

Report No.:

Test Time: 2024/12/19 17:10:12

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

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

Voltage(V): 220.00 V
Current(A): 0.0730 A
Power(W): 15.38 W
Power Factor: 0.9510
Lamp Luminous Flux: 1150.09

Photometric Results

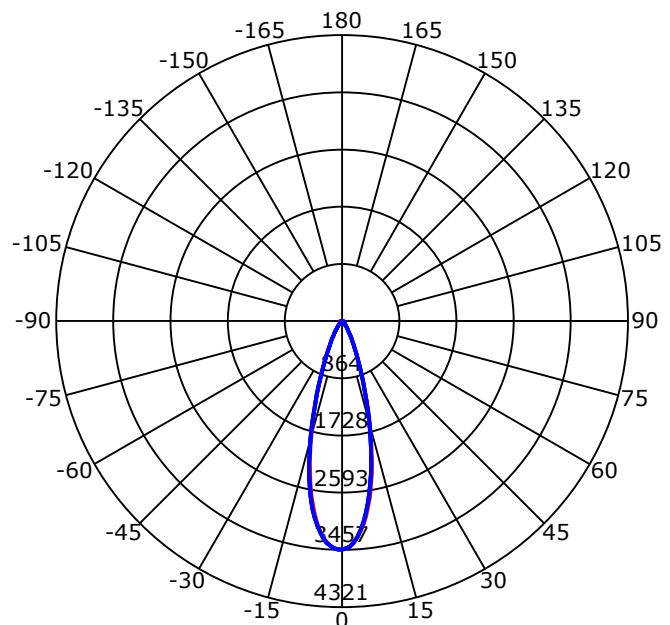
CIE Class: Direct
Luminaire Luminous Flux: 1150.092 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 74.78 lm/W
Beam Angle(50%) C0-180,C90-270: 29.8,29.9
Field Angle(10%) C0-180,C90-270: 55.3,55.3
S/MH C0-180,C90-270: 0.499,0.499

Max. Intensity: 3456.92 cd
Max.Intensity Angle: C=225 Gamma=4
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 3450.99 cd
Effective Luminous Flux: 965.08 lm
ERP(ϕ use)(120deg): 1141.22 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 29.8 deg,29.9 deg

C0-180 — C90-270

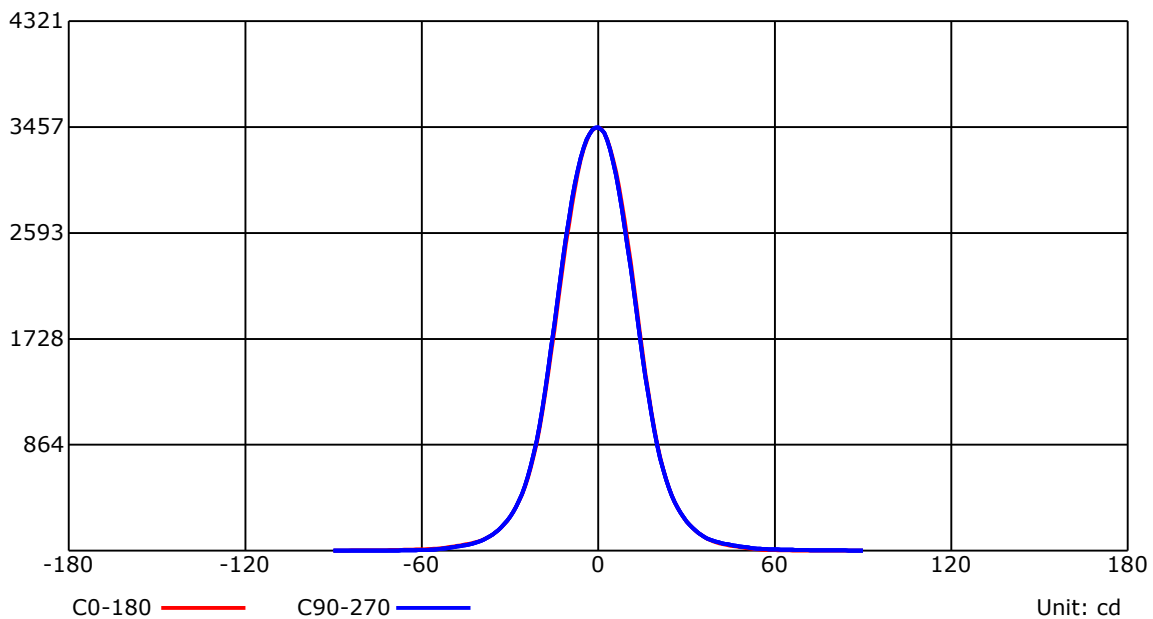
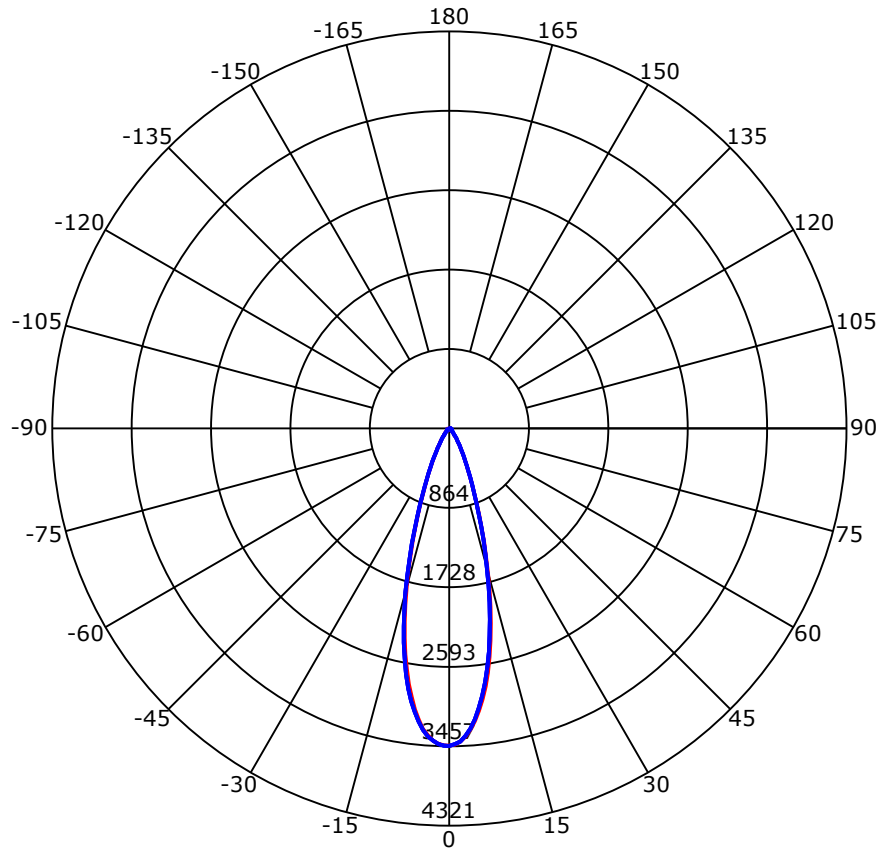
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/12/19 17:10:12

