

Report No.:

Test Time: 2024/6/27 17:36:23

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP100CT075H90-60°-15W
Lamp Type:
Luminous Width: 64 mm
Luminous Length: 64 mm
Luminous Height: 68 mm

Voltage(V): 218.80 V
Current(A): 0.0740 A
Power(W): 15.59 W
Power Factor: 0.9550
Lamp Luminous Flux: 1384.08

Photometric Results

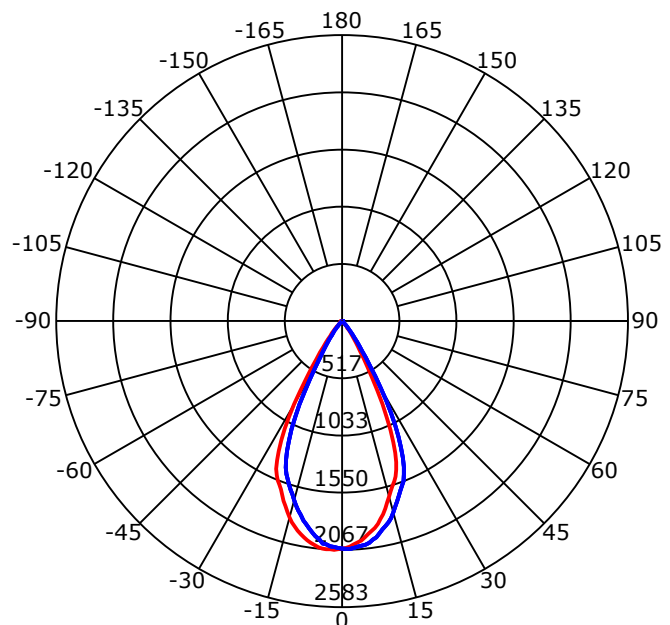
CIE Class: Direct
Luminaire Luminous Flux: 1384.079 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 88.78 lm/W
Beam Angle(50%) C0-180,C90-270: 52.9,52.7
Field Angle(10%) C0-180,C90-270: 71.6,71.1
S/MH C0-180,C90-270: 0.890,0.890

Max. Intensity: 2066.56 cd
Max.Intensity Angle: C=180 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 2056.23 cd
Effective Luminous Flux: 1312.76 lm
ERP(φuse)(120deg): 1382.12 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 52.9 deg,52.7 deg

C0-180 — C90-270 —

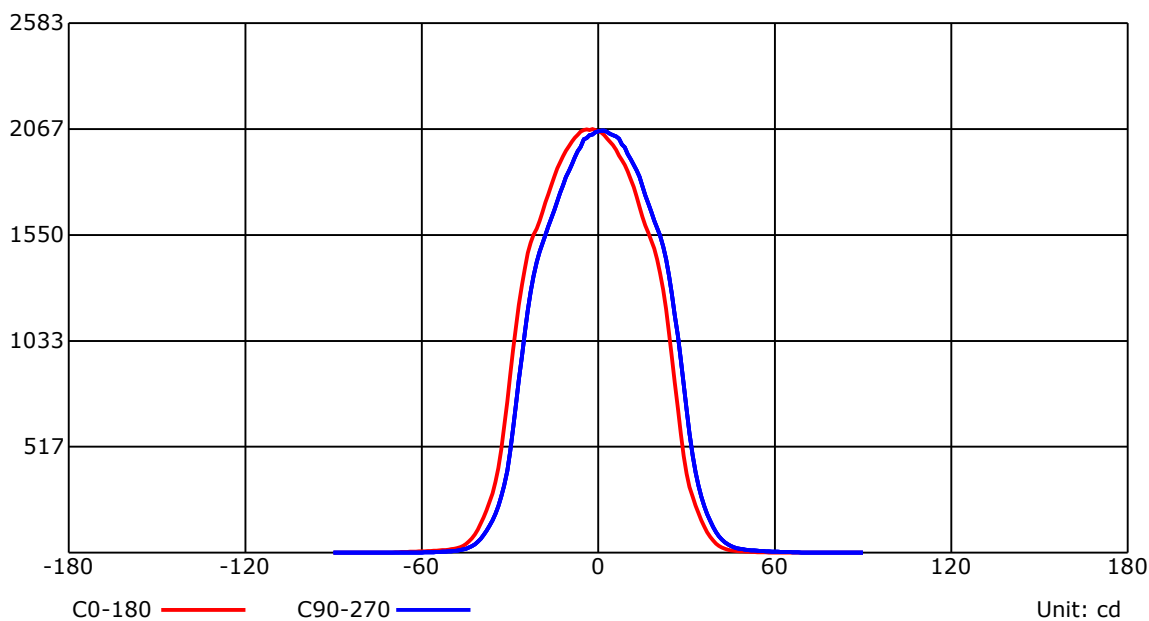
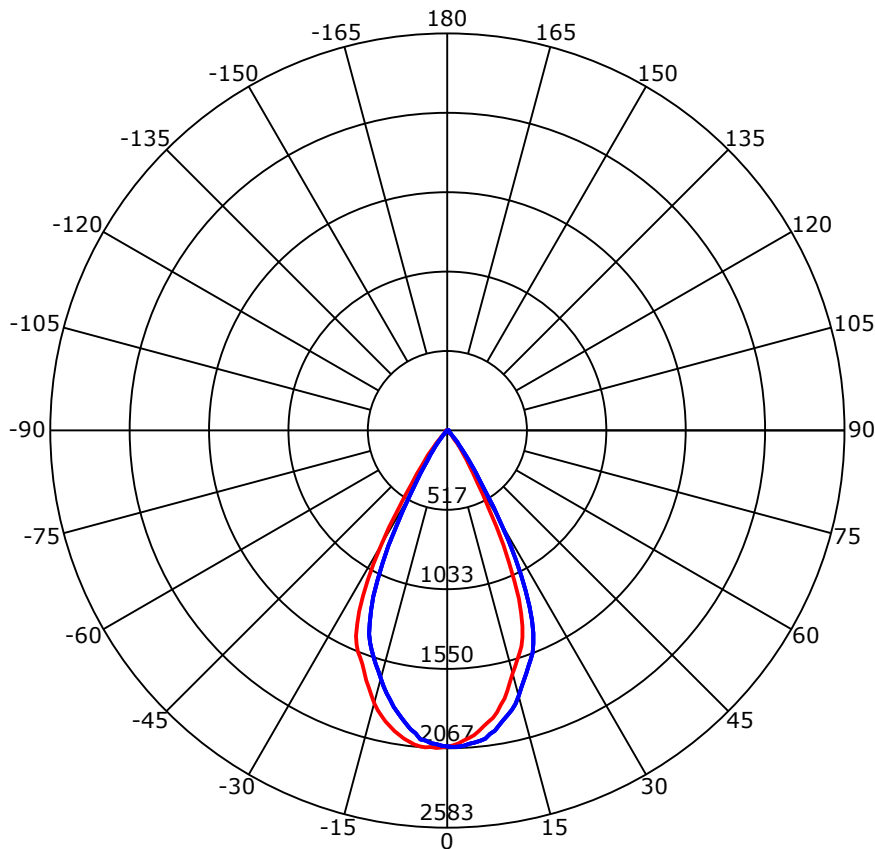
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/6/27 17:36:23

