

Report No.:

Test Time: 2024/10/27 14:49:59

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP151CT095H88-45°-15W
Lamp Type:
Luminous Width: 80 mm
Luminous Length: 80 mm
Luminous Height: 70 mm

Voltage(V): 219.40 V
Current(A): 0.0700 A
Power(W): 14.37 W
Power Factor: 0.9280
Lamp Luminous Flux: 1363.25

Photometric Results

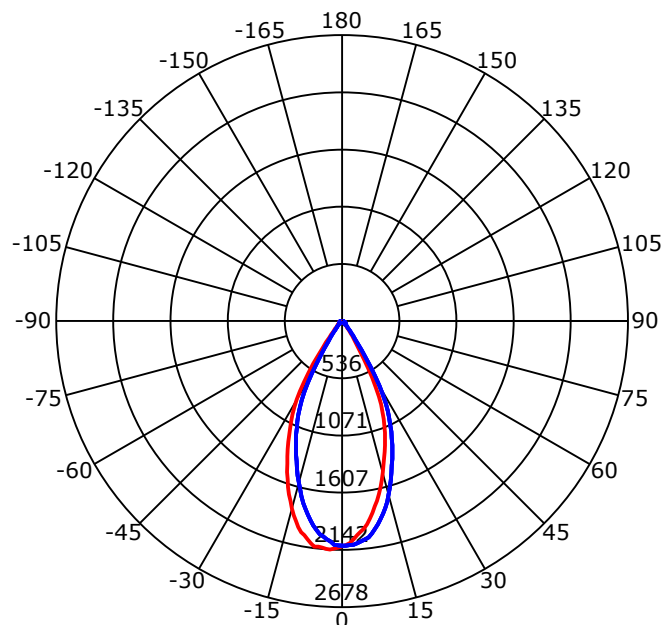
CIE Class: Direct
Luminaire Luminous Flux: 1363.245 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 94.87 lm/W
Beam Angle(50%) C0-180,C90-270: 48.4,48.9
Field Angle(10%) C0-180,C90-270: 70.6,70.5
S/MH C0-180,C90-270: 0.768,0.768

Max. Intensity: 2142.11 cd
Max.Intensity Angle: C=180 Gamma=3
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 2110.48 cd
Effective Luminous Flux: 1230.98 lm
ERP(ϕ use)(120deg): 1339.35 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 48.4 deg,48.9 deg

