

Report No.:

Test Time: 2024/12/19 16:32:13

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP151CT075H76-38°-15W
Lamp Type:
Luminous Width: 60 mm
Luminous Length: 60 mm
Luminous Height: 50 mm

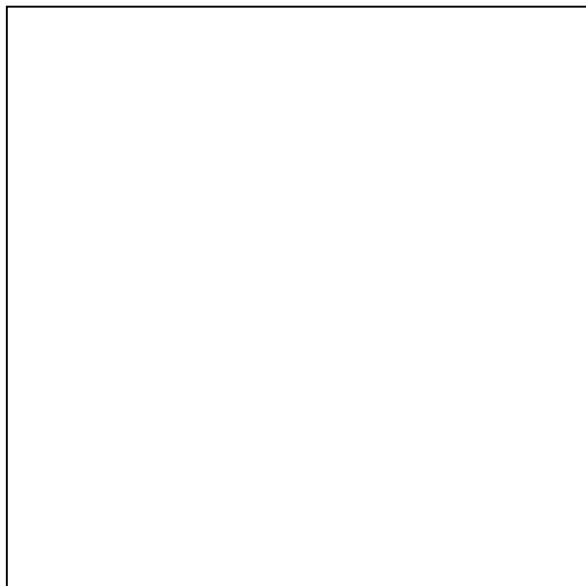
Voltage(V): 219.90 V
Current(A): 0.0740 A
Power(W): 15.67 W
Power Factor: 0.9520
Lamp Luminous Flux: 1284.32

Photometric Results

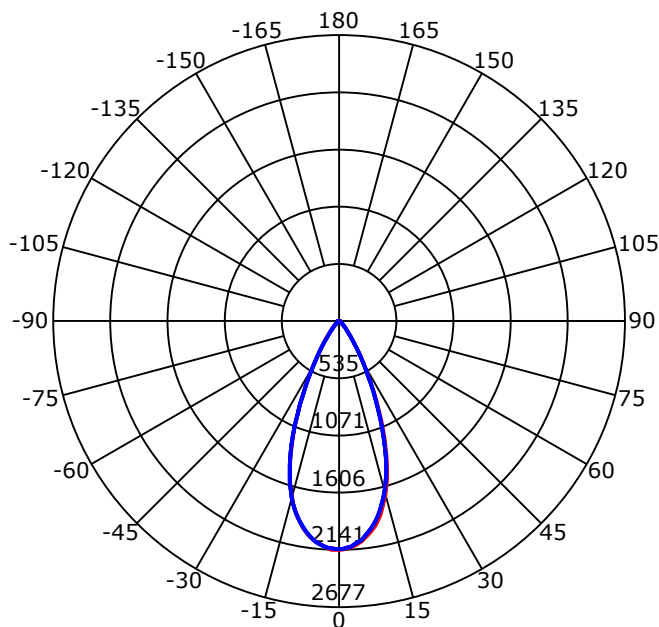
CIE Class: Direct
Luminaire Luminous Flux: 1284.318 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 81.96 lm/W
Beam Angle(50%) C0-180,C90-270: 45.2,45.0
Field Angle(10%) C0-180,C90-270: 71.8,71.4
S/MH C0-180,C90-270: 0.728,0.728

Max. Intensity: 2141.42 cd
Max.Intensity Angle: C=180 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 2141.32 cd
Effective Luminous Flux: 1160.62 lm
ERP(ϕ use)(120deg): 1275.52 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 45.2 deg,45.0 deg

C0-180 — C90-270

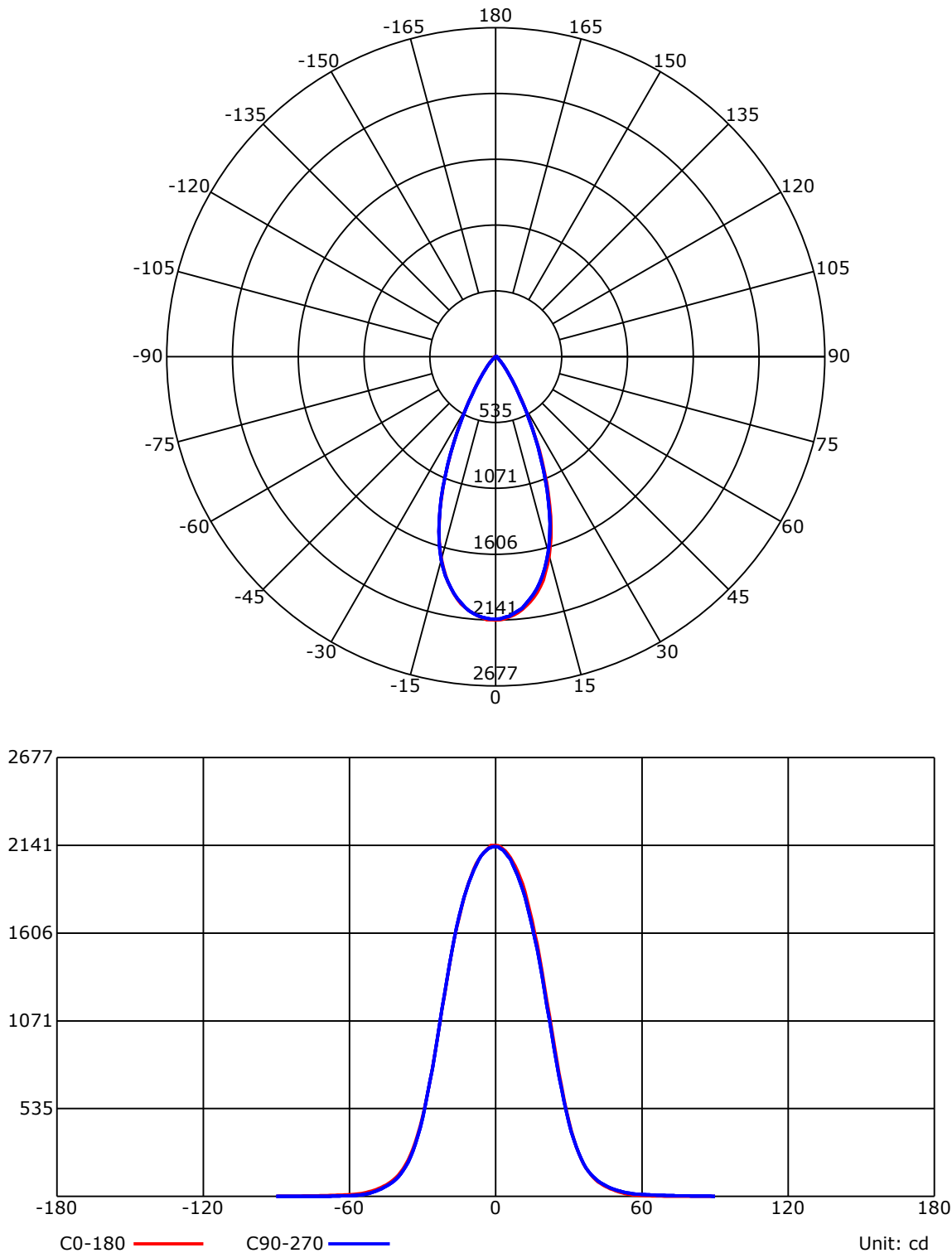
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/12/19 16:32:13

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



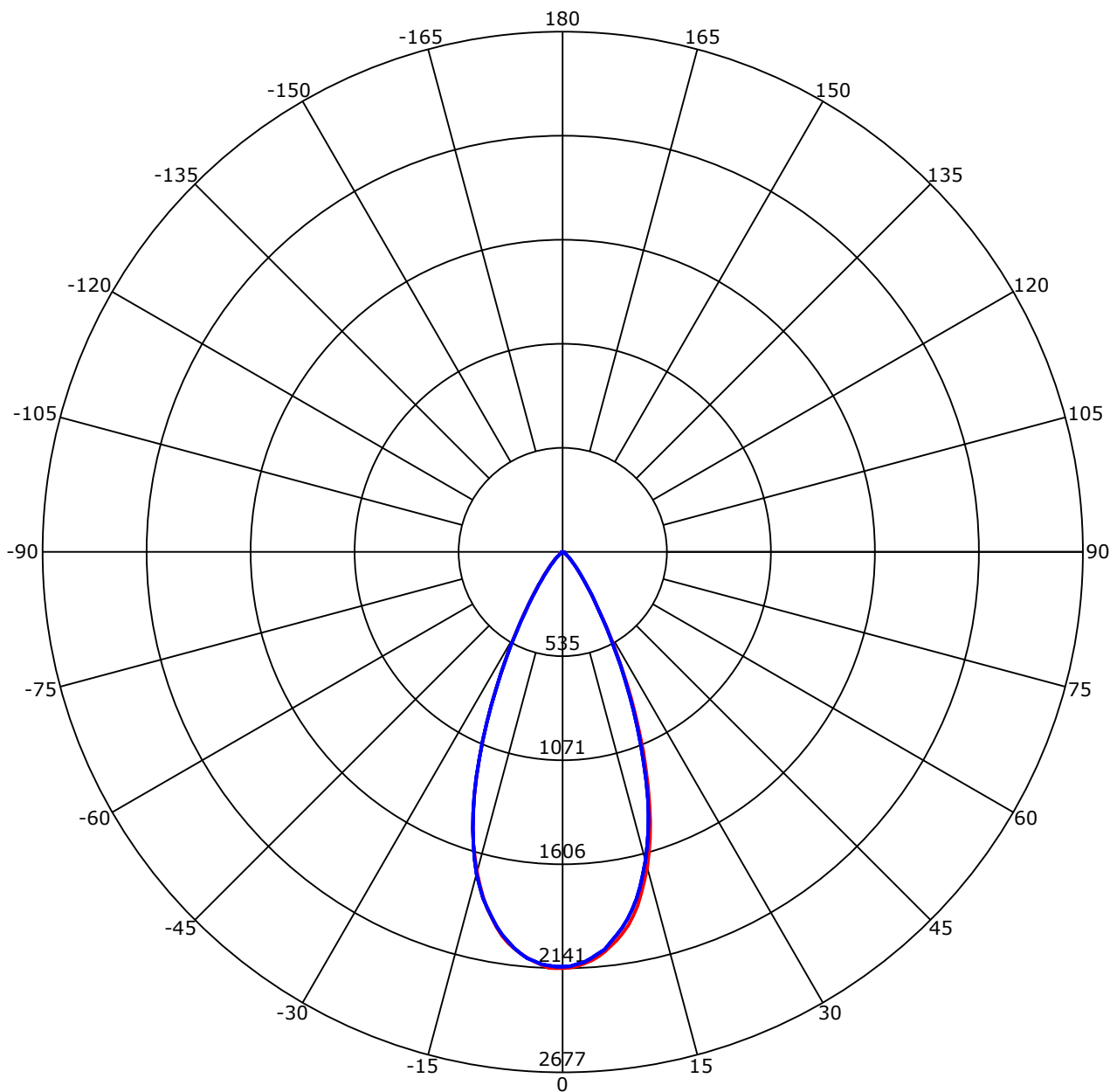
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

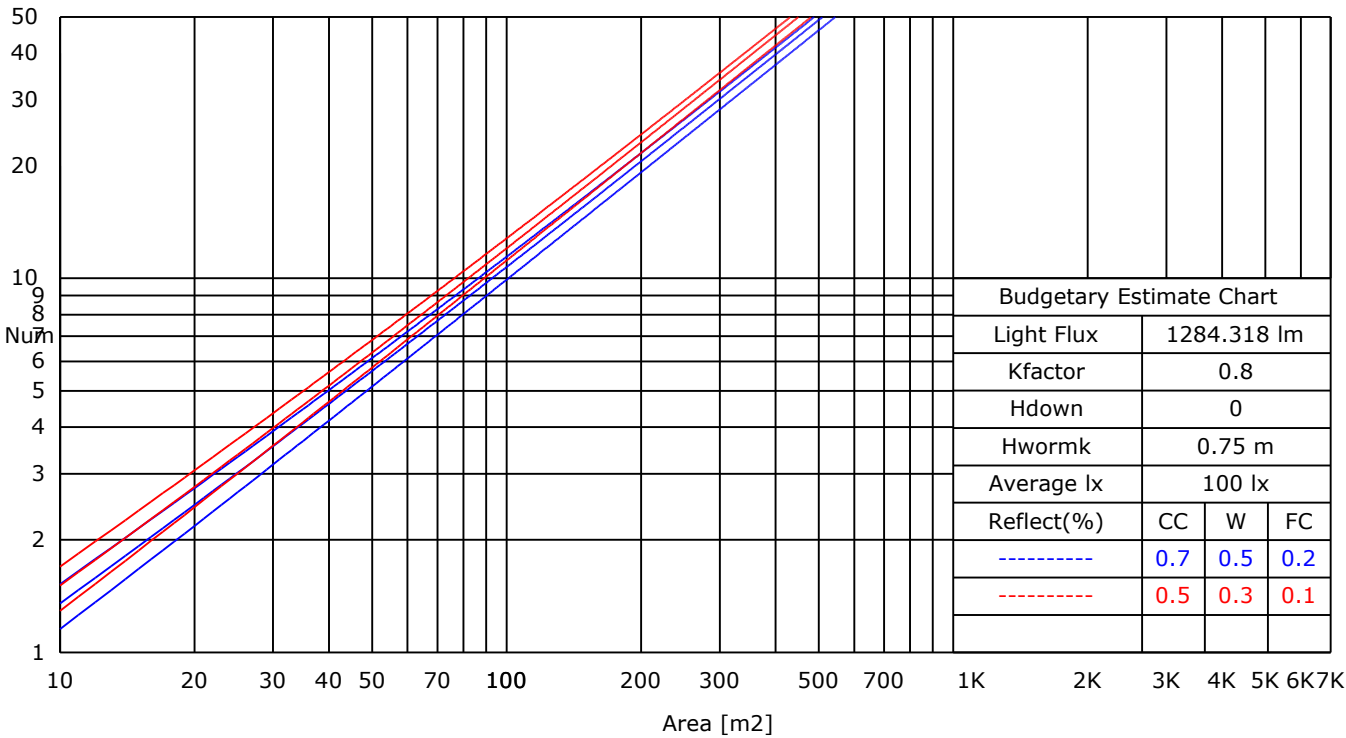
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UTILIZATION FACTORS TABLE

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	0.99	0.97	0.96	0.98	0.96	0.94	0.95	0.92	0.90	0.91	0.88	0.86	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	0.86	0.84	0.85	0.82	0.80	0.82	0.79	0.76	0.79	0.75	0.72	0.68
6	0.86	0.85	0.84	0.85	0.83	0.82	0.83	0.80	0.78	0.80	0.77	0.74	0.77	0.73	0.70	0.66
7	0.84	0.82	0.82	0.83	0.81	0.80	0.80	0.78	0.76	0.78	0.74	0.72	0.75	0.71	0.68	0.64
8	0.81	0.80	0.79	0.81	0.79	0.78	0.78	0.76	0.74	0.76	0.72	0.70	0.73	0.69	0.66	0.62
9	0.79	0.78	0.77	0.78	0.77	0.76	0.76	0.74	0.72	0.74	0.70	0.68	0.71	0.67	0.64	0.61
10	0.77	0.76	0.76	0.77	0.75	0.74	0.74	0.72	0.70	0.72	0.69	0.66	0.70	0.66	0.63	0.59

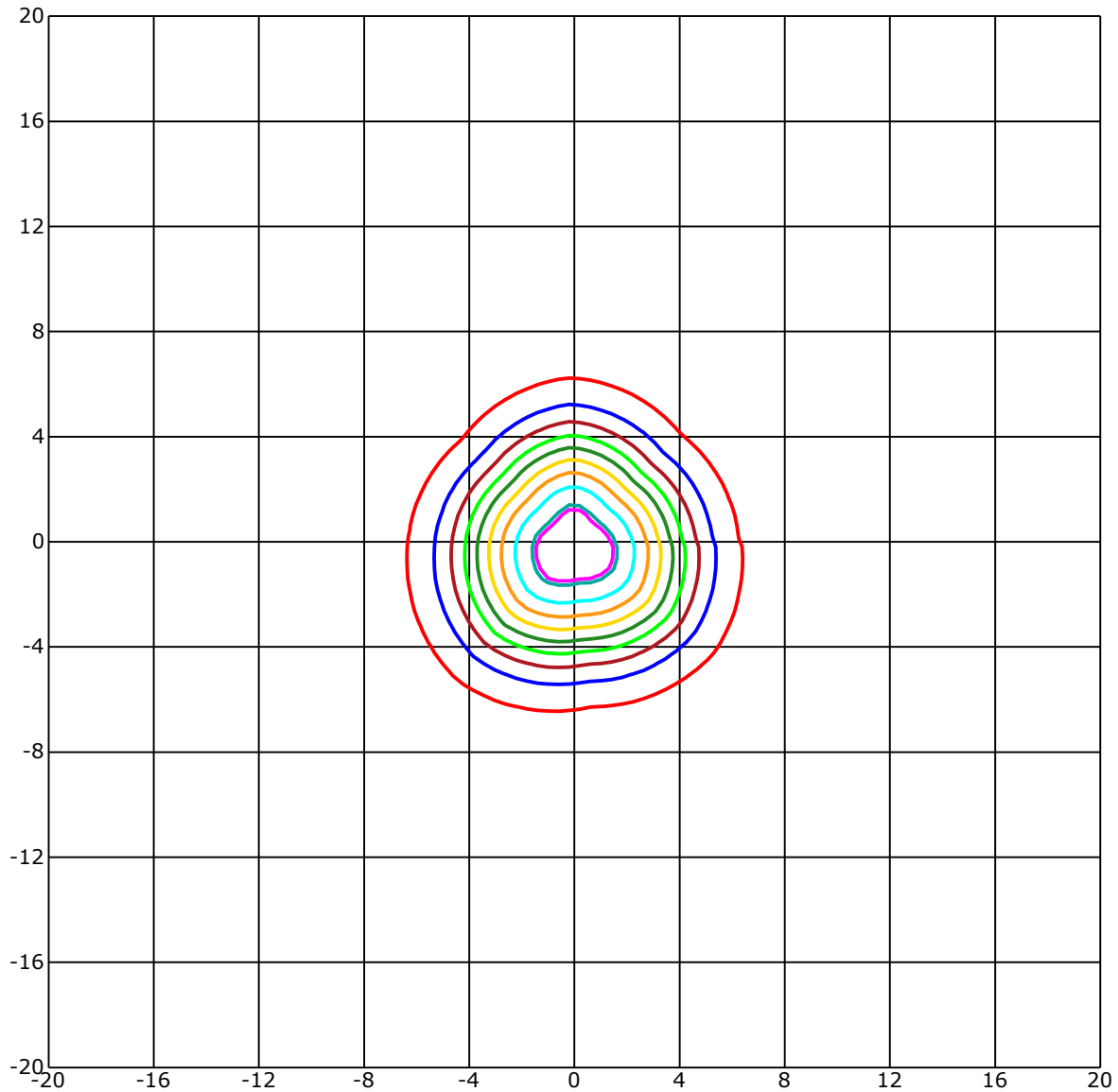
LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



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ISOLX DIAGRAM



19.7(92%Emax)	10.707(50%Emax)
19.272(90%Emax)	8.565(40%Emax)
17.131(80%Emax)	6.424(30%Emax)
14.989(70%Emax)	4.283(20%Emax)
12.848(60%Emax)	2.141(10%Emax)

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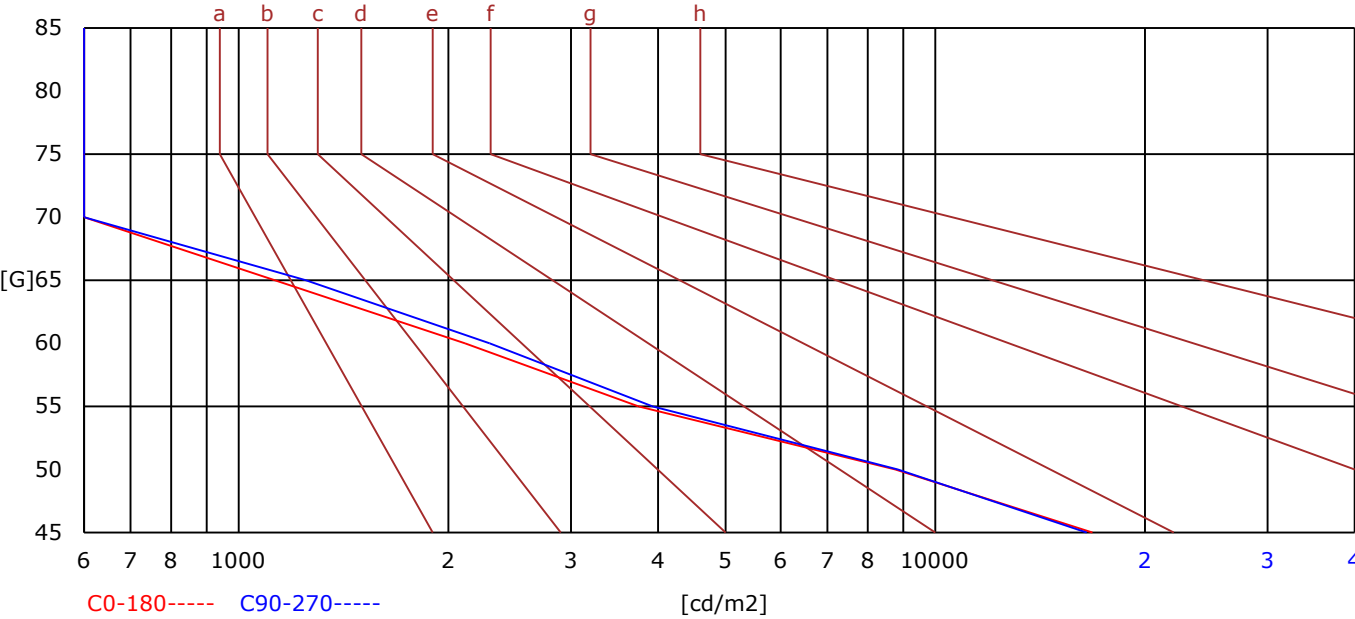
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	16815	8758	3751	2113	1128	264	0	0	0
C90	16488	8838	3930	2293	1250	377	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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UGR(Unified Glare Rating) TABLE

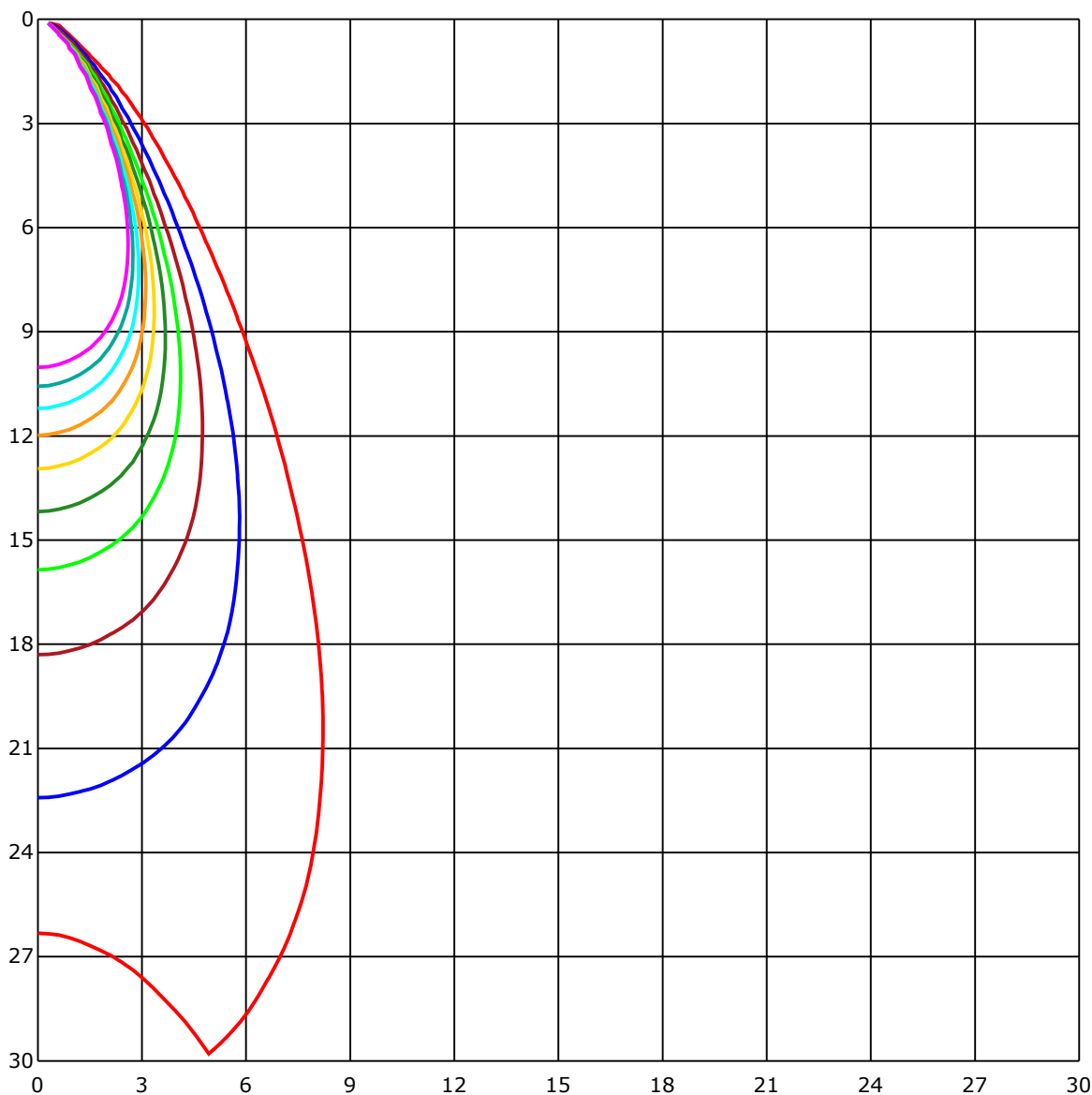
RHOCC	70	70	50	50	30	70	70	50	50	30
RHOW	50	30	50	30	30	50	30	50	30	30
RHOF	20	20	20	20	20	20	20	20	20	20
Room Size X Y	Viewed Endwise					Viewed Crosswise				
2H 2H	10.69	10.74	10.89	10.93	11.17	10.84	10.89	11.04	11.07	11.32
3H	10.67	10.72	10.87	10.91	11.16	10.81	10.86	11.02	11.05	11.30
4H	10.65	10.71	10.86	10.90	11.15	10.80	10.85	11.01	11.04	11.29
6H	10.64	10.69	10.85	10.89	11.14	10.78	10.83	11.00	11.03	11.28
8H	10.63	10.68	10.85	10.88	11.14	10.77	10.82	10.99	11.03	11.28
12H	10.62	10.67	10.84	10.88	11.13	10.76	10.81	10.98	11.02	11.27
4H 2H	10.66	10.71	10.87	10.91	11.16	10.95	11.00	11.16	11.20	11.44
3H	10.63	10.68	10.85	10.89	11.14	10.92	10.97	11.14	11.17	11.43
4H	10.61	10.67	10.84	10.88	11.14	10.90	10.95	11.13	11.16	11.42
6H	10.59	10.64	10.83	10.86	11.13	10.88	10.92	11.11	11.15	11.41
8H	10.58	10.63	10.83	10.86	11.12	10.86	10.91	11.11	11.14	11.40
12H	10.57	10.62	10.82	10.85	11.12	10.85	10.90	11.10	11.13	11.40
8H 4H	10.64	10.69	10.86	10.89	11.14	11.01	11.06	11.23	11.26	11.52
6H	10.55	10.60	10.81	10.84	11.11	10.94	10.99	11.20	11.23	11.50
8H	10.54	10.58	10.80	10.83	11.10	10.93	10.97	11.19	11.22	11.49
12H	10.52	10.56	10.79	10.82	11.10	10.91	10.95	11.18	11.20	11.48
12H 4H	10.57	10.61	10.81	10.84	11.11	11.03	11.07	11.27	11.31	11.57
6H	10.54	10.58	10.80	10.83	11.10	11.00	11.05	11.27	11.29	11.57

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SPACE ISOLX DIAGRAM



Unit of illumination:lx

21.307

19.176

17.045

14.915

12.784

10.653

8.523

6.392

4.261

2.131

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	2141.32	2112.94	2133.12	2121.61	2141.32	2112.94	2133.12	2121.61	2141.32	
G1	2139.42	2099.86	2132.0	2108.68	2141.0	2121.66	2133.53	2131.21	2139.42	
G2	2132.14	2084.1	2120.5	2095.97	2141.42	2131.21	2128.2	2135.25	2132.14	
G3	2119.16	2060.82	2112.94	2069.16	2125.7	2132.93	2122.08	2136.78	2119.16	
G4	2107.28	2040.09	2094.02	2039.16	2111.97	2131.86	2109.51	2132.93	2107.28	
G5	2090.08	2009.06	2074.91	2013.23	2094.99	2133.02	2096.9	2125.74	2090.08	
G6	2067.54	1977.8	2055.9	1977.2	2077.28	2122.77	2077.09	2119.3	2067.54	
G7	2041.01	1939.36	2021.07	1944.78	2054.28	2106.03	2052.98	2106.59	2041.01	
G8	2015.13	1898.31	1989.86	1902.86	2030.86	2094.81	2022.32	2086.79	2015.13	
G9	1983.74	1852.54	1956.65	1865.9	1999.23	2073.85	1992.69	2064.29	1983.74	
G10	1947.66	1800.0	1916.96	1817.34	1961.01	2049.17	1955.26	2028.91	1947.66	
G11	1906.06	1746.11	1872.02	1767.49	1916.08	2019.49	1914.41	1997.14	1906.06	
G12	1858.34	1684.94	1824.07	1709.05	1873.83	1988.24	1869.79	1964.12	1858.34	
G13	1799.35	1618.71	1766.79	1648.9	1820.87	1946.45	1826.71	1924.52	1799.35	
G14	1740.87	1554.71	1706.69	1575.86	1764.24	1905.5	1770.78	1879.21	1740.87	
G15	1681.23	1475.78	1644.87	1502.54	1703.21	1861.95	1714.8	1834.22	1681.23	
G16	1609.71	1393.7	1576.05	1422.54	1638.1	1812.98	1644.73	1782.42	1609.71	
G17	1539.55	1310.17	1505.65	1338.69	1570.85	1753.39	1573.96	1727.09	1539.55	
G18	1458.2	1222.52	1425.56	1251.13	1495.07	1692.68	1495.31	1662.17	1458.2	
G19	1373.99	1133.8	1345.23	1162.56	1410.58	1622.28	1417.21	1595.52	1373.99	
G20	1283.37	1042.49	1254.47	1073.28	1324.97	1552.67	1329.46	1521.51	1283.37	
G21	1194.46	950.99	1162.83	985.82	1232.31	1470.31	1242.14	1444.43	1194.46	
G22	1106.4	864.45	1074.86	897.24	1144.98	1388.13	1147.53	1358.96	1106.4	
G23	1015.78	776.06	985.68	811.81	1051.11	1300.43	1053.71	1269.96	1015.78	
G24	925.44	694.71	895.34	724.12	960.03	1207.63	960.12	1179.25	925.44	
G25	838.2	621.16	812.05	643.56	872.61	1113.86	868.95	1087.43	838.2	
G26	752.59	554.29	731.12	569.59	784.64	1023.15	780.51	994.49	752.59	
G27	670.18	488.02	653.02	500.77	699.44	934.62	701.53	902.71	670.18	
G28	592.78	427.54	578.54	437.6	625.71	845.02	624.41	812.6	592.78	
G29	523.03	373.14	512.73	382.46	555.54	754.77	549.32	726.02	523.03	
G30	461.02	323.66	449.66	332.61	490.15	673.66	479.76	643.56	461.02	
G31	403.19	281.97	393.55	288.23	432.41	601.03	419.33	567.46	403.19	
G32	349.72	245.42	344.71	249.78	378.24	533.7	365.17	498.78	349.72	
G33	303.58	213.7	302.42	215.09	331.36	471.0	317.17	438.35	303.58	
G34	264.2	186.99	265.46	186.52	290.27	413.03	275.43	383.34	264.2	
G35	229.79	162.27	232.02	162.18	254.0	360.85	239.53	333.82	229.79	
G36	200.16	140.43	201.04	141.03	221.54	312.53	208.04	288.69	200.16	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	173.77	122.39	175.44	122.11	193.2	272.78	180.5	249.74	173.77	
G38	152.11	107.59	152.62	105.78	168.9	239.81	156.7	218.01	152.11	
G39	132.96	94.05	135.33	92.66	148.96	210.59	135.79	191.3	132.96	
G40	115.71	82.32	119.46	81.02	130.27	184.67	118.26	167.05	115.71	
G41	101.05	72.44	106.71	71.0	114.64	160.55	103.51	146.22	101.05	
G42	88.44	64.09	93.91	62.42	102.17	141.49	90.34	128.04	88.44	
G43	77.68	55.88	83.71	54.96	90.2	123.78	79.44	112.97	77.68	
G44	68.4	49.02	74.34	47.67	79.58	109.96	70.26	100.4	68.4	
G45	60.34	42.81	66.04	41.97	70.49	97.53	61.68	89.88	60.34	
G46	53.19	37.56	58.67	36.31	62.75	85.93	53.66	79.81	53.19	
G47	46.33	32.6	52.54	31.49	55.42	75.92	46.19	71.23	46.33	
G48	40.63	28.24	46.24	27.41	49.25	66.97	39.33	63.58	40.63	
G49	34.92	24.21	41.27	23.79	42.81	59.32	33.21	56.3	34.92	
G50	29.63	20.27	36.45	20.45	37.84	52.13	27.87	49.3	29.63	
G51	24.86	16.88	32.7	17.16	33.07	45.08	23.1	42.85	24.86	
G52	20.73	13.73	28.75	14.1	28.85	39.0	18.74	37.1	20.73	
G53	17.07	11.22	25.27	11.69	24.63	33.53	14.98	32.28	17.07	
G54	13.82	9.28	21.94	9.51	21.24	28.89	11.97	27.59	13.82	
G55	10.99	7.74	19.15	8.12	18.5	24.76	9.69	23.79	10.99	
G56	8.95	6.68	16.88	6.91	16.51	21.19	7.88	20.45	8.95	
G57	7.56	5.75	15.16	6.08	14.84	18.46	6.82	17.72	7.56	
G58	6.59	5.05	13.91	5.38	13.63	16.32	5.8	15.63	6.59	
G59	5.61	4.36	12.8	4.78	12.52	14.7	5.19	14.19	5.61	
G60	4.87	3.8	11.87	4.13	11.59	13.45	4.41	13.03	4.87	
G61	4.27	3.29	11.08	3.66	10.76	12.34	3.9	12.1	4.27	
G62	3.8	2.97	10.11	3.06	9.97	11.45	3.34	11.27	3.8	
G63	3.25	2.37	9.46	2.69	9.32	10.57	2.88	10.39	3.25	
G64	2.78	2.09	8.67	2.27	8.53	9.79	2.5	9.65	2.78	
G65	2.37	1.72	8.07	1.9	7.93	9.14	2.09	9.0	2.37	
G66	2.09	1.58	7.56	1.53	7.47	8.44	1.67	8.35	2.09	
G67	1.67	1.11	7.14	1.25	6.86	7.84	1.44	7.74	1.67	
G68	1.48	0.79	6.72	0.88	6.49	7.28	1.07	7.19	1.48	
G69	1.07	0.42	6.31	0.56	5.89	6.77	0.74	6.82	1.07	
G70	0.65	0.32	5.75	0.46	5.52	6.31	0.32	6.31	0.65	
G71	0.32	0.09	5.29	0.28	5.15	5.75	0.09	5.98	0.32	
G72	0.19	0.0	4.92	0.05	4.73	5.24	0.0	5.29	0.19	
G73	0.0	0.0	4.78	0.0	4.45	4.87	0.0	4.92	0.0	

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