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

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Luminous Intensity Distribution Curve



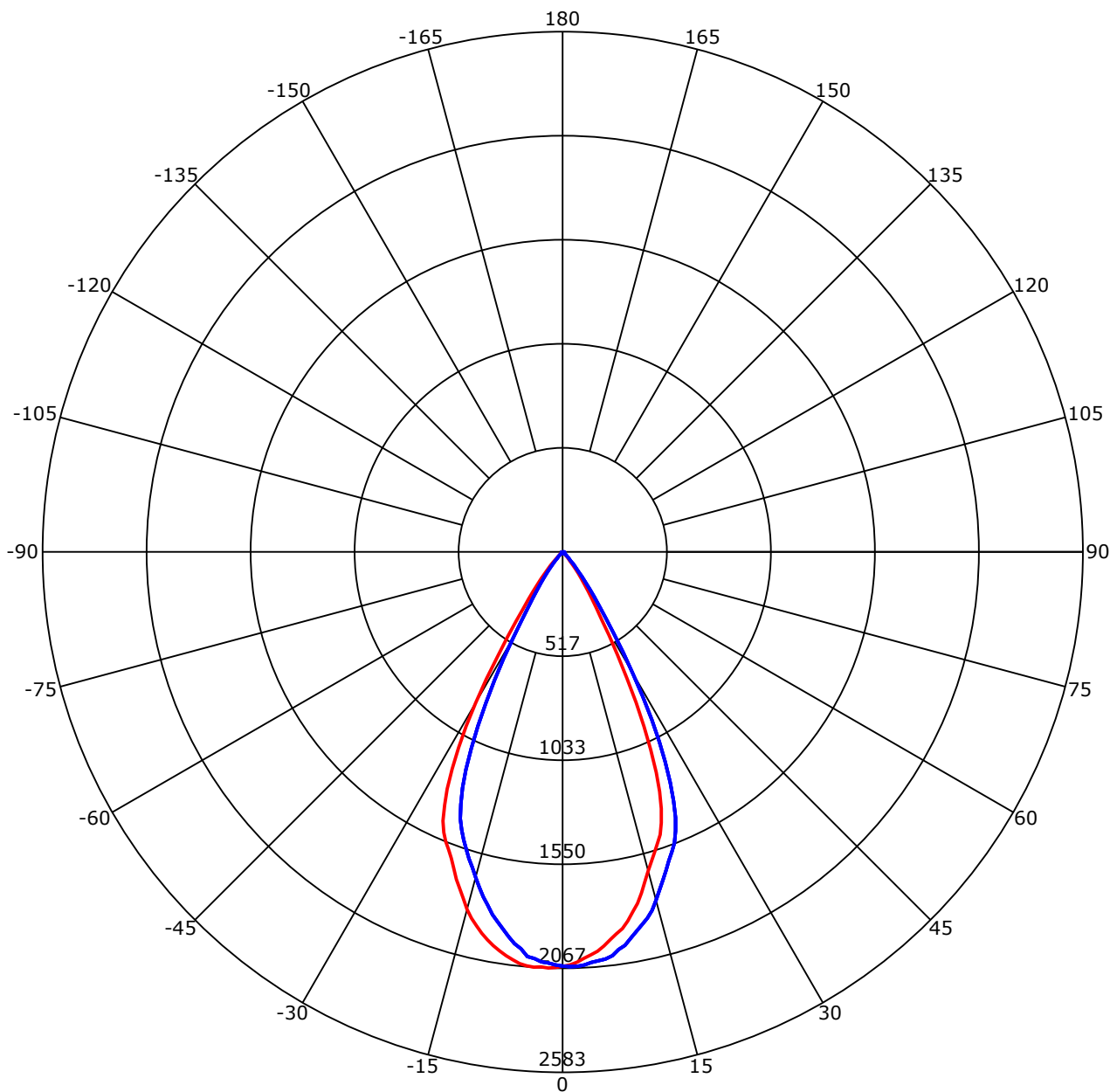
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Luminous Intensity Distribution Curve