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



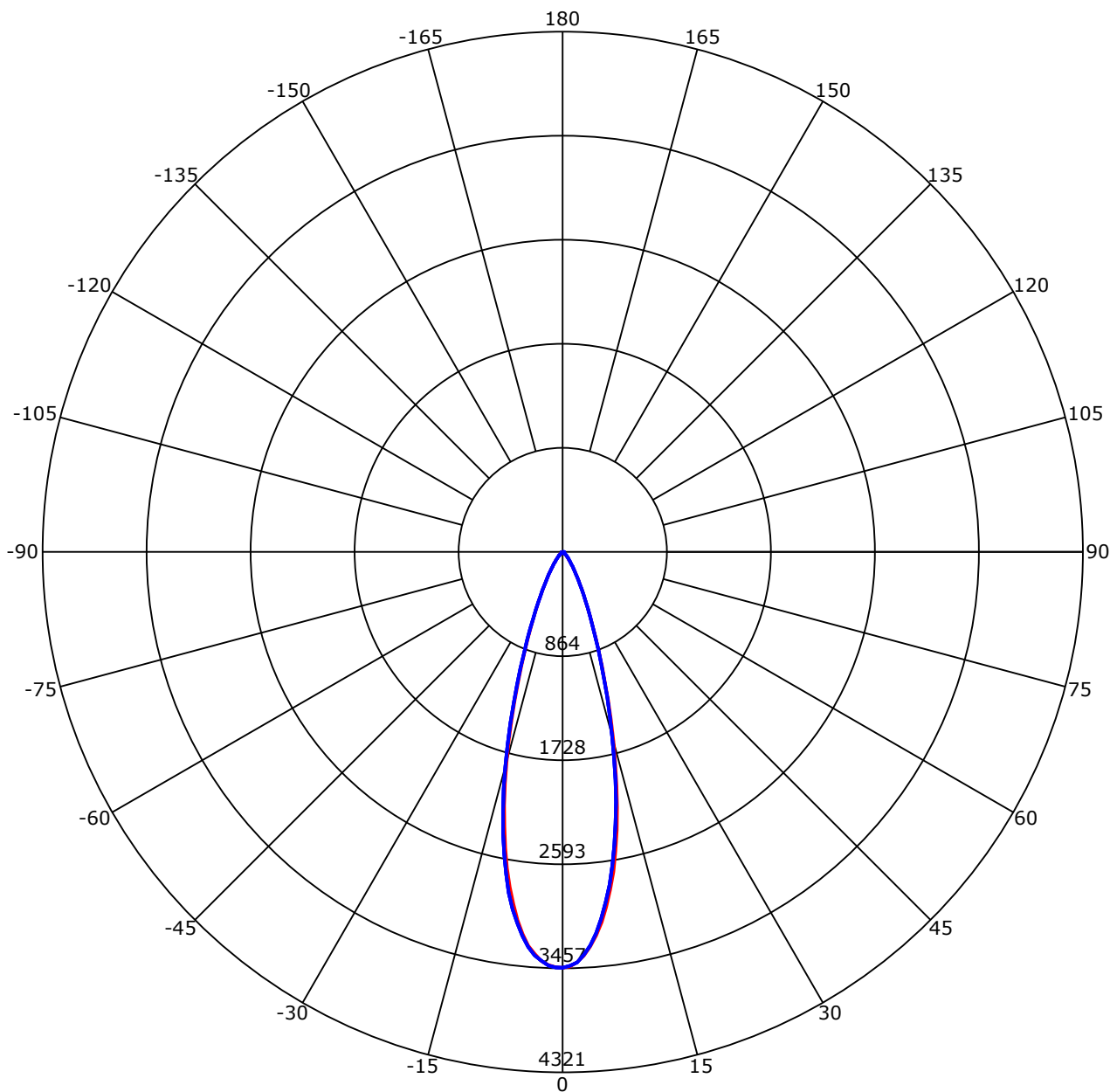
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G Range: 0 - 90 Deg
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Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
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Luminous Intensity Distribution Curve



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: 2024/12/19 17:10:12

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

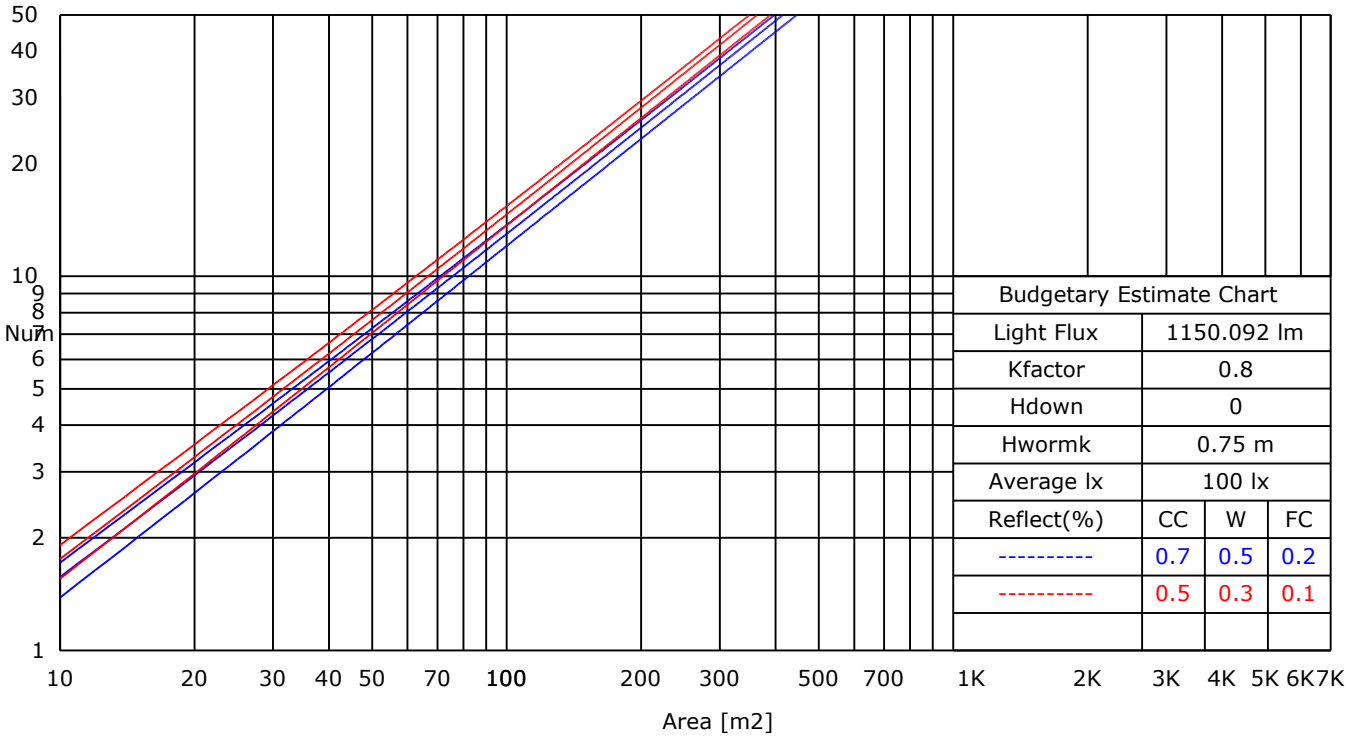
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UTILIZATION FACTORS TABLE

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	0.97	0.95	0.93	0.96	0.94	0.91	0.93	0.90	0.88	0.89	0.86	0.83	0.83	0.80	0.77	0.72
2	0.91	0.88	0.87	0.90	0.87	0.85	0.88	0.84	0.81	0.84	0.80	0.77	0.79	0.76	0.72	0.67
3	0.87	0.85	0.83	0.86	0.84	0.82	0.84	0.81	0.78	0.81	0.77	0.74	0.77	0.73	0.70	0.65
4	0.84	0.82	0.81	0.84	0.81	0.79	0.82	0.78	0.76	0.79	0.75	0.72	0.75	0.71	0.68	0.63
5	0.82	0.80	0.79	0.81	0.79	0.77	0.79	0.76	0.74	0.77	0.73	0.70	0.74	0.69	0.66	0.62
6	0.80	0.78	0.77	0.79	0.77	0.75	0.77	0.74	0.72	0.75	0.71	0.68	0.72	0.68	0.64	0.61
7	0.78	0.76	0.75	0.77	0.75	0.74	0.76	0.72	0.70	0.73	0.69	0.67	0.71	0.66	0.63	0.59
8	0.76	0.75	0.74	0.76	0.74	0.72	0.74	0.71	0.69	0.72	0.68	0.65	0.69	0.65	0.62	0.58
9	0.75	0.73	0.73	0.74	0.72	0.71	0.72	0.69	0.67	0.70	0.67	0.64	0.68	0.64	0.60	0.57
10	0.73	0.72	0.71	0.73	0.71	0.70	0.71	0.68	0.66	0.69	0.65	0.63	0.67	0.62	0.59	0.56

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



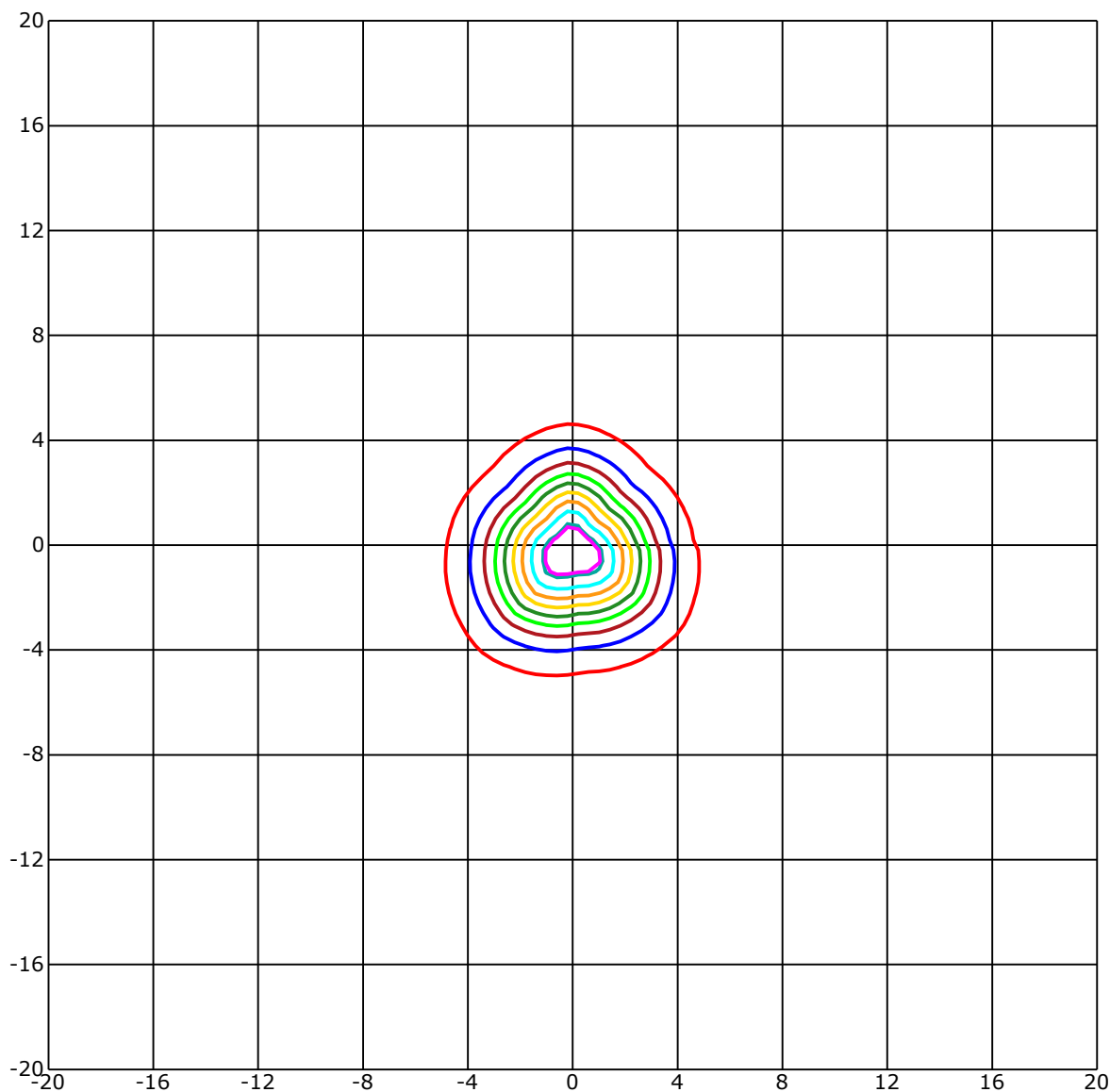
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G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
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ISOLX DIAGRAM



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Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/12/19 17:10:12

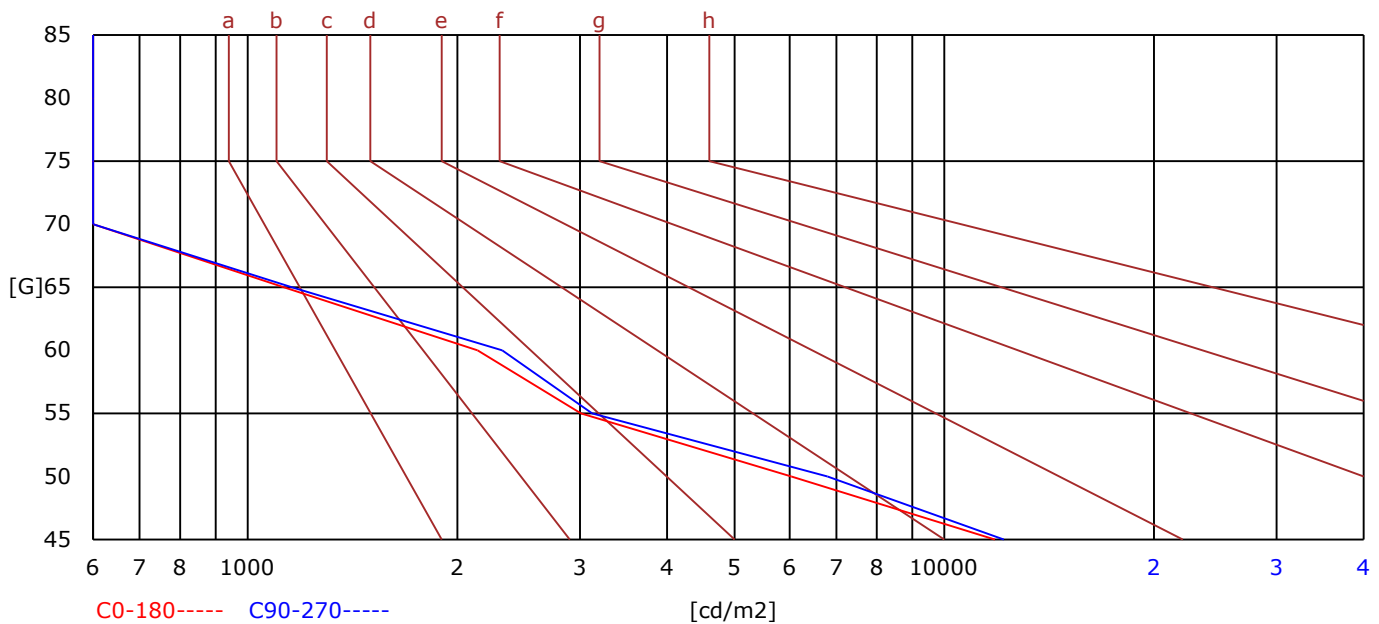
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	11824	6032	3010	2138	1128	0	0	0	0
C90	12170	6794	3122	2319	1158	151	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



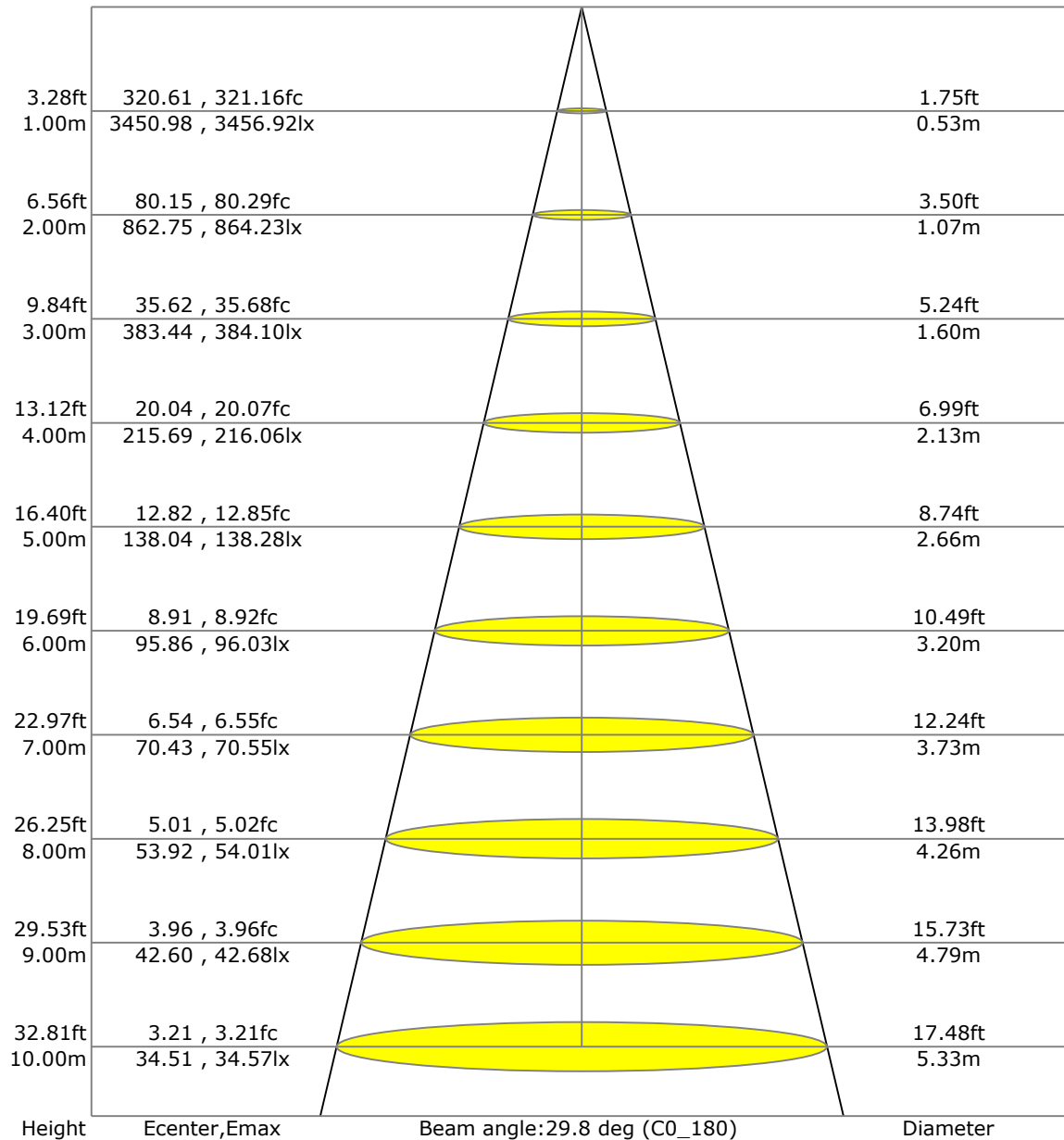
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LX-DISTANCE DIAGRAM



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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	7.80	7.85	8.00	8.04	8.28	8.12	8.17	8.32	8.36	8.60
	3H	7.78	7.84	7.99	8.03	8.28	8.09	8.15	8.30	8.34	8.59
	4H	7.77	7.83	7.98	8.03	8.27	8.08	8.14	8.29	8.33	8.58
	6H	7.76	7.82	7.97	8.02	8.27	8.06	8.12	8.28	8.32	8.57
	8H	7.75	7.81	7.97	8.01	8.26	8.06	8.11	8.27	8.32	8.57
	12H	7.74	7.80	7.96	8.00	8.26	8.05	8.10	8.27	8.31	8.56
4H	2H	7.79	7.85	8.00	8.05	8.30	8.42	8.48	8.63	8.67	8.92
	3H	7.77	7.83	8.00	8.04	8.29	8.39	8.45	8.62	8.66	8.91
	4H	7.76	7.82	7.99	8.03	8.29	8.37	8.43	8.60	8.64	8.90
	6H	7.74	7.80	7.98	8.02	8.28	8.35	8.41	8.59	8.63	8.89
	8H	7.73	7.78	7.97	8.01	8.28	8.34	8.40	8.58	8.62	8.89
	12H	7.72	7.77	7.97	8.00	8.27	8.33	8.38	8.58	8.61	8.88
8H	4H	7.77	7.83	7.99	8.03	8.28	8.56	8.62	8.78	8.82	9.08
	6H	7.70	7.75	7.96	7.99	8.26	8.52	8.57	8.78	8.81	9.09
	8H	7.69	7.74	7.95	7.98	8.26	8.50	8.56	8.77	8.80	9.08
	12H	7.67	7.72	7.94	7.98	8.26	8.49	8.53	8.76	8.79	9.07
12H	4H	7.71	7.76	7.96	8.00	8.27	8.68	8.73	8.92	8.96	9.23
	6H	7.68	7.73	7.95	7.98	8.26	8.66	8.71	8.92	8.96	9.24

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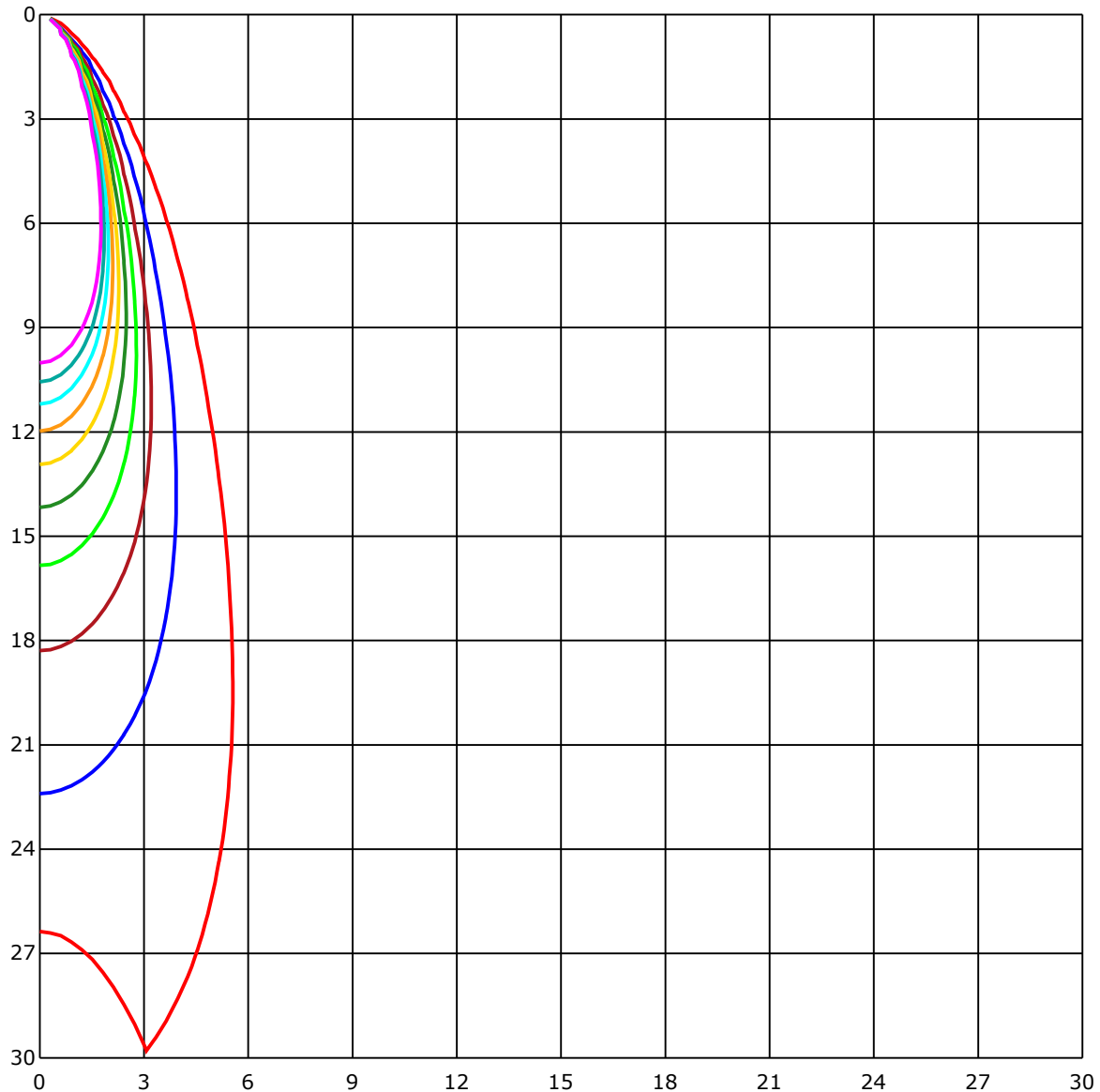
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Humidity: 60
Test Distance: 6.81 m
Remarks:

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SPACE ISOLX DIAGRAM



Unit of illumination:lx

34.389	17.195
30.95	13.756
27.511	10.317
24.072	6.878
20.633	3.439

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	3450.99	3380.86	3453.26	3400.25	3450.99	3380.86	3453.26	3400.25	3450.99	
G1	3442.36	3313.71	3435.68	3343.25	3448.99	3426.08	3451.08	3432.25	3442.36	
G2	3407.72	3222.3	3409.39	3273.55	3430.86	3448.43	3435.26	3449.83	3407.72	
G3	3357.07	3120.28	3349.42	3183.4	3401.08	3456.92	3399.0	3452.7	3357.07	
G4	3284.49	2997.61	3274.9	3073.07	3344.74	3456.92	3358.46	3438.93	3284.49	
G5	3197.82	2864.79	3177.27	2944.47	3280.97	3434.8	3291.92	3397.7	3197.82	
G6	3090.09	2711.15	3060.96	2796.8	3187.85	3386.8	3204.73	3358.23	3090.09	
G7	2970.48	2548.46	2928.14	2639.68	3079.23	3330.87	3104.97	3279.76	2970.48	
G8	2833.12	2376.59	2789.11	2480.84	2951.61	3256.44	2995.85	3197.08	2833.12	
G9	2689.72	2204.72	2629.71	2307.07	2815.96	3170.78	2865.72	3092.78	2689.72	
G10	2524.72	2019.22	2468.41	2135.53	2662.92	3055.21	2714.35	2971.92	2524.72	
G11	2350.62	1839.69	2299.61	1951.41	2502.73	2937.37	2553.93	2845.73	2350.62	
G12	2169.15	1655.49	2124.81	1767.39	2329.89	2802.42	2386.33	2698.49	2169.15	
G13	1990.88	1482.74	1943.21	1590.33	2159.13	2651.55	2207.09	2533.53	1990.88	
G14	1803.15	1320.24	1765.12	1418.46	1977.62	2490.07	2027.05	2361.61	1803.15	
G15	1627.25	1172.48	1586.16	1256.51	1794.52	2318.48	1844.52	2182.09	1627.25	
G16	1450.51	1029.92	1420.96	1108.81	1619.08	2145.5	1665.69	2001.59	1450.51	
G17	1287.86	902.02	1264.54	973.34	1451.43	1963.98	1487.65	1821.1	1287.86	
G18	1133.71	787.79	1118.68	850.63	1290.04	1779.87	1319.91	1645.8	1133.71	
G19	1001.17	687.34	982.06	744.99	1140.11	1599.37	1164.78	1470.68	1001.17	
G20	874.89	599.87	863.24	653.53	1002.14	1428.71	1025.7	1308.08	874.89	
G21	767.52	526.23	756.49	572.98	878.83	1267.51	898.12	1151.66	767.52	
G22	668.05	461.26	662.85	504.29	769.8	1120.17	787.98	1017.72	668.05	
G23	585.22	404.54	580.03	442.34	675.14	989.67	690.91	896.91	585.22	
G24	511.85	355.94	510.88	387.84	591.43	867.88	604.37	787.7	511.85	
G25	449.52	313.78	448.6	340.4	519.92	762.56	528.22	691.7	449.52	
G26	394.89	275.2	394.29	299.68	456.94	669.35	464.13	608.13	394.89	
G27	348.66	242.04	346.06	263.28	402.87	586.61	406.95	535.69	348.66	
G28	306.55	212.22	306.69	231.05	354.92	515.15	356.77	473.96	306.55	
G29	270.47	186.15	271.11	203.45	313.83	453.7	313.73	416.55	270.47	
G30	238.74	163.15	239.72	177.76	276.96	399.3	277.38	368.18	238.74	
G31	211.1	143.86	212.03	155.55	244.59	353.85	245.28	325.19	211.1	
G32	185.88	127.26	186.8	136.25	215.05	311.79	216.34	288.55	185.88	
G33	163.8	112.0	164.54	119.84	190.0	274.96	190.61	254.09	163.8	
G34	144.6	98.41	145.62	105.64	168.3	243.24	167.88	226.36	144.6	
G35	127.91	86.96	128.28	91.78	149.05	215.28	148.96	201.13	127.91	
G36	112.37	76.98	113.76	80.97	131.57	189.91	131.99	178.13	112.37	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	97.81	68.45	101.19	71.93	116.4	168.07	115.8	158.0	97.81	
G38	85.98	61.63	90.62	64.18	103.23	149.47	101.52	140.75	85.98	
G39	77.03	55.79	81.9	57.51	92.2	132.59	89.37	124.98	77.03	
G40	68.78	50.46	74.06	51.8	82.27	117.52	79.54	111.53	68.78	
G41	61.82	45.54	67.48	46.33	74.34	104.62	71.14	99.75	61.82	
G42	55.51	40.9	61.59	42.02	67.66	93.17	63.21	89.32	55.51	
G43	50.27	37.1	56.39	38.12	61.82	83.89	56.49	80.65	50.27	
G44	45.08	33.48	51.8	34.46	56.39	75.41	51.15	72.67	45.08	
G45	41.14	30.1	47.4	30.98	51.66	68.68	45.87	65.95	41.14	
G46	37.43	26.71	43.5	27.78	46.93	62.56	41.97	60.47	37.43	
G47	33.76	23.7	39.47	24.72	43.22	57.23	37.8	55.65	33.76	
G48	30.14	20.22	35.85	21.7	39.33	52.45	34.27	51.2	30.14	
G49	26.43	16.97	32.56	18.69	35.9	47.63	30.65	46.42	26.43	
G50	22.77	13.96	29.12	15.72	32.37	43.36	26.71	42.16	22.77	
G51	18.97	11.32	25.69	12.71	28.85	39.79	22.72	37.89	18.97	
G52	15.54	9.18	22.35	10.25	25.27	35.8	19.15	33.76	15.54	
G53	12.48	7.7	19.39	8.39	21.94	31.72	15.54	29.63	12.48	
G54	10.06	6.77	17.25	7.23	19.06	27.64	12.57	25.69	10.06	
G55	8.39	6.21	15.26	6.45	16.79	24.07	10.02	21.98	8.39	
G56	7.19	5.75	14.05	5.98	15.16	20.64	8.39	18.88	7.19	
G57	6.4	5.19	13.22	5.57	14.1	17.9	7.23	16.46	6.4	
G58	5.89	4.82	12.43	5.05	13.12	15.86	6.59	14.98	5.89	
G59	5.38	4.31	11.73	4.54	12.38	14.65	5.98	13.77	5.38	
G60	4.87	3.85	11.04	4.17	11.73	13.54	5.47	13.08	4.87	
G61	4.5	3.34	10.39	3.57	11.13	12.75	4.92	12.15	4.5	
G62	4.03	2.83	9.74	3.2	10.3	12.01	4.59	11.55	4.03	
G63	3.52	2.41	9.04	2.64	9.74	11.5	4.08	10.94	3.52	
G64	2.97	2.04	8.49	2.13	8.95	10.71	3.52	10.48	2.97	
G65	2.55	1.72	7.84	1.76	8.25	10.02	3.06	9.74	2.55	
G66	1.95	1.25	7.28	1.48	7.56	9.32	2.55	9.0	1.95	
G67	1.62	0.88	6.72	1.02	6.96	8.63	2.09	8.3	1.62	
G68	1.3	0.46	6.21	0.51	6.45	7.88	1.72	7.65	1.3	
G69	0.88	0.19	5.66	0.28	5.98	7.33	1.21	7.05	0.88	
G70	0.37	0.0	5.1	0.19	5.33	6.72	0.79	6.49	0.37	
G71	0.05	0.0	4.73	0.0	4.96	6.12	0.42	5.8	0.05	
G72	0.0	0.0	4.41	0.0	4.54	5.52	0.23	5.24	0.0	
G73	0.0	0.0	4.17	0.0	4.36	5.01	0.0	4.82	0.0	

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