C0-180 — C90-270 —

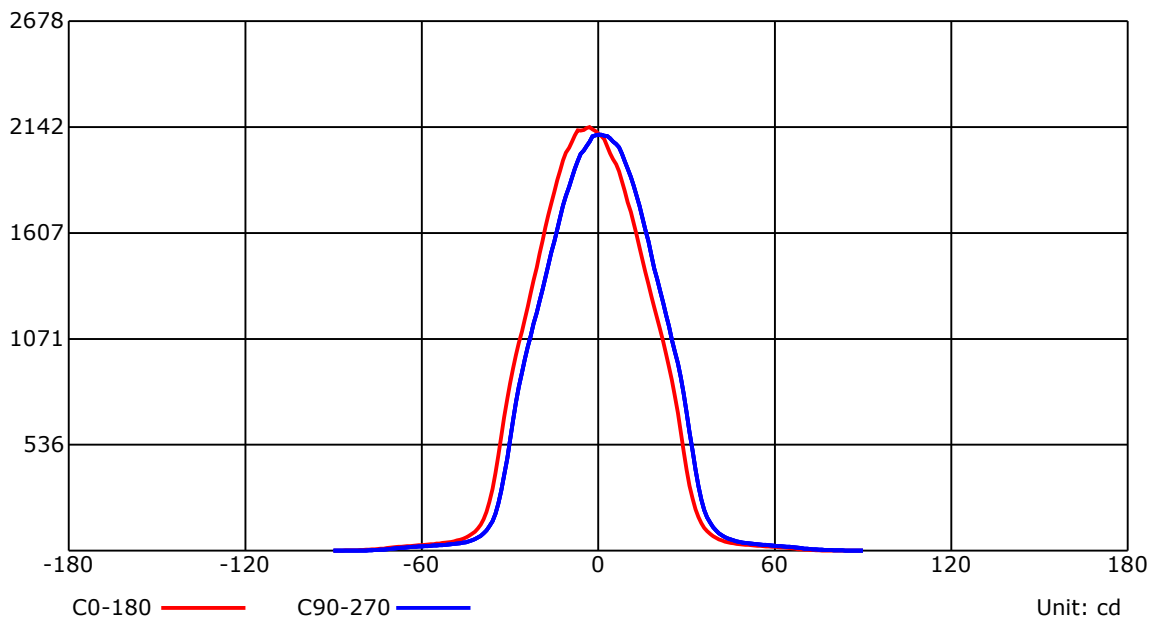
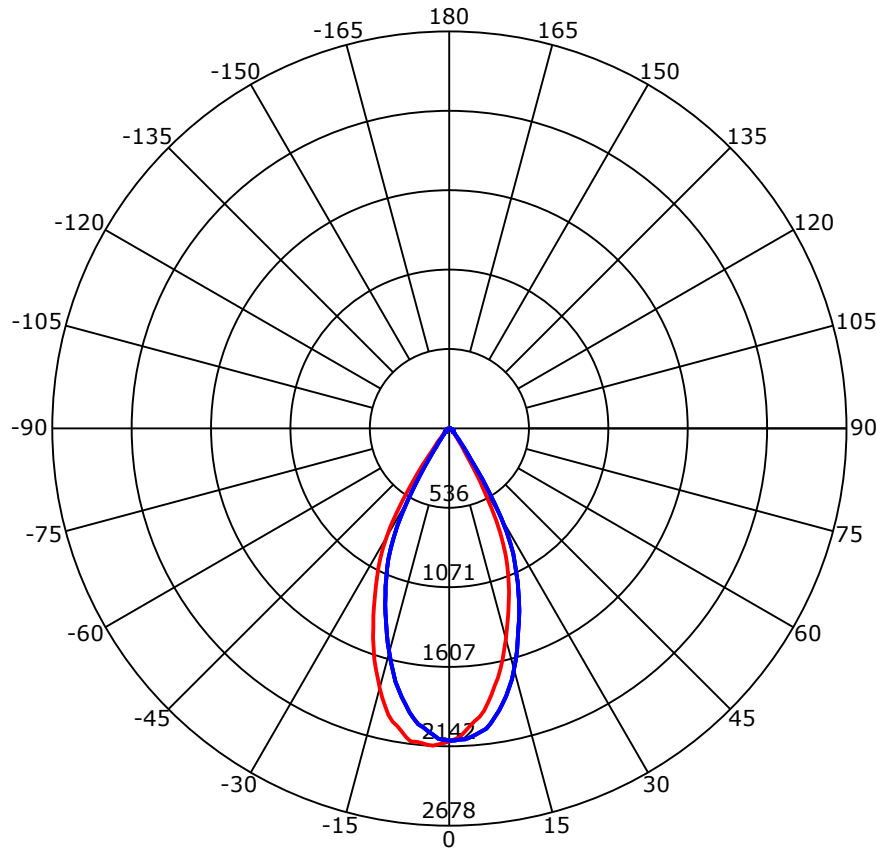
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/10/27 14:49:59

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

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Luminous Intensity Distribution Curve



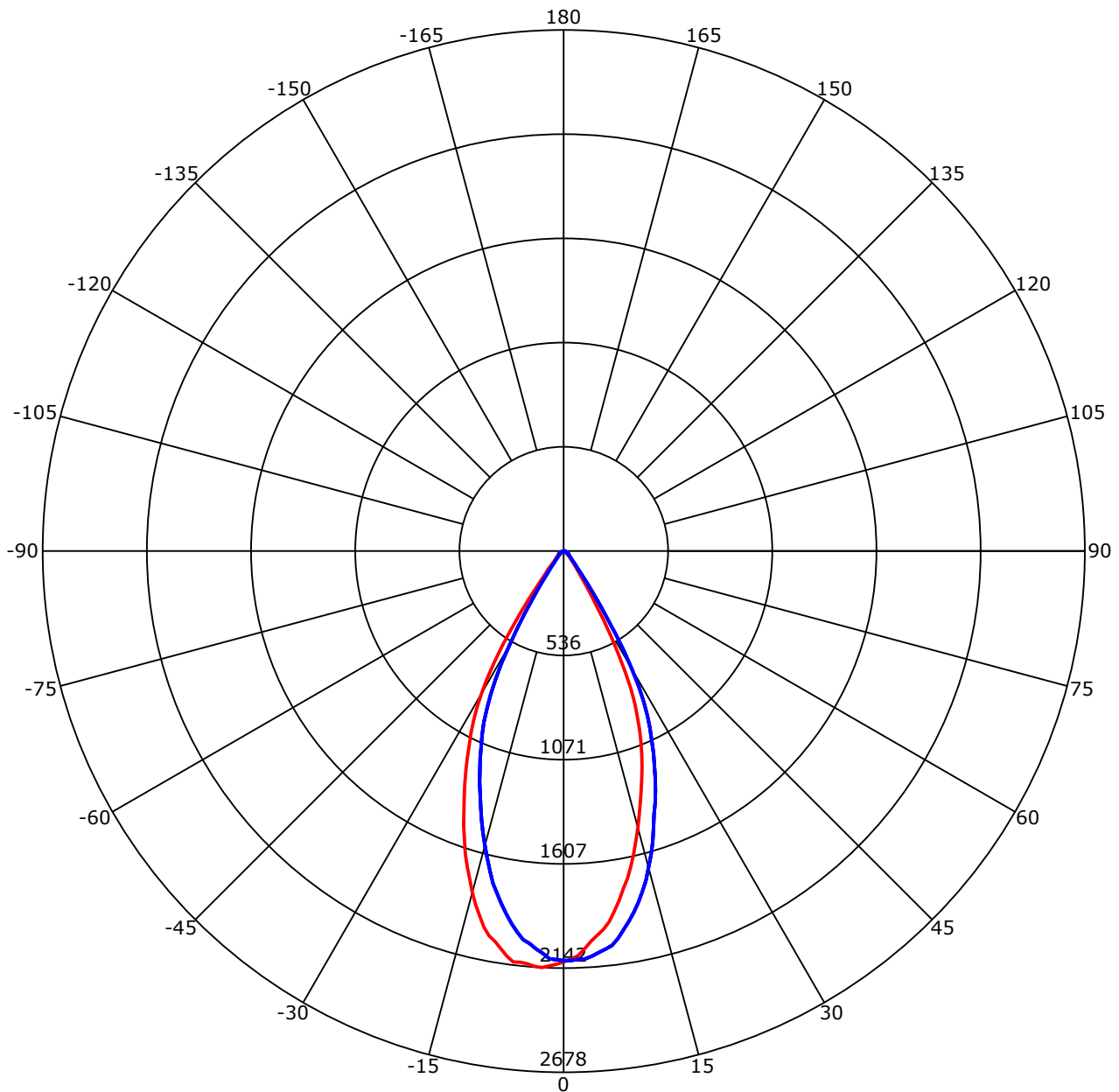
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Luminous Intensity Distribution Curve



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: 2024/10/27 14:49:59

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

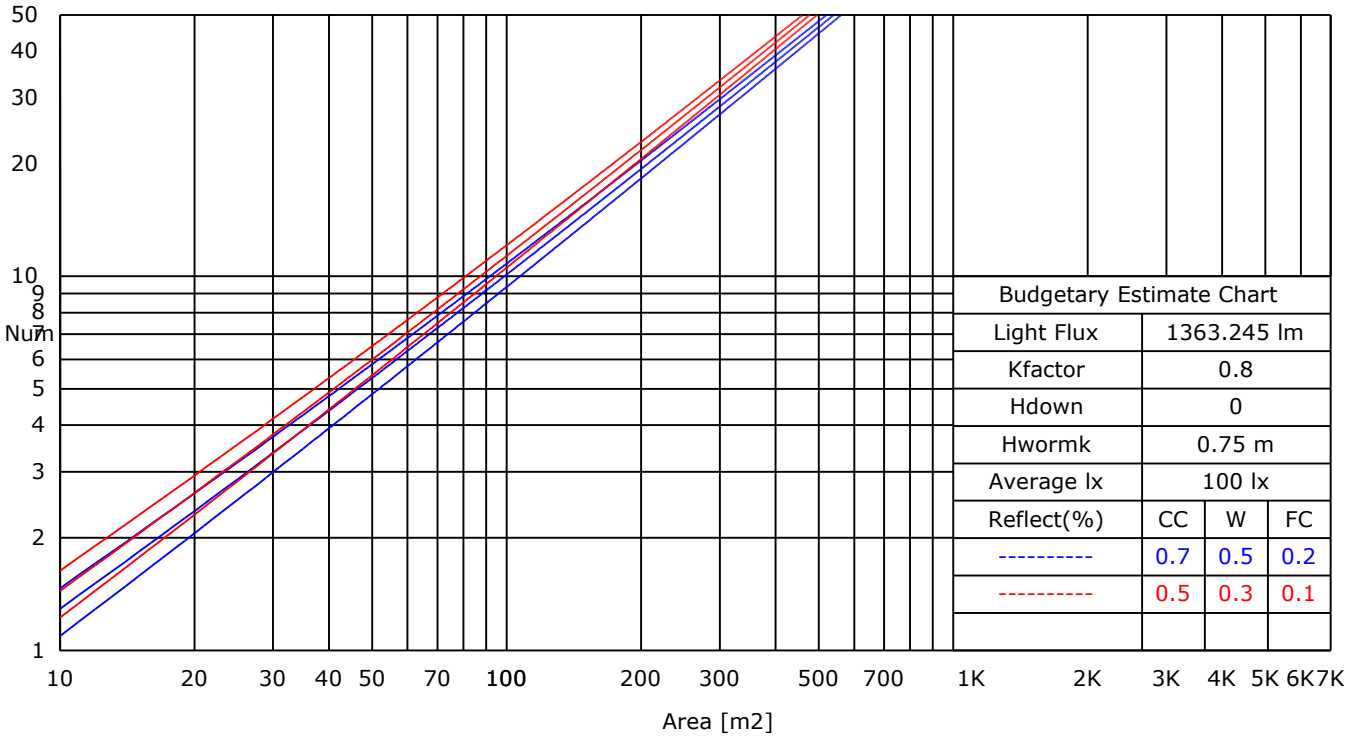
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UTILIZATION FACTORS TABLE

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	1.04	1.02	1.00	1.02	1.00	0.98	0.99	0.96	0.94	0.94	0.92	0.89	0.88	0.85	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	0.92	0.90	0.91	0.88	0.86	0.88	0.84	0.82	0.83	0.80	0.77	0.72
4	0.92	0.90	0.89	0.91	0.89	0.87	0.88	0.85	0.83	0.85	0.81	0.79	0.81	0.77	0.74	0.70
5	0.89	0.87	0.86	0.88	0.85	0.84	0.85	0.82	0.80	0.82	0.79	0.76	0.78	0.75	0.71	0.68
6	0.86	0.84	0.83	0.85	0.83	0.81	0.82	0.80	0.78	0.80	0.76	0.74	0.76	0.72	0.69	0.65
7	0.83	0.82	0.81	0.82	0.80	0.79	0.80	0.77	0.75	0.77	0.74	0.71	0.74	0.70	0.67	0.64
8	0.81	0.79	0.79	0.80	0.78	0.77	0.78	0.75	0.73	0.75	0.72	0.69	0.72	0.68	0.65	0.62
9	0.79	0.77	0.77	0.78	0.76	0.75	0.76	0.73	0.71	0.73	0.70	0.67	0.71	0.67	0.64	0.60
10	0.77	0.75	0.75	0.76	0.74	0.73	0.74	0.71	0.69	0.71	0.68	0.66	0.69	0.65	0.62	0.59

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



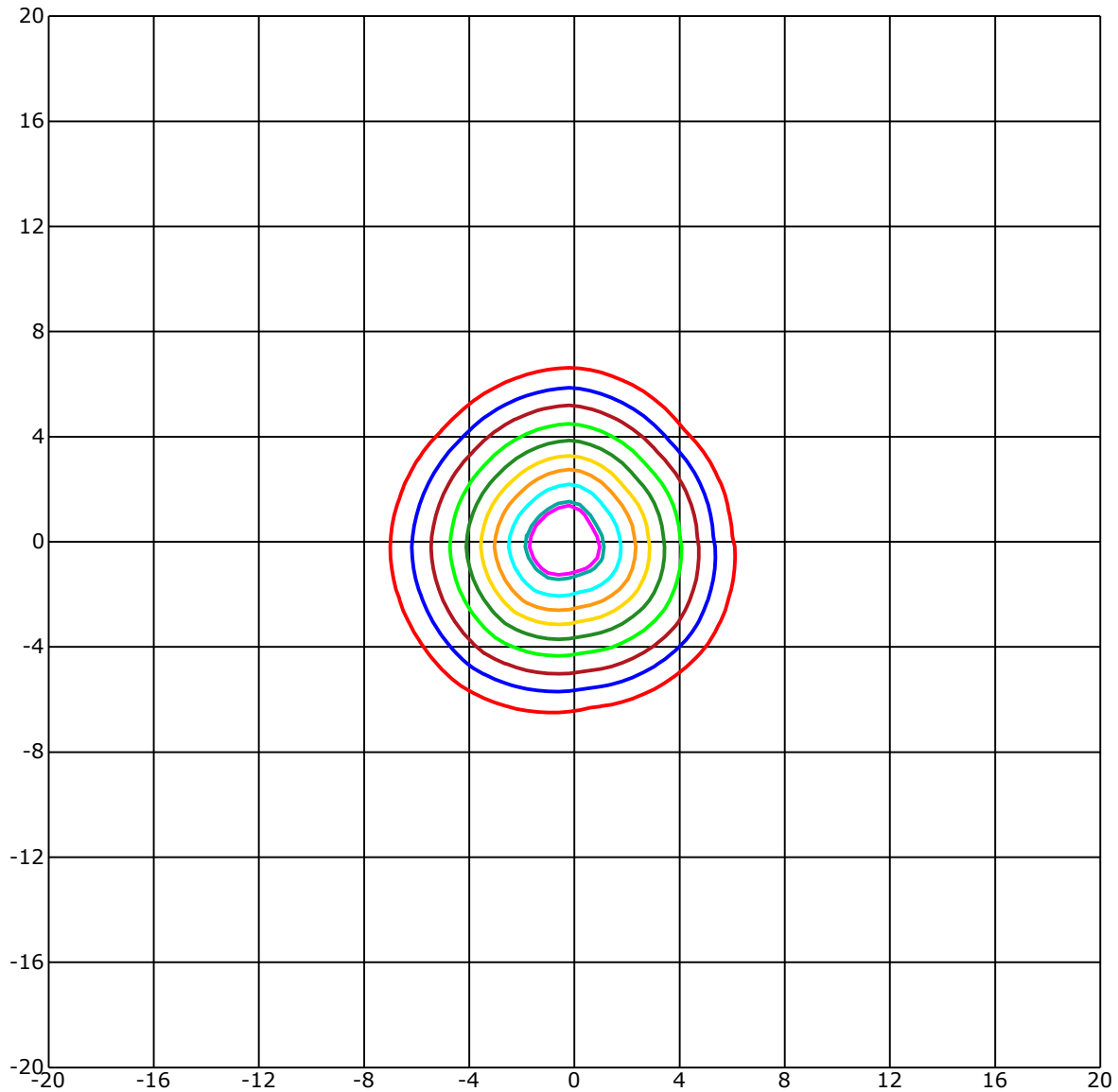
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Operators: QC01
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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ISOLX DIAGRAM



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

19.627(92%Emax)	10.667(50%Emax)
19.2(90%Emax)	8.533(40%Emax)
17.067(80%Emax)	6.4(30%Emax)
14.933(70%Emax)	4.267(20%Emax)
12.8(60%Emax)	2.133(10%Emax)

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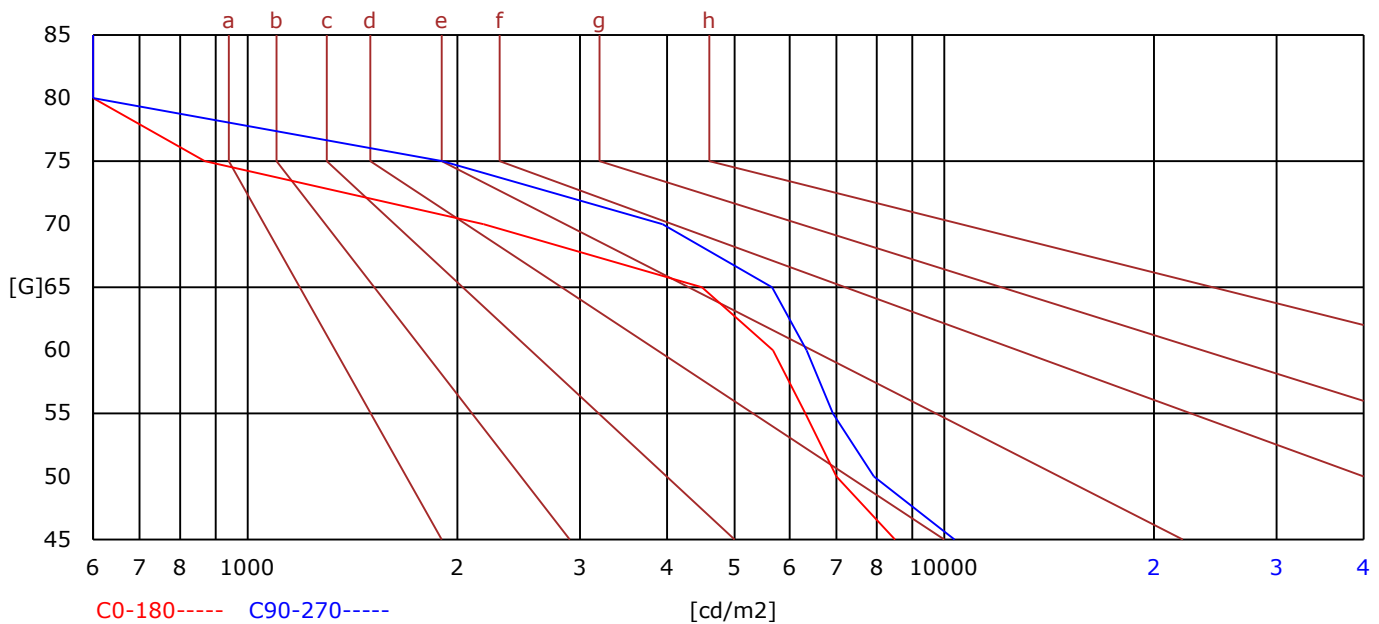
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	8495	7001	6317	5681	4492	2182	868	0	0
C90	10340	7925	6923	6348	5658	3941	1904	42	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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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	8.48	8.53	8.68	8.72	8.96	8.79	8.84	8.99	9.02	9.27
	3H	8.51	8.56	8.71	8.75	9.00	8.79	8.84	9.00	9.03	9.28
	4H	8.50	8.55	8.71	8.75	8.99	8.78	8.83	8.99	9.02	9.27
	6H	8.48	8.53	8.70	8.73	8.98	8.76	8.81	8.97	9.01	9.26
	8H	8.47	8.52	8.69	8.73	8.98	8.75	8.80	8.97	9.00	9.26
	12H	8.46	8.51	8.68	8.72	8.97	8.74	8.79	8.96	9.00	9.25
4H	2H	8.93	8.98	9.14	9.17	9.42	9.58	9.63	9.79	9.82	10.07
	3H	8.95	9.00	9.17	9.21	9.46	9.58	9.63	9.81	9.84	10.10
	4H	8.94	8.99	9.17	9.20	9.46	9.56	9.62	9.79	9.83	10.09
	6H	8.92	8.97	9.16	9.19	9.45	9.54	9.59	9.78	9.81	10.08
	8H	8.91	8.95	9.15	9.18	9.45	9.53	9.58	9.77	9.80	10.07
	12H	8.89	8.94	9.14	9.17	9.44	9.52	9.56	9.76	9.79	10.06
8H	4H	8.90	8.95	9.12	9.16	9.41	9.62	9.67	9.83	9.87	10.12
	6H	8.88	8.92	9.13	9.16	9.44	9.57	9.62	9.83	9.86	10.13
	8H	8.86	8.91	9.13	9.15	9.43	9.56	9.60	9.82	9.85	10.12
	12H	8.85	8.89	9.12	9.14	9.42	9.54	9.58	9.81	9.84	10.12
12H	4H	8.89	8.94	9.14	9.17	9.44	9.60	9.65	9.85	9.88	10.15
	6H	8.86	8.91	9.13	9.15	9.43	9.57	9.62	9.83	9.86	10.14

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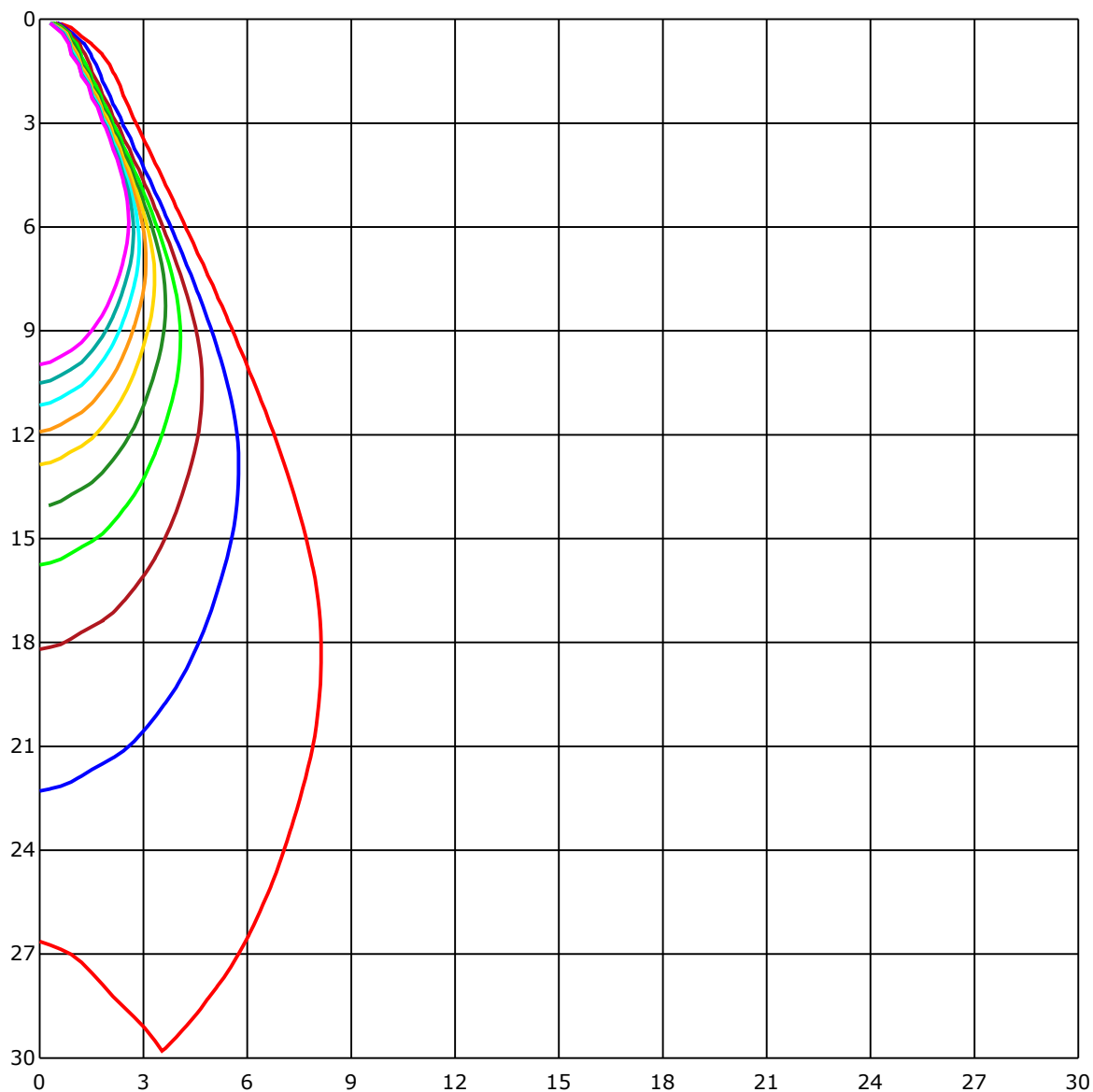
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SPACE ISOLX DIAGRAM



21.245

19.12

16.996

14.871

12.747

10.622

8.498

6.373

4.249

2.124

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	2110.48	2087.99	2103.48	2119.06	2110.48	2087.99	2103.48	2119.06	2110.48	
G1	2096.62	2075.98	2103.81	2131.54	2122.45	2099.21	2099.45	2104.83	2096.62	
G2	2080.2	2055.34	2099.31	2126.44	2131.21	2105.85	2095.5	2094.62	2080.2	
G3	2044.86	2039.53	2097.27	2121.75	2142.11	2107.28	2068.28	2076.3	2044.86	
G4	2008.73	2006.65	2085.26	2123.42	2137.89	2098.52	2047.13	2048.29	2008.73	
G5	1980.86	1980.54	2069.86	2119.67	2128.43	2098.94	2023.25	2020.24	1980.86	
G6	1954.06	1940.1	2055.62	2097.73	2123.75	2081.04	2005.91	1999.27	1954.06	
G7	1918.02	1903.51	2040.36	2057.8	2126.81	2070.83	1970.61	1967.83	1918.02	
G8	1867.98	1853.24	2007.53	2034.33	2100.79	2052.84	1932.17	1934.3	1867.98	
G9	1818.04	1807.74	1968.71	2002.57	2067.54	2029.79	1886.21	1882.68	1818.04	
G10	1761.83	1757.56	1931.01	1957.67	2036.19	2001.69	1840.25	1837.28	1761.83	
G11	1713.5	1704.41	1889.32	1909.58	2012.91	1965.65	1794.15	1788.31	1713.5	
G12	1655.67	1649.6	1844.1	1865.06	1973.49	1921.55	1745.92	1741.1	1655.67	
G13	1596.96	1599.42	1794.52	1805.14	1922.8	1877.72	1685.26	1683.45	1596.96	
G14	1533.06	1534.21	1744.11	1748.33	1872.71	1825.41	1624.0	1628.78	1533.06	
G15	1472.77	1471.24	1684.71	1692.59	1814.6	1773.14	1565.01	1567.14	1472.77	
G16	1409.74	1400.84	1624.0	1637.12	1753.3	1722.18	1505.83	1505.28	1409.74	
G17	1347.83	1345.09	1563.99	1578.41	1696.9	1664.67	1443.46	1445.54	1347.83	
G18	1288.1	1283.51	1494.52	1519.88	1634.71	1602.67	1380.57	1389.47	1288.1	
G19	1230.78	1224.98	1427.41	1447.07	1565.8	1539.59	1320.24	1327.84	1230.78	
G20	1175.36	1167.15	1374.31	1384.61	1503.33	1475.41	1262.5	1272.47	1175.36	
G21	1120.03	1104.59	1316.99	1318.24	1431.86	1412.76	1204.02	1215.7	1120.03	
G22	1057.89	1042.72	1253.73	1251.23	1366.47	1347.78	1148.41	1157.59	1057.89	
G23	995.23	985.03	1191.91	1194.46	1302.15	1283.41	1084.51	1106.3	995.23	
G24	929.15	916.76	1134.5	1133.66	1234.81	1231.84	1032.01	1052.69	929.15	
G25	863.2	844.6	1067.39	1062.57	1172.85	1175.22	970.56	993.19	863.2	
G26	786.07	767.25	1009.24	999.03	1108.9	1106.58	901.69	931.05	786.07	
G27	696.24	678.95	947.56	930.21	1051.67	1048.89	829.99	860.69	696.24	
G28	599.97	585.41	876.42	856.29	988.92	986.14	750.5	781.44	599.97	
G29	502.44	491.03	793.73	772.67	921.63	923.9	659.51	691.56	502.44	
G30	410.38	400.97	700.33	681.4	848.82	844.23	563.75	592.36	410.38	
G31	329.5	320.18	600.85	580.95	767.01	754.96	466.96	493.95	329.5	
G32	263.0	254.14	503.83	484.49	674.26	662.07	380.52	402.17	263.0	
G33	210.04	201.74	409.36	391.6	576.27	567.46	303.21	321.11	210.04	
G34	169.74	163.24	327.46	310.21	480.46	469.47	237.82	254.79	169.74	
G35	139.5	135.0	259.01	242.45	392.06	380.79	186.15	202.01	139.5	
G36	115.99	112.23	206.19	190.33	312.44	303.21	150.12	165.33	115.99	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	98.41	94.65	168.72	151.46	246.07	240.09	123.5	137.46	98.41	
G38	84.64	81.16	140.89	124.1	195.99	191.72	103.0	116.82	84.64	
G39	73.51	70.91	118.86	102.91	159.58	157.63	87.7	100.59	73.51	
G40	64.88	62.47	101.98	87.23	132.26	131.34	75.64	88.58	64.88	
G41	57.65	55.42	88.44	75.18	111.86	110.93	66.41	78.47	57.65	
G42	51.52	49.62	78.0	65.85	95.86	95.02	58.85	70.21	51.52	
G43	46.52	44.71	68.96	58.06	84.13	82.83	52.31	62.98	46.52	
G44	42.9	41.32	62.0	52.08	74.2	73.69	47.16	57.69	42.9	
G45	39.79	38.45	56.35	46.79	66.5	66.18	43.27	53.05	39.79	
G46	37.15	35.9	51.76	42.76	60.43	59.83	40.21	49.48	37.15	
G47	35.01	33.76	47.58	39.56	55.56	54.72	37.47	46.14	35.01	
G48	33.25	31.95	44.29	36.96	51.43	50.74	35.52	43.87	33.25	
G49	31.63	30.47	41.65	34.6	47.63	46.93	33.85	41.37	31.63	
G50	30.1	28.8	39.47	32.6	44.89	44.43	32.28	39.61	30.1	
G51	28.94	27.73	37.52	31.07	42.71	42.11	30.84	38.12	28.94	
G52	27.45	26.67	35.85	29.59	40.49	39.88	29.82	36.59	27.45	
G53	26.39	25.46	34.09	28.1	38.49	38.31	28.71	35.25	26.39	
G54	25.14	24.21	32.7	26.76	36.78	36.73	27.69	33.99	25.14	
G55	24.02	23.19	31.26	25.41	35.34	35.29	26.57	32.6	24.02	
G56	23.14	22.21	30.01	24.44	33.53	33.81	25.6	31.16	23.14	
G57	22.17	21.15	28.8	23.33	32.19	32.56	24.63	30.05	22.17	
G58	21.19	20.17	27.41	22.4	30.93	31.35	23.74	28.75	21.19	
G59	20.13	19.25	26.3	21.15	29.63	30.01	22.96	27.5	20.13	
G60	19.25	18.18	25.32	20.31	28.47	28.89	21.94	26.43	19.25	
G61	18.27	17.11	23.88	19.29	27.41	27.92	20.92	25.27	18.27	
G62	17.11	15.95	22.86	18.36	26.11	26.57	20.13	24.25	17.11	
G63	15.86	14.75	21.56	17.39	25.18	25.65	19.06	23.1	15.86	
G64	14.56	13.54	20.45	16.32	23.88	24.49	18.13	21.84	14.56	
G65	13.03	12.15	19.15	15.3	22.77	23.42	17.02	20.59	13.03	
G66	11.5	10.48	17.95	14.1	21.56	22.31	15.77	19.15	11.5	
G67	9.65	8.49	16.42	13.03	20.5	21.15	14.52	17.76	9.65	
G68	7.7	6.54	14.89	11.73	19.06	19.8	13.31	16.0	7.7	
G69	6.35	5.61	12.85	10.39	17.76	18.64	11.59	14.14	6.35	
G70	5.43	4.78	10.85	8.63	16.32	17.44	9.83	11.87	5.43	
G71	4.54	3.99	9.55	6.77	14.7	15.68	7.79	10.2	4.54	
G72	3.76	3.29	8.39	5.8	12.85	13.96	6.54	9.18	3.76	
G73	3.11	2.6	7.51	4.82	10.71	12.15	5.57	8.21	3.11	

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Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

[illegible]

C Range: 0 - 360 Deg
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