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: 2024/6/27 17:36:23

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Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
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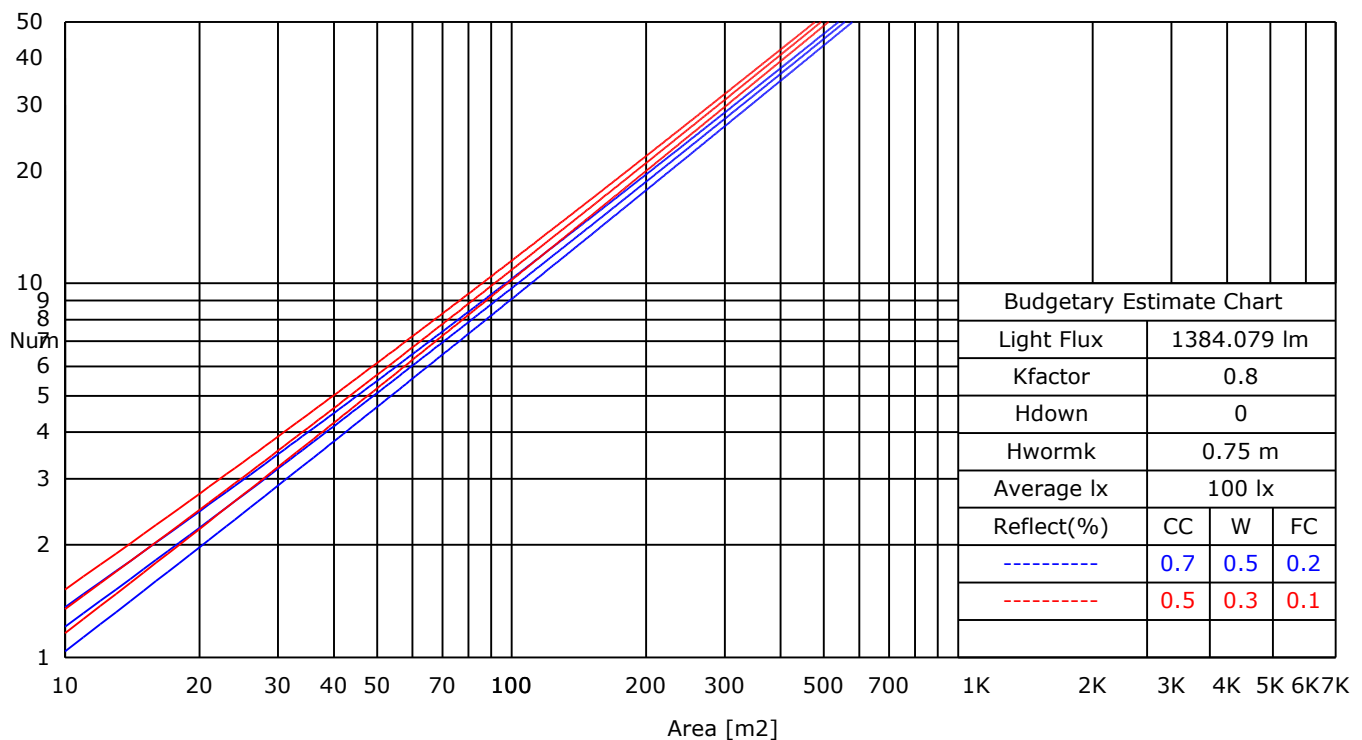
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UTILIZATION FACTORS TABLE

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	1.05	1.03	1.02	1.04	1.02	1.00	1.00	0.98	0.96	0.95	0.93	0.91	0.89	0.87	0.84	0.79
2	1.01	0.99	0.98	0.99	0.97	0.96	0.96	0.94	0.92	0.92	0.89	0.87	0.86	0.84	0.81	0.76
3	0.97	0.96	0.95	0.96	0.94	0.93	0.93	0.90	0.88	0.89	0.86	0.84	0.84	0.81	0.78	0.74
4	0.94	0.93	0.92	0.93	0.91	0.90	0.90	0.88	0.86	0.87	0.84	0.81	0.82	0.79	0.76	0.72
5	0.92	0.90	0.89	0.90	0.88	0.87	0.88	0.85	0.83	0.84	0.81	0.79	0.81	0.77	0.74	0.70
6	0.89	0.88	0.87	0.88	0.86	0.85	0.85	0.83	0.81	0.82	0.79	0.76	0.79	0.75	0.72	0.68
7	0.87	0.85	0.85	0.85	0.84	0.83	0.83	0.80	0.79	0.80	0.77	0.74	0.77	0.73	0.70	0.66
8	0.84	0.83	0.82	0.83	0.82	0.80	0.81	0.78	0.77	0.78	0.75	0.72	0.75	0.71	0.68	0.65
9	0.82	0.81	0.80	0.81	0.80	0.79	0.79	0.76	0.75	0.76	0.73	0.71	0.73	0.70	0.67	0.63
10	0.80	0.79	0.79	0.79	0.78	0.77	0.77	0.75	0.73	0.74	0.71	0.69	0.72	0.68	0.65	0.62

