52	135.83	189.73	134.7	212.43	221.02	116.95	165.14	138.52	
G38	119.36	118.13	166.42	116.34	187.84	195.35	100.1	143.9	119.36	
G39	102.46	101.76	145.13	100.39	166.09	172.36	85.05	125.97	102.46	
G40	87.46	87.03	126.58	86.46	145.79	151.55	71.36	108.84	87.46	
G41	73.58	73.86	109.59	73.01	127.15	132.25	59.28	93.59	73.58	
G42	61.4	61.73	94.58	61.5	110.91	114.97	48.28	79.81	61.4	
G43	50.64	51.11	80.47	51.4	95.76	99.59	39.17	67.77	50.64	
G44	40.07	40.78	68.29	42.05	82.26	86.28	31.1	57.16	40.07	
G45	30.35	31.39	57.11	34.41	70.42	73.58	23.55	46.96	30.35	
G46	21.43	23.55	46.82	27.04	59.7	62.77	17.65	38.04	21.43	
G47	14.54	17.23	38.37	20.58	49.93	52.25	12.7	30.49	14.54	
G48	9.77	12.37	31.15	15.15	40.31	42.24	9.49	24.12	9.77	
G49	7.17	9.01	25.11	11.23	32.52	33.65	7.22	19.54	7.17	
G50	5.9	6.75	20.63	8.5	25.96	26.86	6.18	16.33	5.9	
G51	5.19	5.76	17.42	6.89	20.81	21.52	5.24	14.44	5.19	
G52	4.67	5.29	15.06	5.85	17.32	17.7	4.77	13.03	4.67	
G53	4.2	4.86	13.36	5.33	15.01	15.01	4.29	12.13	4.2	
G54	3.82	4.44	12.37	4.96	13.5	13.45	4.06	11.37	3.82	
G55	3.45	3.92	11.56	4.48	12.51	12.55	3.92	10.76	3.45	
G56	3.07	3.59	10.81	4.15	11.89	11.7	3.45	9.96	3.07	
G57	3.02	3.21	10.19	3.87	11.09	11.0	3.07	9.44	3.02	
G58	2.78	2.97	9.68	3.59	10.38	10.34	2.97	8.97	2.78	
G59	2.69	2.88	9.11	3.35	9.77	9.72	2.78	8.45	2.69	
G60	2.45	2.78	8.68	3.11	9.2	9.16	2.69	7.93	2.45	
G61	2.27	2.6	8.21	2.93	8.83	8.64	2.6	7.5	2.27	
G62	2.27	2.45	7.88	2.64	8.35	8.45	2.41	7.27	2.27	
G63	2.08	2.45	7.55	2.5	7.93	7.88	2.22	6.94	2.08	
G64	1.89	2.27	7.27	2.41	7.5	7.6	2.17	6.56	1.89	
G65	1.89	2.03	7.03	2.36	7.27	7.36	2.03	6.28	1.89	
G66	1.84	1.94	6.56	2.17	6.94	7.13	1.89	6.09	1.84	
G67	1.84	1.6	6.28	1.98	6.8	6.8	1.6	5.71	1.84	
G68	1.79	1.6	6.18	1.84	6.51	6.42	1.7	5.43	1.79	
G69	1.6	1.46	5.85	1.89	6.14	6.14	1.56	5.33	1.6	
G70	1.46	1.42	5.76	1.84	5.9	5.95	1.51	5.29	1.46	
G71	1.27	1.37	5.52	1.84	5.9	5.57	1.42	5.19	1.27	
G72	1.23	1.18	5.33	1.79	5.71	5.52	1.32	4.81	1.23	
G73	1.04	1.04	5.0	1.7	5.47	5.29	1.23	4.63	1.04	

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/7/17 11:30:42

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: 2025/7/17 11:30:42

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

[illegible]

Remarks: