

Report No.:

Test Time: 2024/10/26 15:08:39

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP104SCT095H78-2F-15°
Lamp Type:
Luminous Width: 90 mm
Luminous Length: 185 mm
Luminous Height: 70 mm

Voltage(V): 219.90 V
Current(A): 0.0940 A
Power(W): 20.22 W
Power Factor: 0.9720
Lamp Luminous Flux: 2008.76

Photometric Results

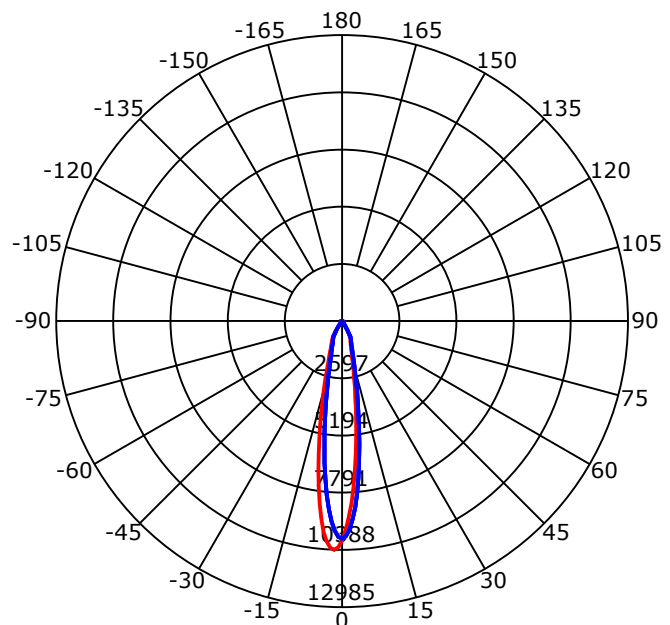
CIE Class: Direct
Luminaire Luminous Flux: 2008.763 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 99.35 lm/W
Beam Angle(50%) C0-180,C90-270: 18.4,18.2
Field Angle(10%) C0-180,C90-270: 48.2,49.6
S/MH C0-180,C90-270: 0.353,0.317

Max. Intensity: 10388.39 cd
Max.Intensity Angle: C=180 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 9963.02 cd
Effective Luminous Flux: 1532.40 lm
ERP(ϕ use)(120deg): 1994.95 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 18.4 deg,18.2 deg

C0-180 — C90-270 —

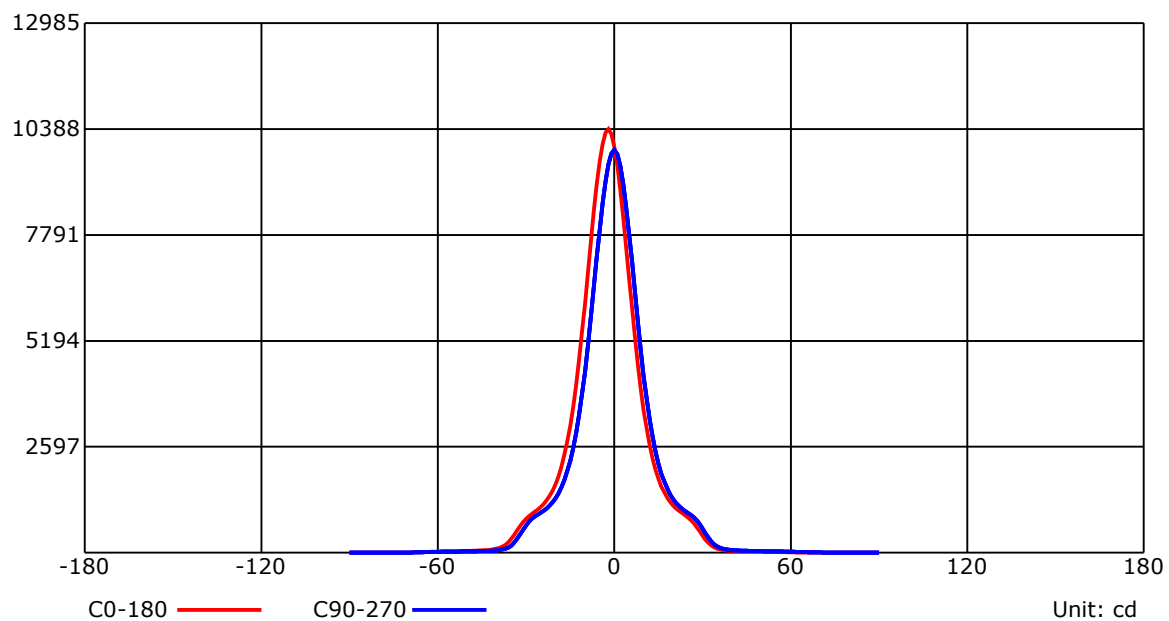
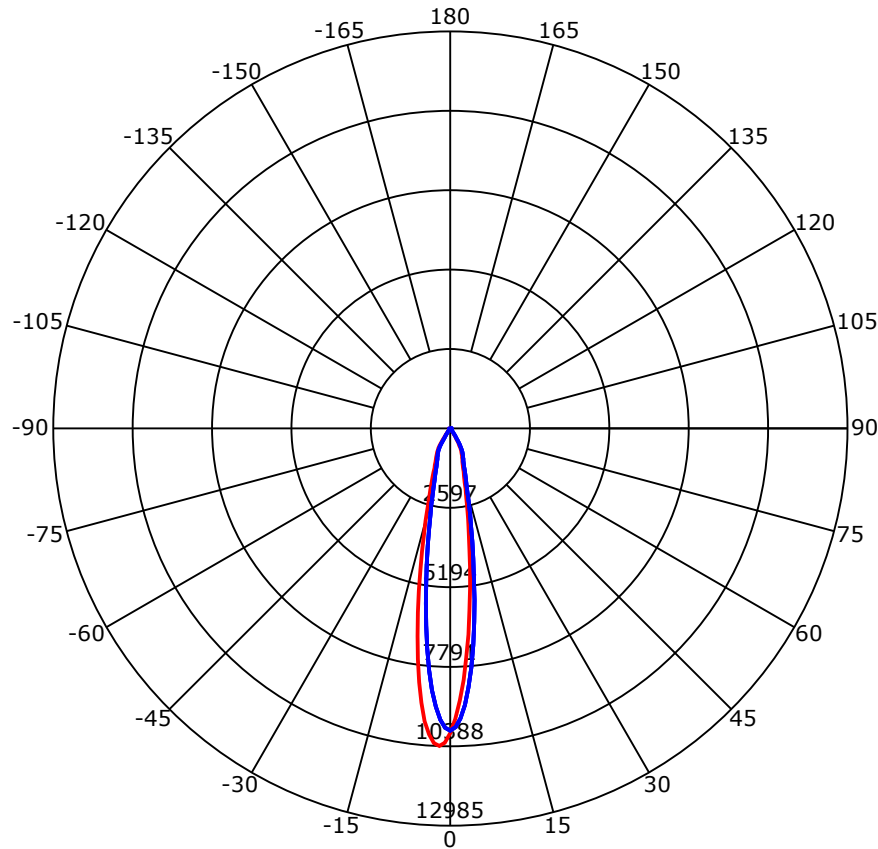
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/10/26 15:08:39

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



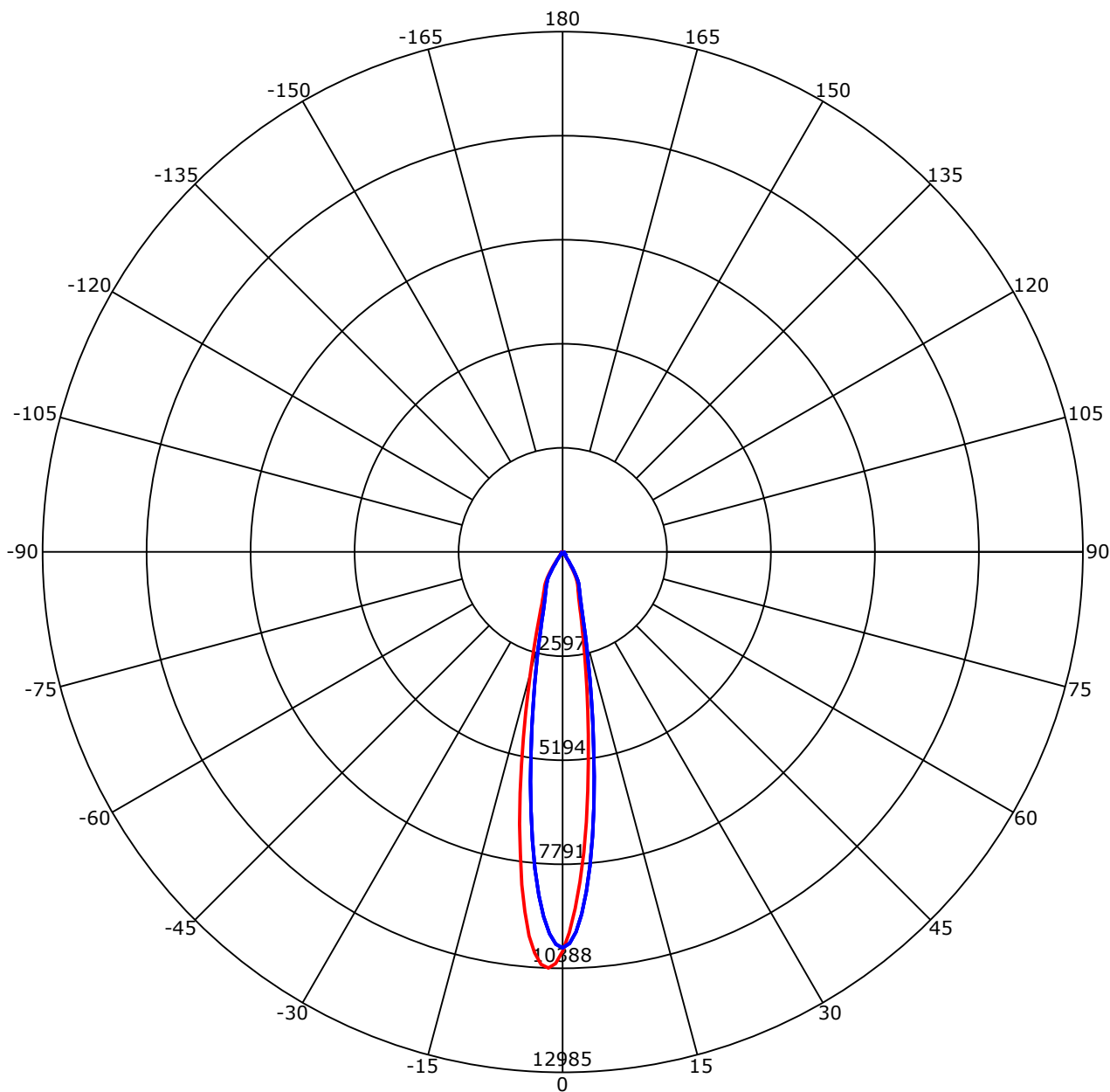
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Luminous Intensity Distribution Curve



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: 2024/10/26 15:08:39

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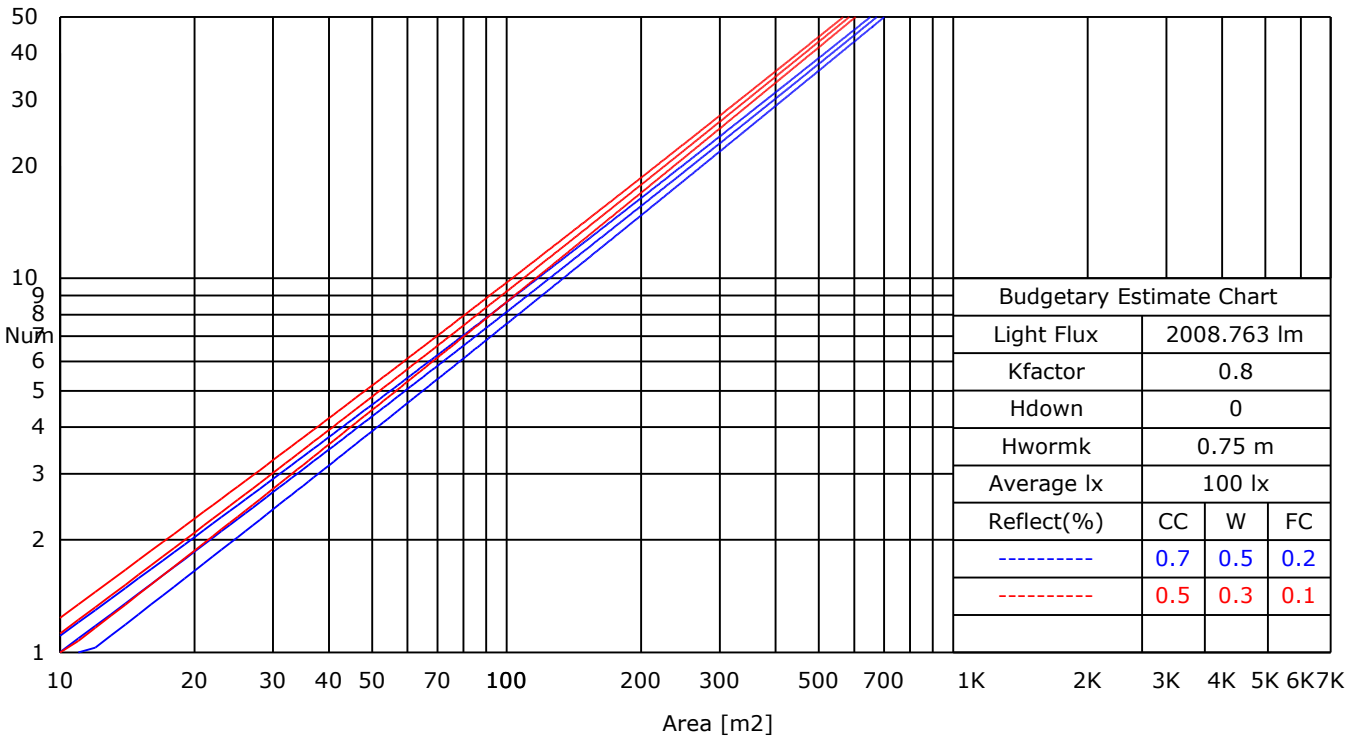
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UTILIZATION FACTORS TABLE

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	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	0.87	0.83	0.80	0.86	0.82	0.79	0.84	0.80	0.76	0.80	0.76	0.72	0.76	0.71	0.67	0.62
2	0.83	0.80	0.77	0.82	0.79	0.76	0.81	0.76	0.73	0.78	0.73	0.69	0.74	0.69	0.65	0.60
3	0.79	0.77	0.75	0.79	0.76	0.73	0.78	0.74	0.70	0.75	0.71	0.67	0.72	0.67	0.63	0.58
4	0.77	0.74	0.73	0.77	0.73	0.71	0.75	0.71	0.68	0.73	0.68	0.65	0.70	0.65	0.61	0.57
5	0.74	0.72	0.71	0.74	0.71	0.69	0.73	0.69	0.66	0.71	0.66	0.63	0.68	0.63	0.59	0.55
6	0.72	0.70	0.69	0.72	0.69	0.68	0.71	0.67	0.65	0.69	0.65	0.61	0.67	0.62	0.58	0.54
7	0.71	0.69	0.68	0.70	0.68	0.66	0.69	0.65	0.63	0.67	0.63	0.60	0.65	0.60	0.57	0.53
8	0.69	0.67	0.66	0.68	0.66	0.65	0.67	0.64	0.62	0.66	0.62	0.58	0.64	0.59	0.55	0.52
9	0.67	0.66	0.65	0.67	0.65	0.63	0.66	0.62	0.60	0.64	0.60	0.57	0.62	0.58	0.54	0.51
10	0.66	0.64	0.64	0.65	0.63	0.62	0.64	0.61	0.59	0.63	0.59	0.56	0.61	0.56	0.53	0.50

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



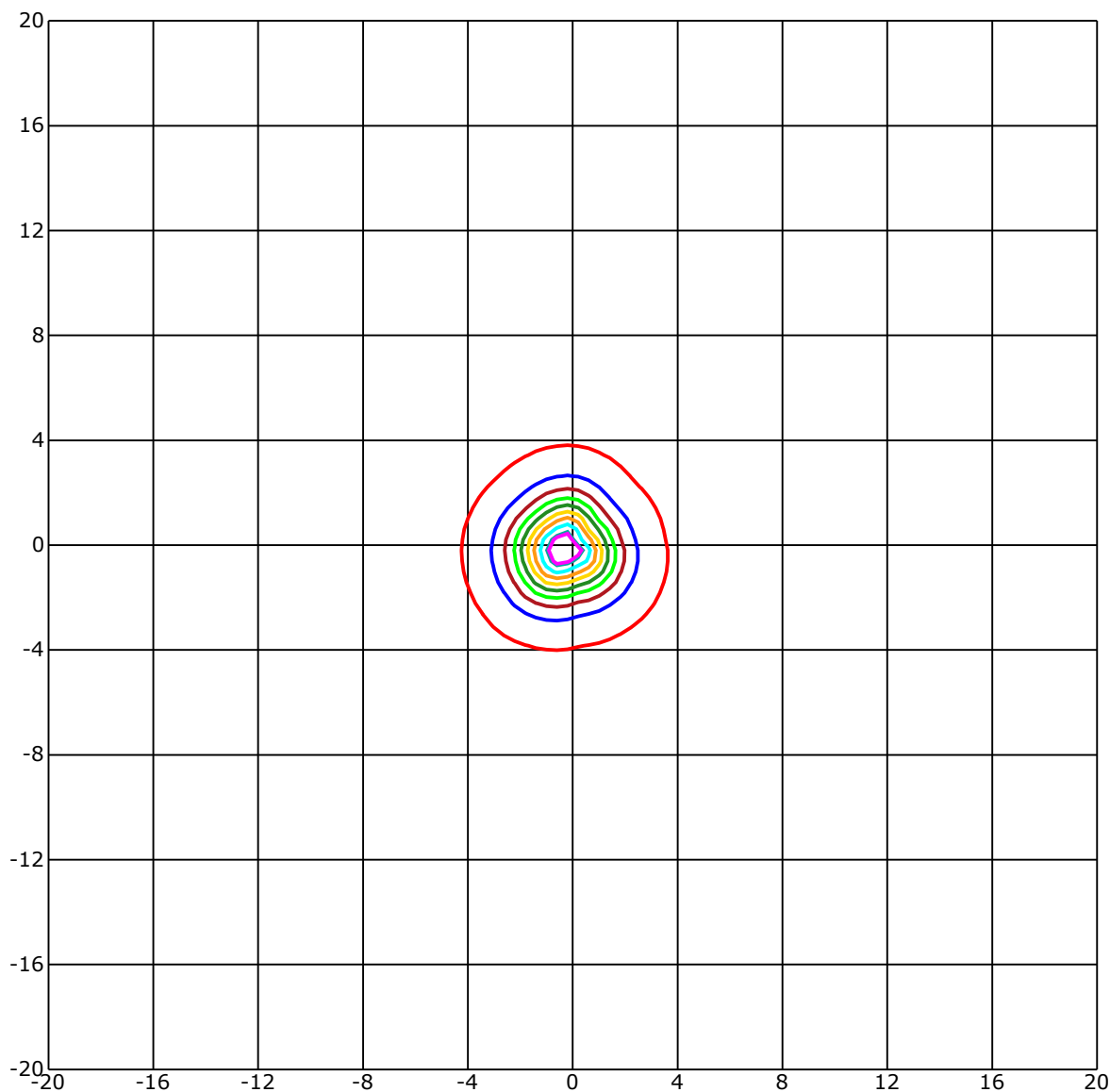
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ISOLX DIAGRAM



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Operators: QC01
Test Date: 2024/10/26 15:08:39

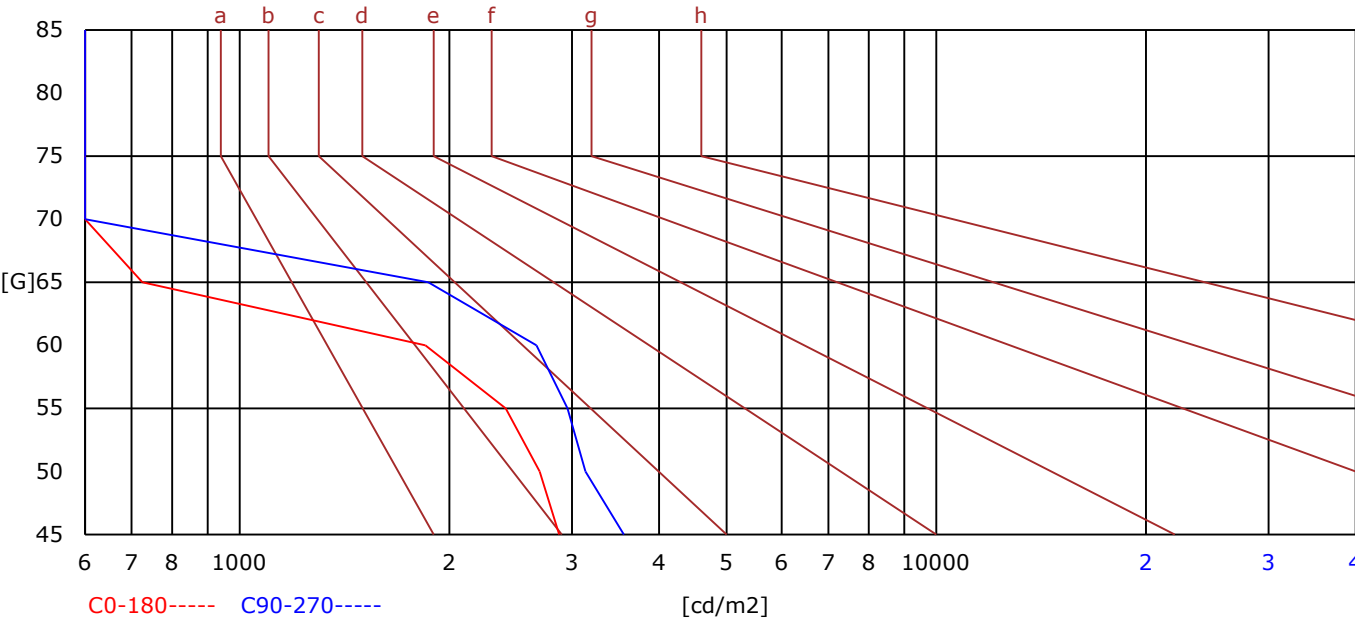
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	2876	2695	2409	1849	725	0	0	0	0
C90	3561	3137	2957	2668	1865	261	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



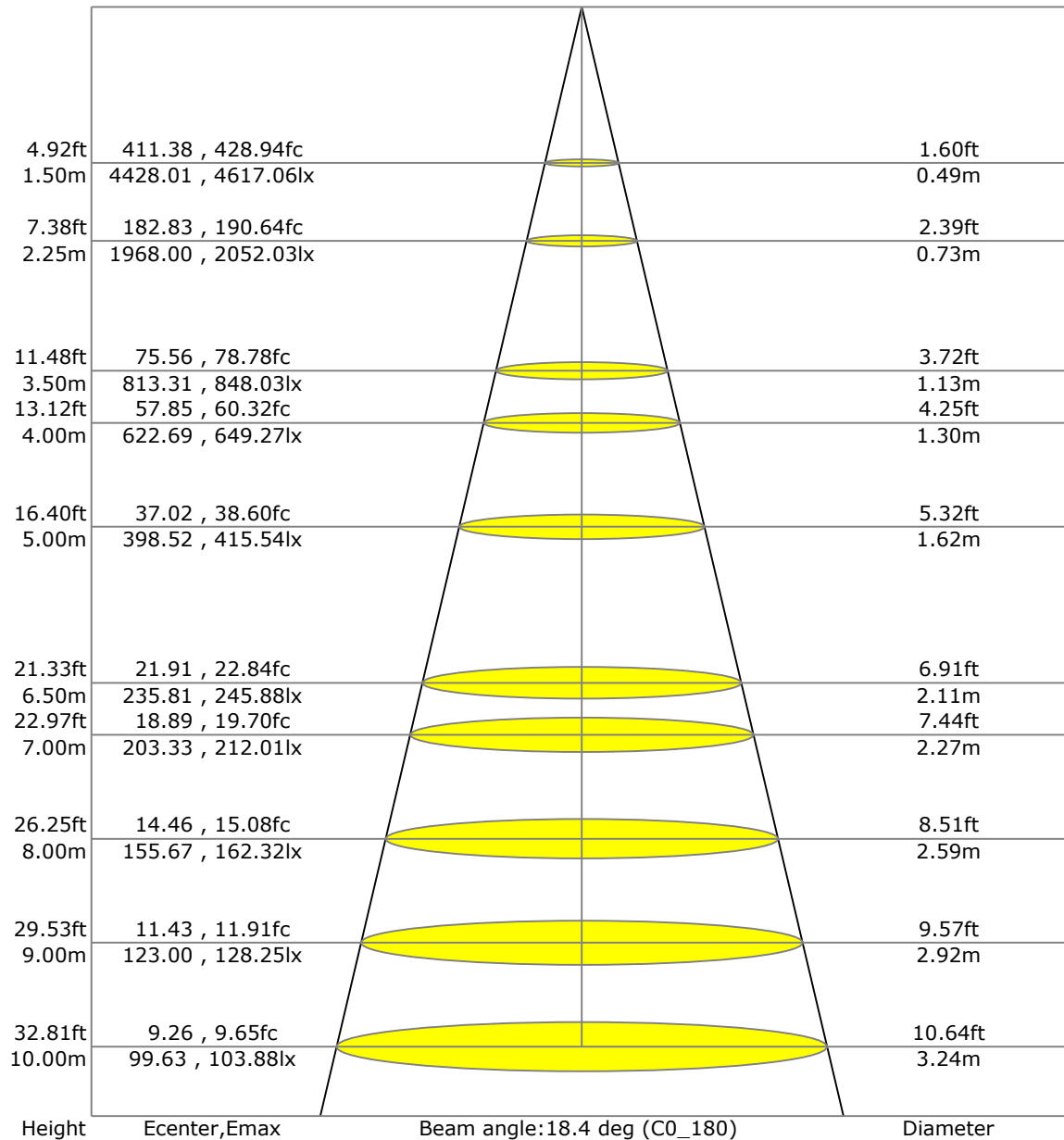
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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
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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	1.60	1.66	1.80	1.85	2.09	1.60	1.66	1.80	1.85	2.09
	3H	1.58	1.64	1.78	1.83	2.08	1.58	1.64	1.78	1.83	2.08
	4H	1.56	1.63	1.77	1.82	2.07	1.56	1.63	1.77	1.82	2.07
	6H	1.55	1.61	1.76	1.81	2.06	1.55	1.61	1.76	1.81	2.06
	8H	1.54	1.60	1.76	1.80	2.06	1.54	1.60	1.76	1.80	2.06
	12H	1.53	1.59	1.75	1.80	2.05	1.53	1.59	1.75	1.80	2.05
4H	2H	1.56	1.63	1.77	1.82	2.07	1.84	1.90	2.05	2.10	2.35
	3H	1.53	1.59	1.75	1.80	2.05	1.80	1.87	2.03	2.07	2.33
	4H	1.51	1.57	1.74	1.79	2.04	1.78	1.85	2.01	2.06	2.32
	6H	1.48	1.55	1.72	1.77	2.03	1.76	1.82	2.00	2.05	2.31
	8H	1.47	1.54	1.72	1.76	2.03	1.75	1.81	1.99	2.04	2.31
	12H	1.46	1.52	1.71	1.75	2.02	1.73	1.80	1.98	2.03	2.30
8H	4H	1.54	1.60	1.76	1.80	2.06	1.81	1.88	2.03	2.08	2.33
	6H	1.44	1.51	1.70	1.74	2.02	1.72	1.78	1.98	2.02	2.29
	8H	1.43	1.49	1.69	1.74	2.01	1.70	1.76	1.97	2.01	2.29
	12H	1.41	1.47	1.68	1.72	2.01	1.69	1.75	1.96	2.00	2.28
12H	4H	1.46	1.52	1.71	1.75	2.02	1.73	1.80	1.98	2.03	2.30
	6H	1.43	1.49	1.69	1.74	2.01	1.70	1.76	1.97	2.01	2.29

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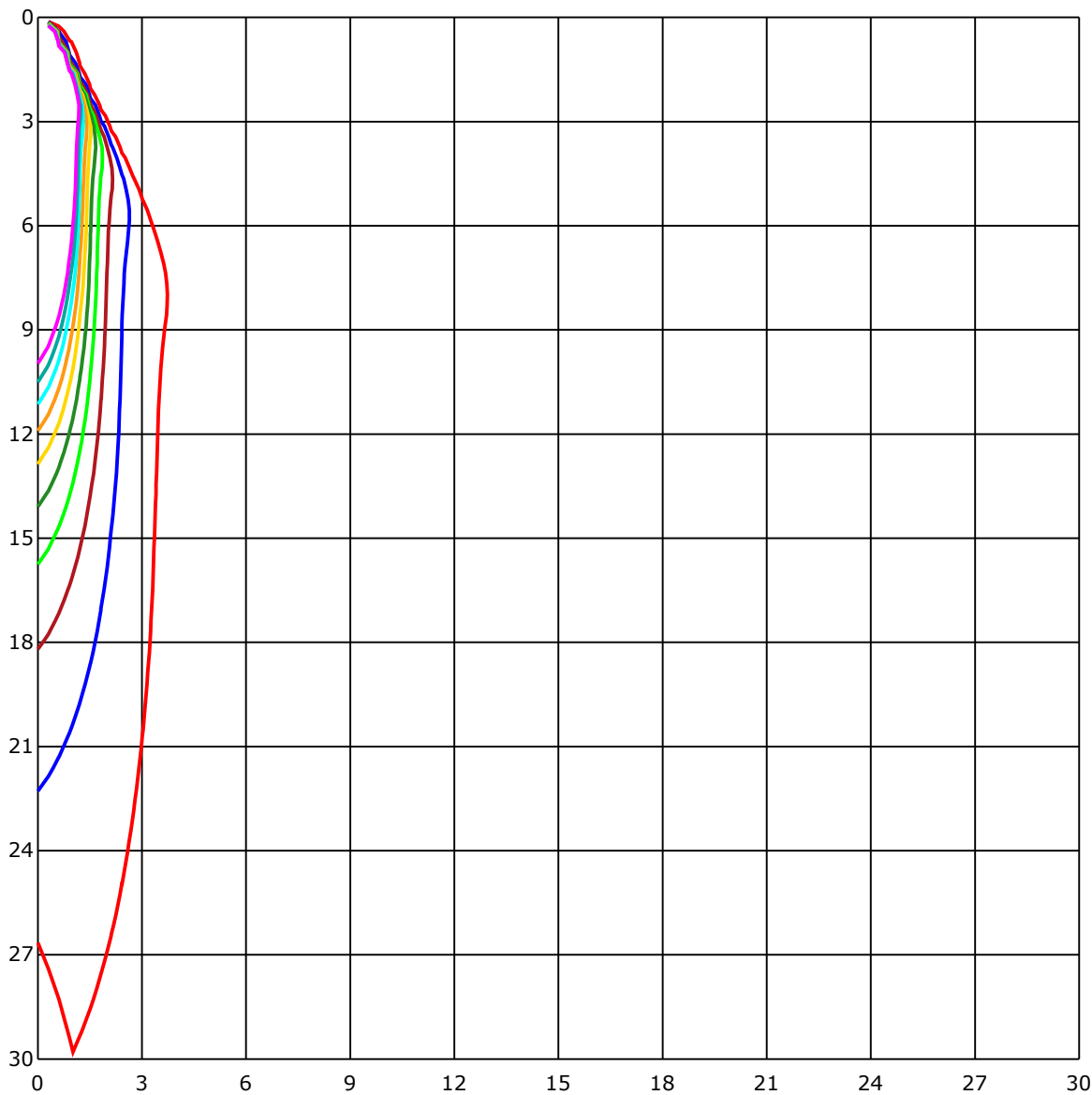
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Test Distance: 6.81 m
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SPACE ISOLX DIAGRAM



Unit of illumination:lx

100.369
90.332
80.295
70.258
60.221

50.184
40.147
30.111
20.074
10.037

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	9963.02	9352.58	9879.18	10090.23	9963.02	9352.58	9879.18	10090.23	9963.02	
G1	9496.39	8804.73	9766.67	10050.4	10273.74	9799.97	9788.09	9926.9	9496.39	
G2	8898.74	8142.85	9485.16	9838.74	10388.39	10044.97	9525.1	9608.25	8898.74	
G3	8239.87	7447.96	9051.04	9413.05	10301.01	10122.09	9108.73	9120.83	8239.87	
G4	7507.55	6699.58	8489.66	8876.57	10030.64	10003.88	8584.49	8535.15	7507.55	
G5	6761.5	5959.1	7849.02	8234.12	9611.59	9687.23	7931.75	7860.1	6761.5	
G6	5990.77	5226.35	7134.59	7531.06	9017.18	9222.26	7222.8	7144.1	5990.77	
G7	5269.67	4562.06	6381.26	6777.5	8362.03	8643.35	6491.77	6395.26	5269.67	
G8	4602.04	3949.39	5658.44	6036.73	7617.65	7961.66	5783.84	5673.37	4602.04	
G9	4006.85	3431.37	4952.18	5321.7	6873.91	7246.96	5081.01	4985.8	4006.85	
G10	3472.92	2983.14	4309.41	4656.3	6108.57	6508.28	4441.58	4357.5	3472.92	
G11	3025.3	2603.37	3749.93	4044.18	5399.06	5758.43	3875.65	3781.83	3025.3	
G12	2629.06	2278.46	3261.07	3514.61	4720.3	5050.68	3369.46	3294.37	2629.06	
G13	2304.43	2010.68	2842.07	3042.74	4111.29	4421.22	2928.88	2873.09	2304.43	
G14	2037.67	1786.5	2485.02	2644.18	3575.32	3848.89	2569.79	2516.65	2037.67	
G15	1814.74	1611.62	2185.29	2313.33	3116.71	3358.28	2257.13	2214.64	1814.74	
G16	1621.87	1455.56	1936.43	2035.08	2719.91	2935.89	1998.58	1963.1	1621.87	
G17	1477.96	1335.21	1733.54	1800.41	2394.21	2577.54	1776.85	1750.79	1477.96	
G18	1346.86	1231.38	1570.71	1616.76	2104.69	2262.74	1601.83	1585.18	1346.86	
G19	1243.9	1146.7	1426.34	1464.0	1871.97	2010.91	1453.94	1439.89	1243.9	
G20	1158.15	1075.32	1313.37	1341.29	1682.39	1794.15	1338.83	1330.07	1158.15	
G21	1087.24	1018.61	1216.68	1240.1	1524.1	1624.09	1243.16	1227.48	1087.24	
G22	1024.45	964.58	1140.81	1156.34	1394.76	1476.29	1156.48	1150.17	1024.45	
G23	974.22	914.03	1075.0	1089.24	1291.06	1355.53	1087.61	1084.32	974.22	
G24	920.61	857.12	1023.38	1029.46	1199.15	1254.57	1031.17	1029.64	920.61	
G25	866.26	790.99	972.88	975.99	1123.93	1171.51	980.39	986.19	866.26	
G26	805.6	707.05	925.53	928.73	1062.25	1103.52	934.15	946.3	805.6	
G27	726.48	612.03	865.66	875.86	1007.57	1042.12	887.73	892.23	726.48	
G28	624.92	506.01	795.3	818.68	952.89	988.18	831.8	833.05	624.92	
G29	525.07	397.44	699.49	735.43	899.19	936.8	763.17	750.92	525.07	
G30	414.56	301.35	591.34	635.91	835.79	881.7	672.87	650.24	414.56	
G31	316.93	221.12	475.77	527.9	753.15	819.93	564.03	540.37	316.93	
G32	234.8	160.79	363.73	412.33	654.74	735.06	450.4	425.96	234.8	
G33	171.64	122.66	270.88	311.28	549.0	640.59	343.74	323.75	171.64	
G34	127.49	96.97	198.91	227.29	442.57	536.25	249.74	236.98	127.49	
G35	99.85	79.07	148.5	163.1	344.25	427.49	177.48	173.08	99.85	
G36	80.32	66.74	119.46	123.64	258.22	331.68	128.79	131.62	80.32	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	67.89	57.46	98.04	95.91	193.9	248.48	97.53	107.31	67.89	
G38	58.39	50.92	83.06	79.95	148.45	183.93	79.3	89.97	58.39	
G39	51.11	47.72	72.44	67.06	120.21	142.37	66.09	76.89	51.11	
G40	46.01	44.47	64.97	60.01	100.4	114.46	57.88	68.68	46.01	
G41	43.5	41.55	59.59	53.05	85.66	94.89	51.48	62.28	43.5	
G42	39.56	38.82	55.65	49.72	74.06	80.32	47.67	58.71	39.56	
G43	38.21	37.43	51.99	46.61	67.34	70.68	44.8	55.84	38.21	
G44	35.2	35.52	49.39	44.94	61.31	64.0	43.83	52.59	35.2	
G45	33.76	33.85	46.89	41.92	57.83	59.83	39.51	50.69	33.76	
G46	31.91	33.11	44.66	39.74	53.89	56.16	37.47	48.65	31.91	
G47	31.21	32.28	42.11	38.54	49.72	53.24	36.59	45.82	31.21	
G48	29.31	31.49	40.53	36.78	46.7	50.18	35.48	44.71	29.31	
G49	28.99	30.14	39.0	35.15	44.57	48.42	33.39	43.27	28.99	
G50	27.27	28.85	37.66	33.58	42.43	46.1	31.81	42.16	27.27	
G51	27.22	28.38	36.17	32.97	40.44	44.06	31.21	40.72	27.22	
G52	25.65	26.9	35.99	31.63	38.54	42.81	30.28	40.44	25.65	
G53	24.21	25.79	33.67	31.35	37.33	41.37	28.52	38.03	24.21	
G54	22.4	24.49	32.23	30.28	35.62	40.58	27.69	36.17	22.4	
G55	20.73	23.0	31.12	28.24	34.04	39.7	27.08	34.6	20.73	
G56	19.52	22.17	30.47	27.13	32.6	37.61	26.11	33.53	19.52	
G57	17.99	20.41	29.63	26.11	31.03	37.89	24.39	31.49	17.99	
G58	16.05	18.74	27.13	24.9	29.68	34.74	24.21	30.38	16.05	
G59	13.26	17.72	25.27	24.16	28.06	34.23	22.21	29.03	13.26	
G60	11.83	15.4	24.86	22.21	26.67	32.37	21.56	26.94	11.83	
G61	9.18	14.42	22.31	20.64	24.86	31.4	19.11	24.81	9.18	
G62	5.61	11.69	21.01	19.01	22.35	29.77	18.18	22.86	5.61	
G63	2.69	9.92	18.78	16.83	21.05	28.43	16.09	21.56	2.69	
G64	0.37	7.93	17.07	15.63	17.95	26.34	14.01	19.43	0.37	
G65	0.0	5.1	14.05	13.12	15.72	25.37	12.61	16.83	0.0	
G66	0.0	2.37	12.85	10.34	13.17	22.77	11.08	14.33	0.0	
G67	0.0	0.56	11.13	8.63	9.09	21.05	8.44	12.38	0.0	
G68	0.0	0.0	9.79	6.54	6.35	18.41	7.79	9.51	0.0	
G69	0.0	0.0	7.88	4.64	4.96	16.97	5.29	6.49	0.0	
G70	0.0	0.0	7.51	1.48	2.97	14.1	4.27	4.13	0.0	
G71	0.0	0.0	5.24	0.0	1.81	11.78	3.66	1.72	0.0	
G72	0.0	0.0	4.31	0.0	0.0	8.72	3.06	0.19	0.0	
G73	0.0	0.0	2.46	0.0	0.0	6.4	0.7	0.0	0.0	

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