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



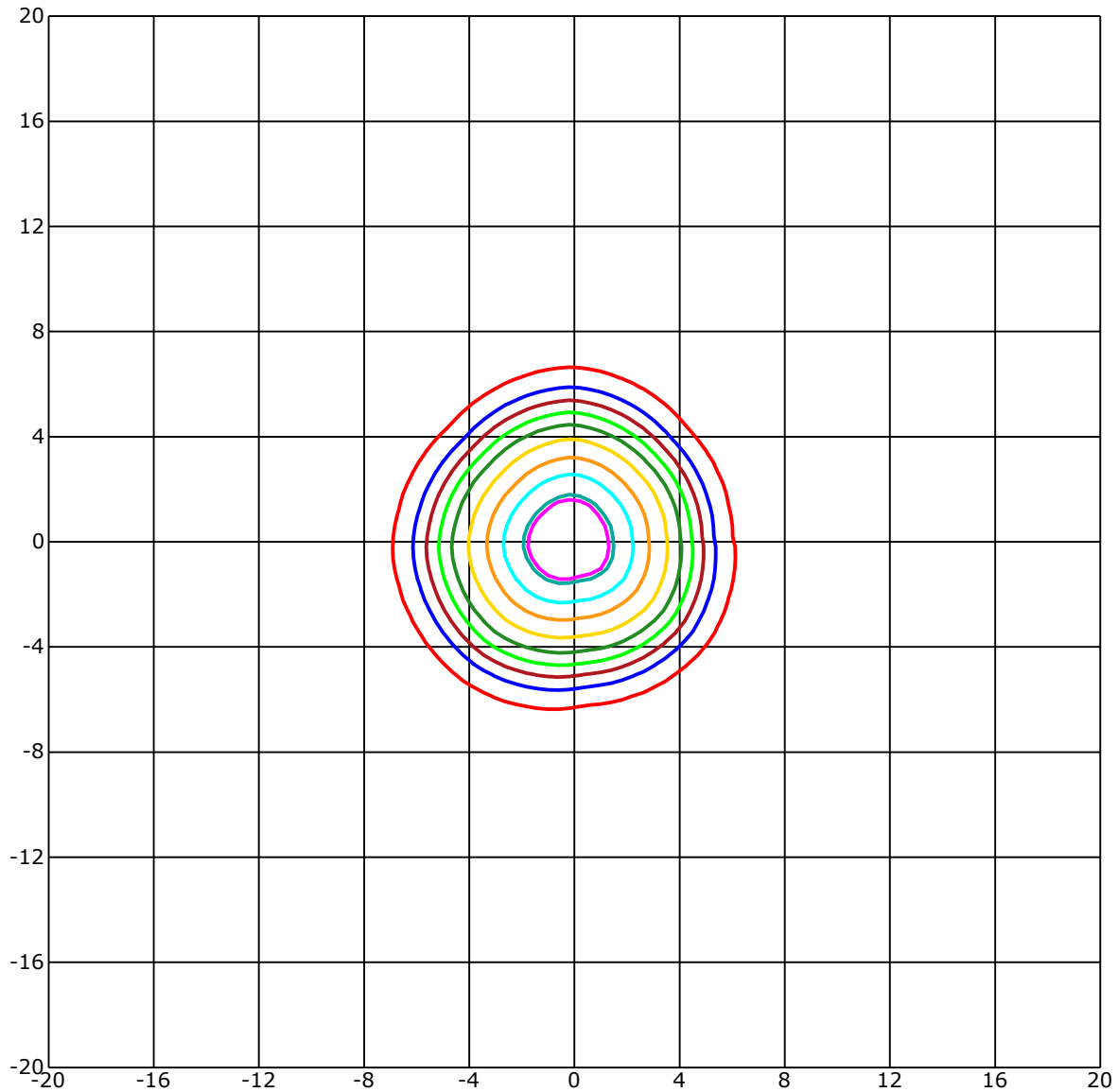
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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ISOLX DIAGRAM



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

18.978(92%Emax)	10.314(50%Emax)
18.565(90%Emax)	8.251(40%Emax)
16.503(80%Emax)	6.188(30%Emax)
14.44(70%Emax)	4.126(20%Emax)
12.377(60%Emax)	2.063(10%Emax)

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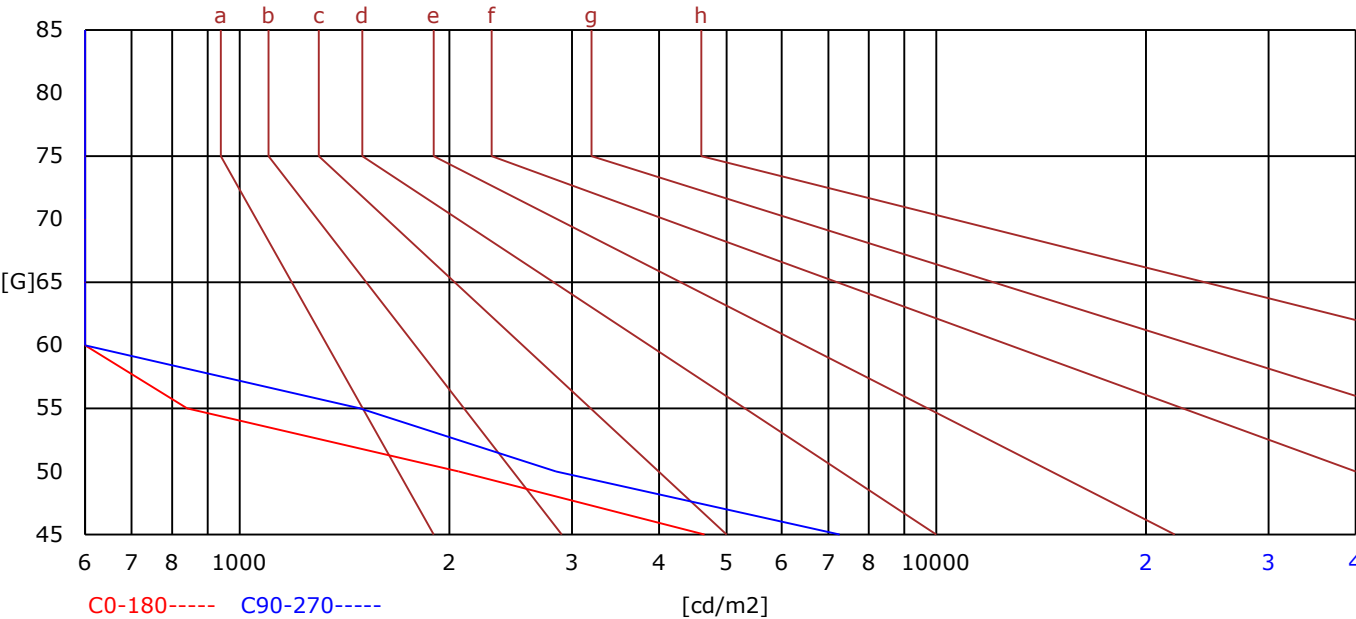
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	4650	2063	841	132	0	0	0	0	0
C90	7269	2847	1490	570	0	0	0	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



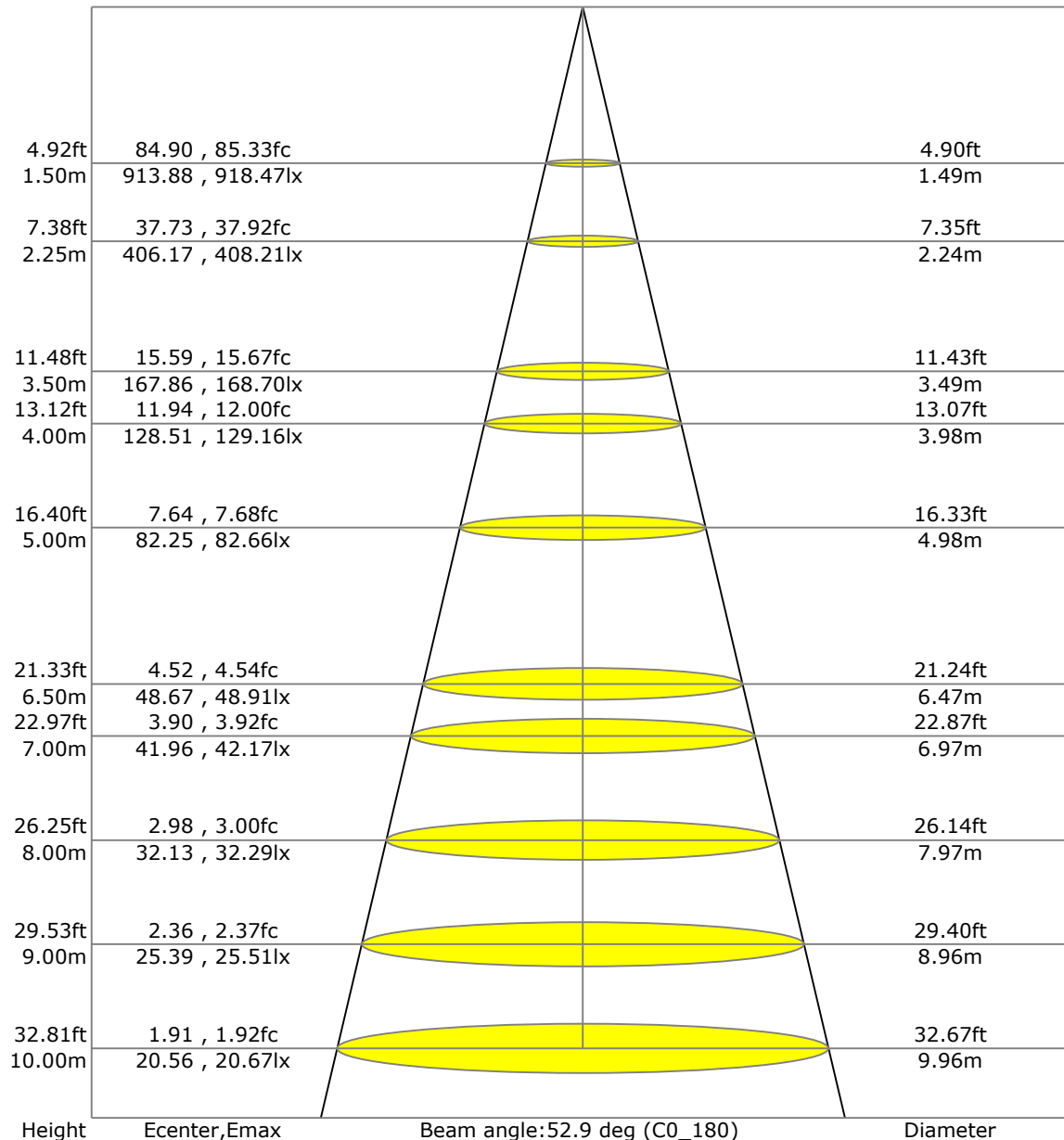
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G Interval: 1.0 Deg
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Test Distance: 6.7 m
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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2024/6/27 17:36:23

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.7 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	9.00	9.05	9.20	9.24	9.48	9.08	9.12	9.27	9.31	9.55
	3H	8.98	9.03	9.19	9.22	9.47	9.05	9.10	9.26	9.29	9.54
	4H	8.96	9.01	9.18	9.21	9.46	9.04	9.08	9.25	9.28	9.53
	6H	8.95	9.00	9.16	9.20	9.45	9.02	9.07	9.24	9.27	9.52
	8H	8.94	8.99	9.16	9.19	9.45	9.01	9.06	9.23	9.26	9.52
	12H	8.93	8.98	9.15	9.19	9.44	9.00	9.05	9.22	9.26	9.51
4H	2H	8.96	9.01	9.17	9.21	9.46	9.05	9.10	9.26	9.29	9.54
	3H	8.93	8.98	9.15	9.19	9.44	9.02	9.06	9.24	9.27	9.52
	4H	8.91	8.96	9.14	9.17	9.43	9.00	9.04	9.22	9.26	9.52
	6H	8.89	8.94	9.13	9.16	9.42	8.97	9.02	9.21	9.24	9.51
	8H	8.88	8.93	9.12	9.15	9.42	8.96	9.01	9.20	9.23	9.50
	12H	8.87	8.91	9.11	9.14	9.41	8.95	9.00	9.20	9.23	9.50
8H	4H	8.94	8.99	9.16	9.19	9.45	9.02	9.07	9.24	9.28	9.53
	6H	8.85	8.90	9.11	9.13	9.41	8.94	8.98	9.19	9.22	9.49
	8H	8.84	8.88	9.10	9.13	9.40	8.92	8.96	9.18	9.21	9.49
	12H	8.82	8.86	9.09	9.12	9.40	8.91	8.94	9.17	9.20	9.48
12H	4H	8.87	8.91	9.11	9.14	9.41	8.95	9.00	9.20	9.23	9.50
	6H	8.84	8.88	9.10	9.13	9.40	8.92	8.96	9.18	9.21	9.49

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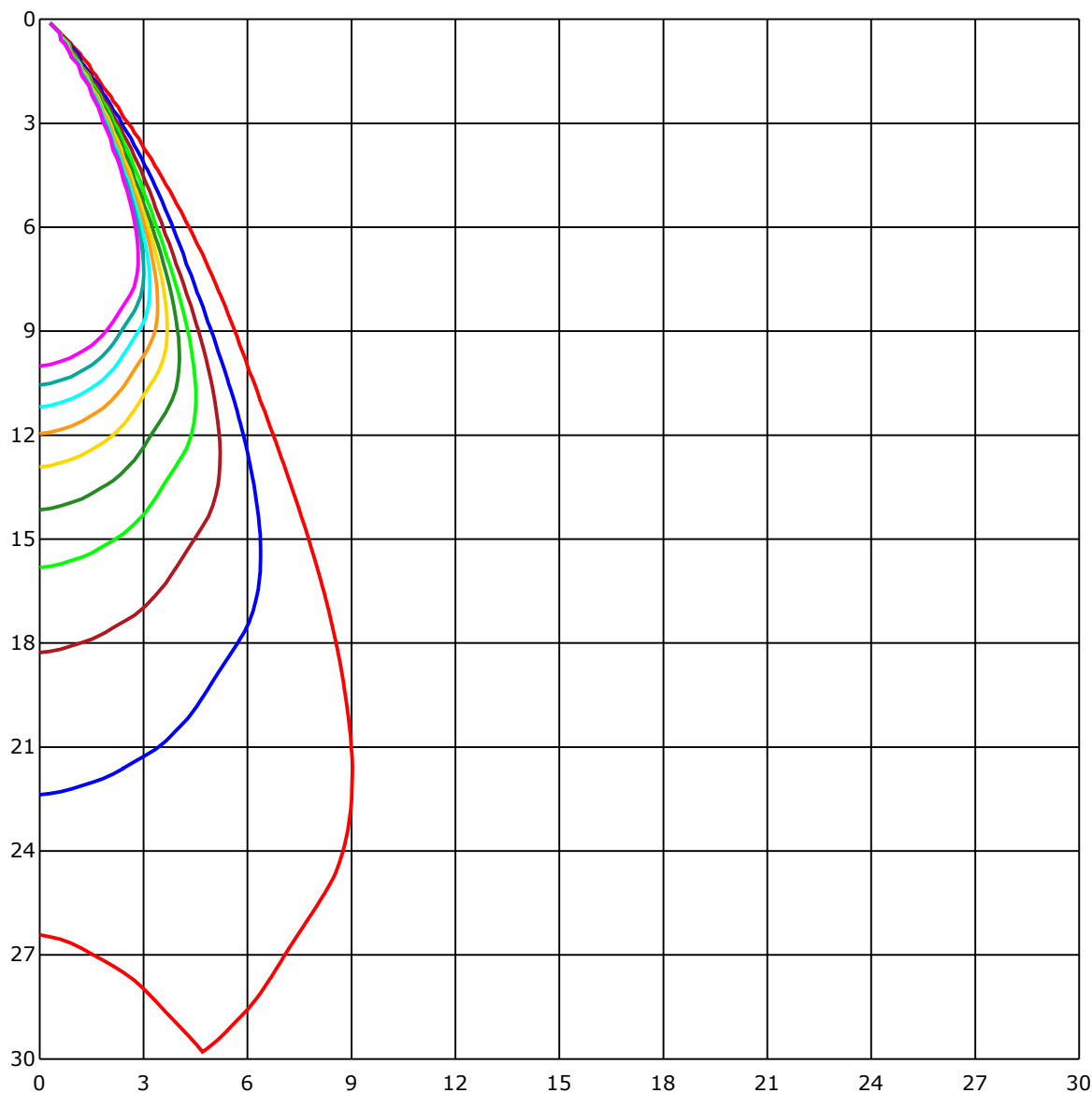
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Humidity: 60
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SPACE ISOLX DIAGRAM



Unit of illumination:lx

20.534	10.267
18.481	8.214
16.428	6.16
14.374	4.107
12.321	2.053

C Range: 0 - 360 Deg

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G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.7 m

Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	2056.23	2048.51	2055.15	2062.83	2056.23	2048.51	2055.15	2062.83	2056.23	
G1	2049.45	2046.8	2058.48	2057.4	2061.93	2053.94	2050.53	2058.84	2049.45	
G2	2037.74	2033.16	2058.25	2044.11	2066.56	2051.16	2040.83	2057.13	2037.74	
G3	2019.65	2018.93	2052.78	2042.99	2062.43	2051.11	2037.15	2044.16	2019.65	
G4	2004.88	2011.75	2042.94	2042.41	2065.34	2041.73	2022.7	2033.52	2004.88	
G5	1989.03	1995.0	2036.48	2027.1	2062.07	2036.12	2016.41	2011.16	1989.03	
G6	1965.55	1973.68	2031.23	2025.75	2054.3	2025.48	1979.92	1997.25	1965.55	
G7	1937.5	1960.08	2019.33	2006.0	2038.77	2014.44	1959.04	1973.36	1937.5	
G8	1914.42	1930.67	1992.35	1989.39	2023.82	2008.29	1928.7	1954.91	1914.42	
G9	1892.07	1910.29	1977.09	1977.36	2005.15	1981.18	1895.12	1925.69	1892.07	
G10	1860.2	1881.12	1945.58	1943.69	1984.63	1948.14	1863.34	1895.39	1860.2	
G11	1820.07	1844.84	1917.93	1913.21	1960.3	1925.42	1833.08	1865.36	1820.07	
G12	1783.66	1803.86	1891.35	1883.09	1934.54	1892.97	1791.74	1832.9	1783.66	
G13	1737.6	1761.75	1865.81	1853.51	1904.77	1865.4	1755.65	1792.64	1737.6	
G14	1687.06	1714.39	1833.35	1814.99	1874.16	1828.86	1714.17	1750.08	1687.06	
G15	1638.58	1675.12	1789.41	1765.43	1835.64	1793.89	1671.75	1709.77	1638.58	
G16	1597.32	1630.09	1743.71	1725.93	1790.75	1757.0	1628.61	1666.86	1597.32	
G17	1558.94	1583.99	1701.47	1673.05	1747.3	1713.95	1591.35	1620.84	1558.94	
G18	1522.22	1547.67	1662.32	1629.28	1708.42	1674.62	1549.92	1583.23	1522.22	
G19	1484.06	1508.62	1619.86	1586.68	1662.68	1635.61	1509.74	1547.63	1484.06	
G20	1430.47	1458.21	1583.72	1550.1	1617.97	1595.93	1468.22	1514.05	1430.47	
G21	1365.11	1396.26	1547.49	1502.6	1581.39	1560.29	1418.21	1472.75	1365.11	
G22	1283.0	1312.99	1494.21	1452.55	1550.82	1515.4	1349.89	1415.83	1283.0	
G23	1188.87	1219.39	1432.04	1385.58	1512.39	1471.09	1272.63	1339.11	1188.87	
G24	1073.54	1115.92	1352.67	1313.8	1461.71	1402.45	1182.72	1250.59	1073.54	
G25	954.36	998.4	1262.76	1210.68	1387.6	1333.14	1077.14	1150.4	954.36	
G26	831.5	881.55	1159.87	1100.66	1308.41	1244.89	961.45	1044.73	831.5	
G27	703.34	756.89	1057.03	987.89	1208.48	1145.95	843.84	928.68	703.34	
G28	580.79	634.39	942.6	871.58	1100.39	1036.2	722.68	803.53	580.79	
G29	472.69	524.9	821.58	744.95	988.88	918.54	604.58	672.95	472.69	
G30	385.43	427.71	699.52	622.35	865.21	792.71	493.57	558.25	385.43	
G31	320.96	353.19	582.72	510.58	736.64	667.65	398.4	453.93	320.96	
G32	273.96	294.84	474.53	415.64	612.57	549.23	327.11	373.4	273.96	
G33	230.33	246.0	393.24	343.0	502.18	449.84	273.83	314.45	230.33	
G34	193.7	204.16	329.0	287.88	413.21	368.77	226.78	264.63	193.7	
G35	157.79	166.63	274.05	240.83	346.01	306.91	189.62	223.33	157.79	
G36	128.43	134.8	227.77	200.93	289.85	258.39	158.33	188.54	128.43	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	100.69	106.79	188.9	163.89	245.19	219.2	130.36	157.2	100.69	
G38	77.66	82.24	155.05	132.96	206.4	183.65	106.43	129.82	77.66	
G39	59.21	63.74	125.51	105.18	171.52	152.76	85.78	105.49	59.21	
G40	44.08	48.12	100.87	82.01	142.03	126.5	67.51	84.84	44.08	
G41	32.95	36.27	80.49	62.67	113.62	102.17	53.82	67.47	32.95	
G42	24.78	27.79	63.74	47.0	89.56	82.37	41.25	53.55	24.78	
G43	18.94	21.46	50.59	35.37	69.58	65.67	32.05	42.69	18.94	
G44	15.04	16.88	40.45	27.07	54.45	52.07	25.09	34.07	15.04	
G45	11.99	13.47	32.86	21.05	42.65	41.79	19.75	27.83	11.99	
G46	9.83	10.91	27.16	16.43	33.98	33.76	15.35	23.21	9.83	
G47	8.44	9.07	22.85	13.06	27.56	27.61	12.25	19.53	8.44	
G48	7.32	7.54	19.44	10.86	23.03	22.98	10.06	17.15	7.32	
G49	6.11	6.37	16.97	8.75	19.57	19.66	8.3	14.81	6.11	
G50	5.21	5.43	14.9	7.5	17.33	16.97	6.91	13.33	5.21	
G51	4.4	4.62	13.24	6.33	15.13	15.04	5.97	11.9	4.4	
G52	3.73	3.73	11.9	5.66	13.69	13.42	5.07	10.91	3.73	
G53	3.01	3.19	10.59	4.67	12.3	12.21	4.44	9.79	3.01	
G54	2.47	2.51	9.61	4.08	11.27	11.04	3.77	8.98	2.47	
G55	1.93	1.98	8.62	3.5	10.28	10.15	3.28	8.08	1.93	
G56	1.57	1.39	7.63	3.05	9.43	9.02	2.74	7.36	1.57	
G57	1.26	1.03	6.96	2.6	8.48	8.21	2.2	6.51	1.26	
G58	1.08	0.72	6.24	2.11	7.81	7.54	1.57	6.02	1.08	
G59	0.67	0.45	5.61	1.48	7.0	6.82	1.21	5.57	0.67	
G60	0.22	0.27	5.03	1.17	6.51	6.15	0.85	5.03	0.22	
G61	0.18	0.09	4.49	0.85	5.93	5.66	0.63	4.44	0.18	
G62	0.04	0.04	4.13	0.63	5.34	5.03	0.49	4.04	0.04	
G63	0.0	0.0	3.82	0.4	4.85	4.53	0.4	3.95	0.0	
G64	0.0	0.0	3.41	0.22	4.44	4.17	0.18	3.41	0.0	
G65	0.0	0.0	3.14	0.0	4.04	3.77	0.0	2.92	0.0	
G66	0.0	0.0	2.56	0.0	3.73	3.32	0.0	2.2	0.0	
G67	0.0	0.0	2.02	0.0	3.14	2.92	0.0	1.48	0.0	
G68	0.0	0.0	1.3	0.0	2.69	2.11	0.0	1.08	0.0	
G69	0.0	0.0	0.99	0.0	1.66	1.3	0.0	0.94	0.0	
G70	0.0	0.0	0.9	0.0	1.08	1.19	0.0	0.81	0.0	
G71	0.0	0.0	0.81	0.0	0.94	1.08	0.0	0.72	0.0	
G72	0.0	0.0	0.72	0.0	0.81	0.67	0.0	0.63	0.0	
G73	0.0	0.0	0.63	0.0	0.76	0.63	0.0	0.61	0.0	

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Temperature: 25
Operators: QC01
Test Date: 2024/6/27 17:36:23

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks: