

Report No.:

Test Time: 2024/10/25 18:13:33

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP151CT095H114-45°-25W
Lamp Type:
Luminous Width: 80 mm
Luminous Length: 80 mm
Luminous Height: 70 mm

Voltage(V): 219.80 V
Current(A): 0.1170 A
Power(W): 25.23 W
Power Factor: 0.9790
Lamp Luminous Flux: 2170.64

Photometric Results

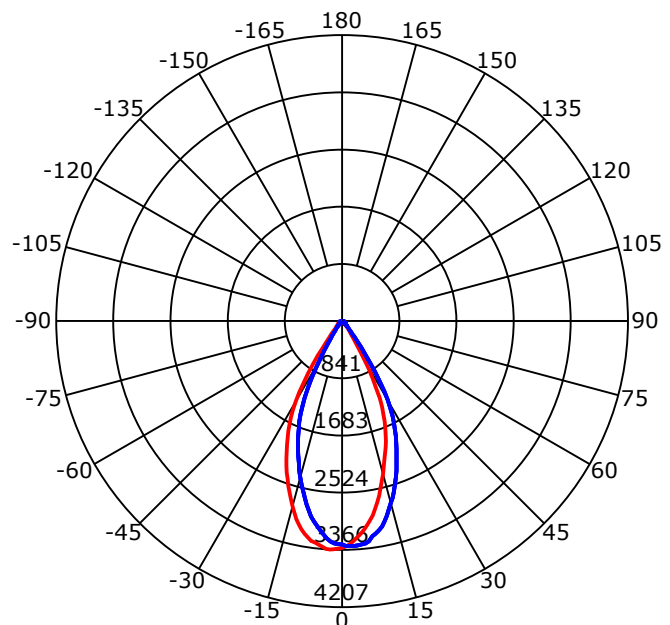
CIE Class: Direct
Luminaire Luminous Flux: 2170.641 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 86.03 lm/W
Beam Angle(50%) C0-180,C90-270: 49.4,49.8
Field Angle(10%) C0-180,C90-270: 70.6,70.3
S/MH C0-180,C90-270: 0.768,0.768

Max. Intensity: 3365.70 cd
Max.Intensity Angle: C=180 Gamma=3
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 3335.42 cd
Effective Luminous Flux: 1947.26 lm
ERP(ϕ use)(120deg): 2131.09 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 49.4 deg,49.8 deg

C0-180 — C90-270

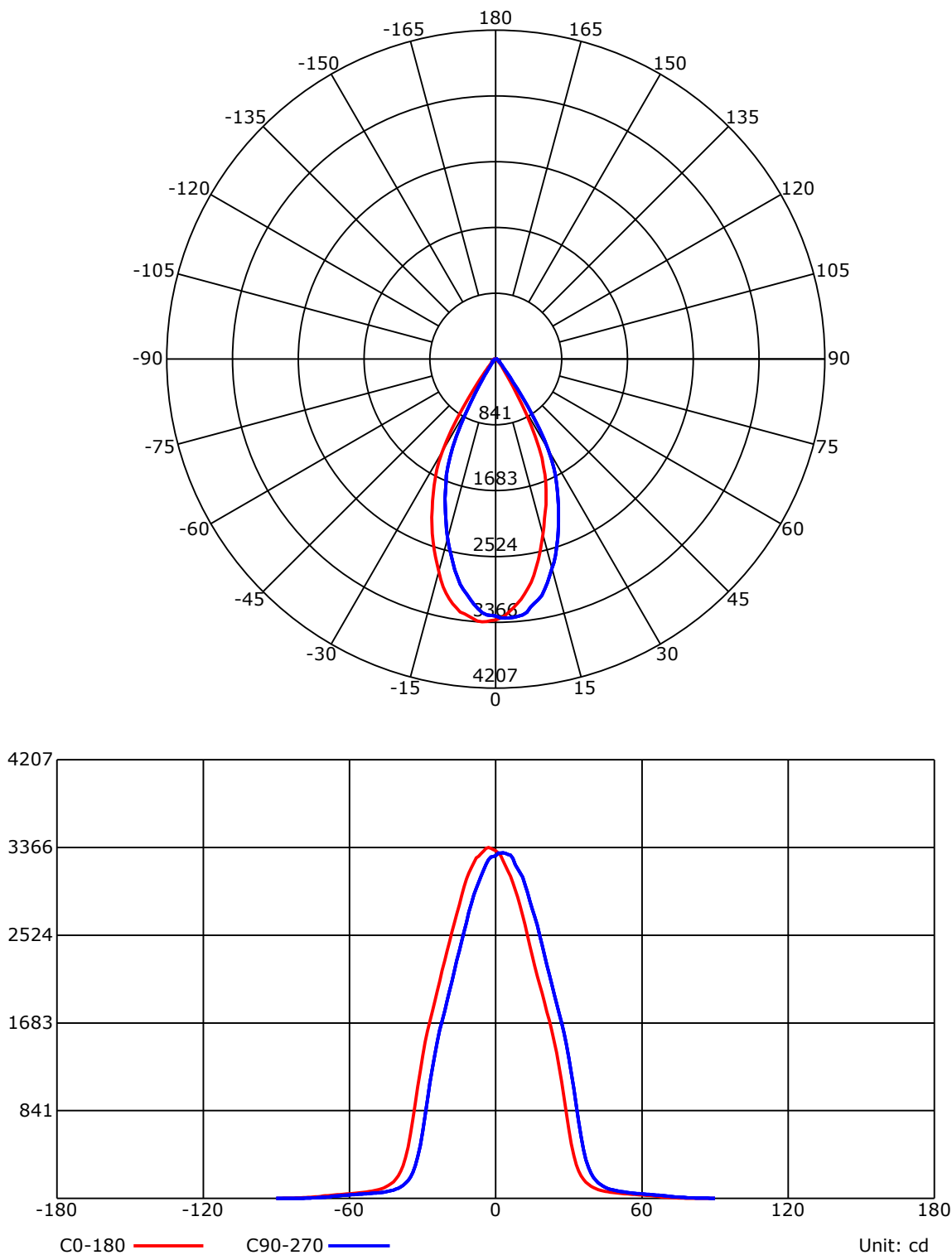
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/10/25 18:13:33

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



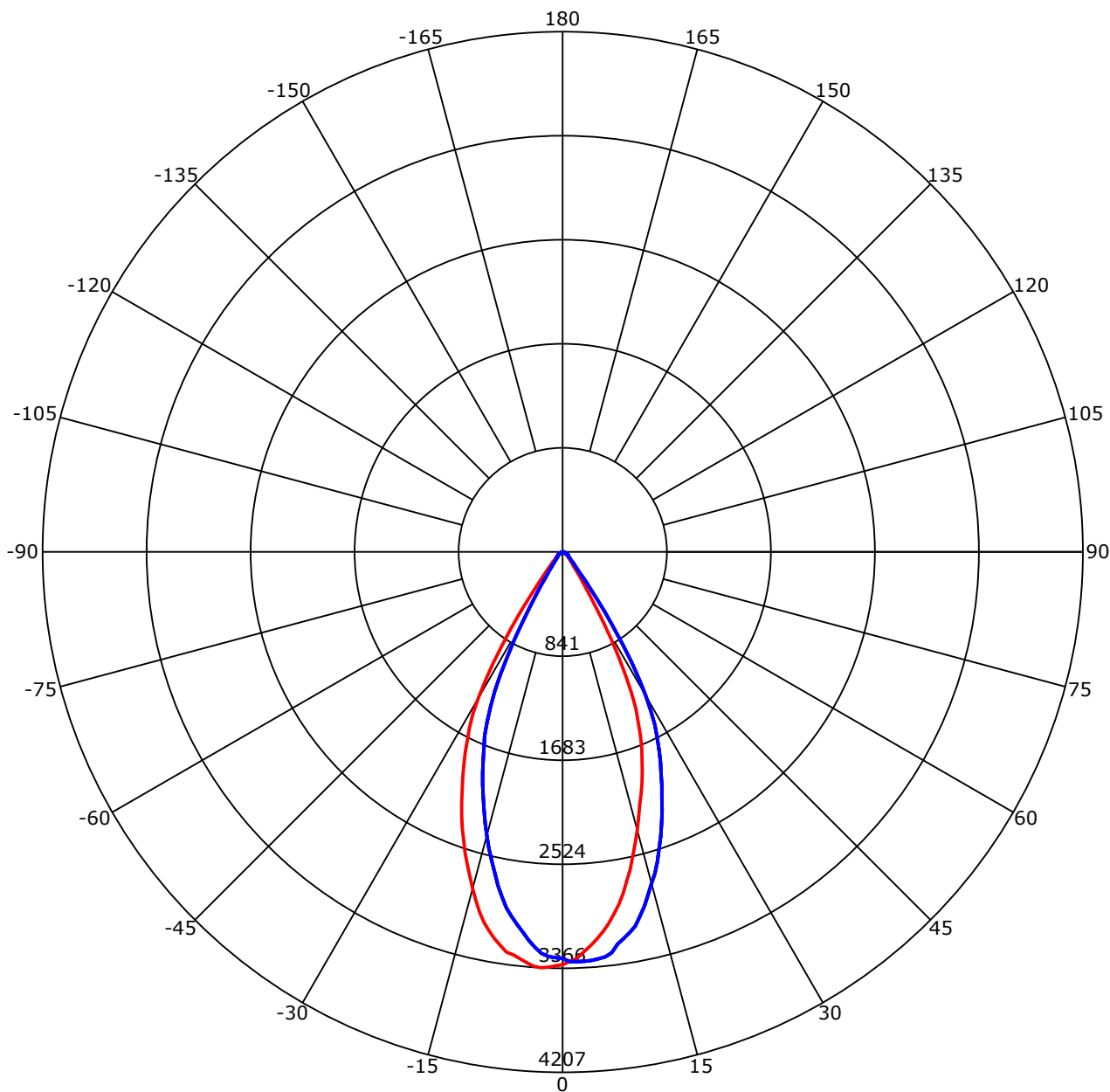
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Operators: QC01
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

C Range: 0 - 360 Deg
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Temperature: 25
Operators: QC01
Test Date: 2024/10/25 18:13:33

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

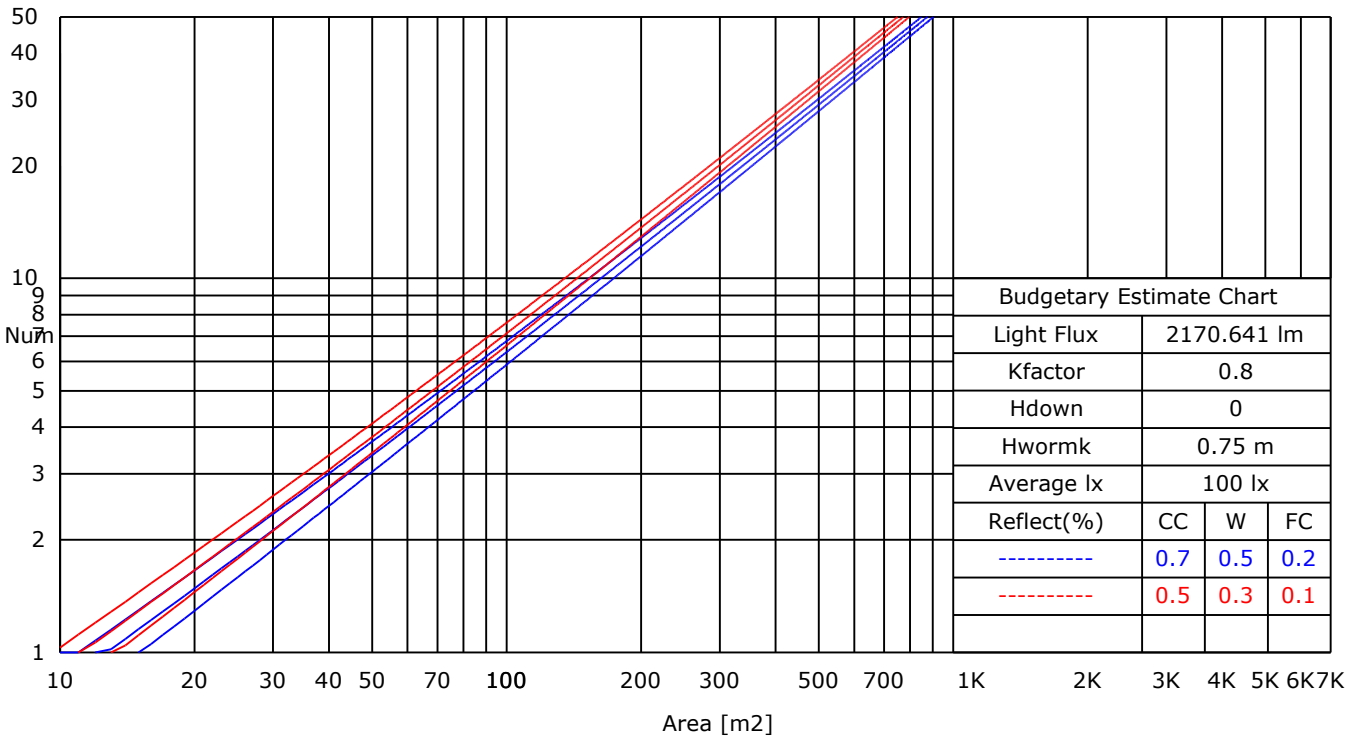
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UTILIZATION FACTORS TABLE

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	0.88	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	0.67
6	0.86	0.84	0.83	0.85	0.83	0.81	0.82	0.80	0.77	0.80	0.76	0.73	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	0.78	0.77	0.76	0.78	0.76	0.75	0.75	0.73	0.71	0.73	0.70	0.67	0.71	0.66	0.63	0.60
10	0.76	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



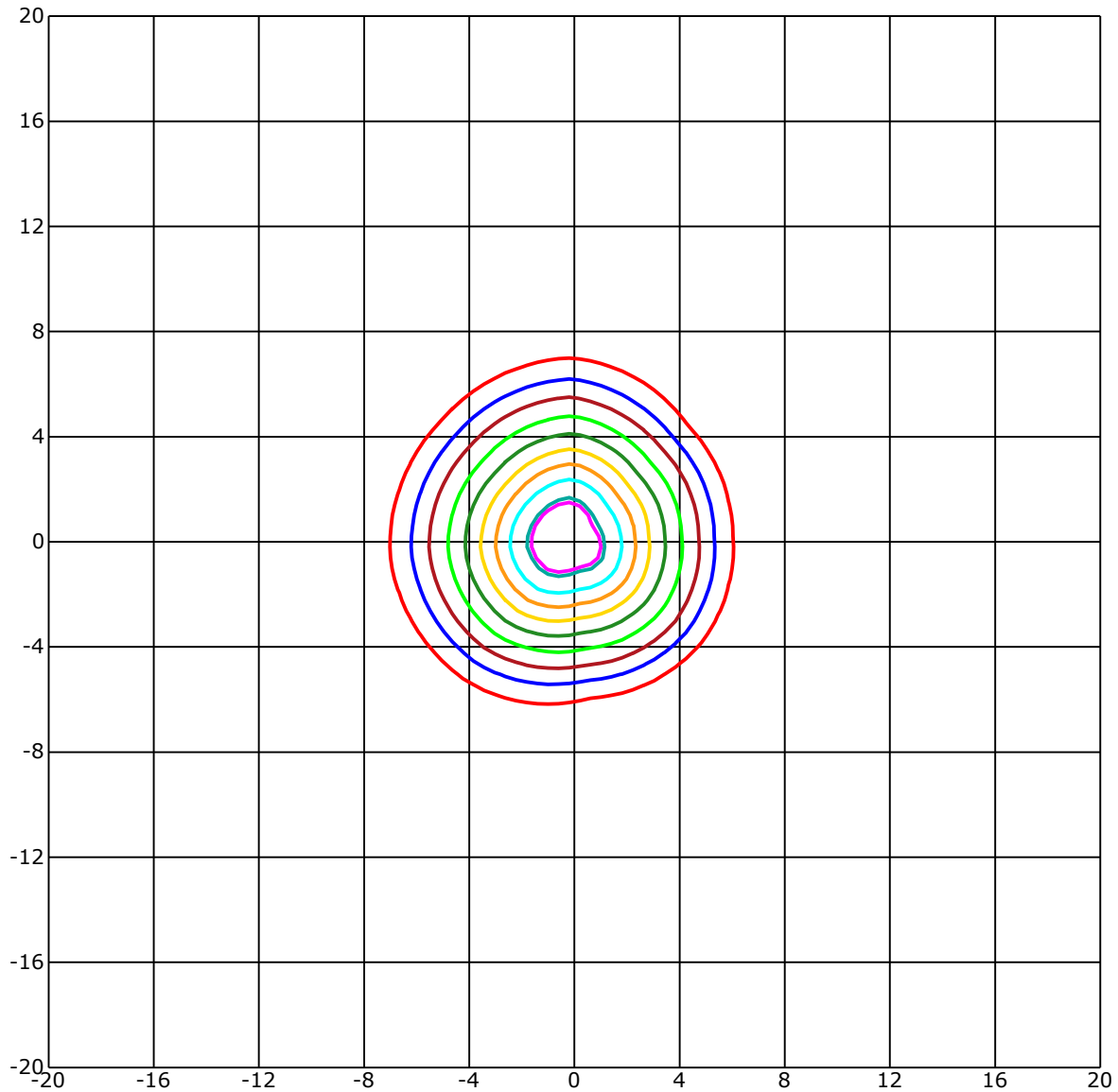
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ISOLX DIAGRAM



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

30.837(92%Emax)	16.759(50%Emax)
30.167(90%Emax)	13.408(40%Emax)
26.815(80%Emax)	10.056(30%Emax)
23.463(70%Emax)	6.704(20%Emax)
20.111(60%Emax)	3.352(10%Emax)

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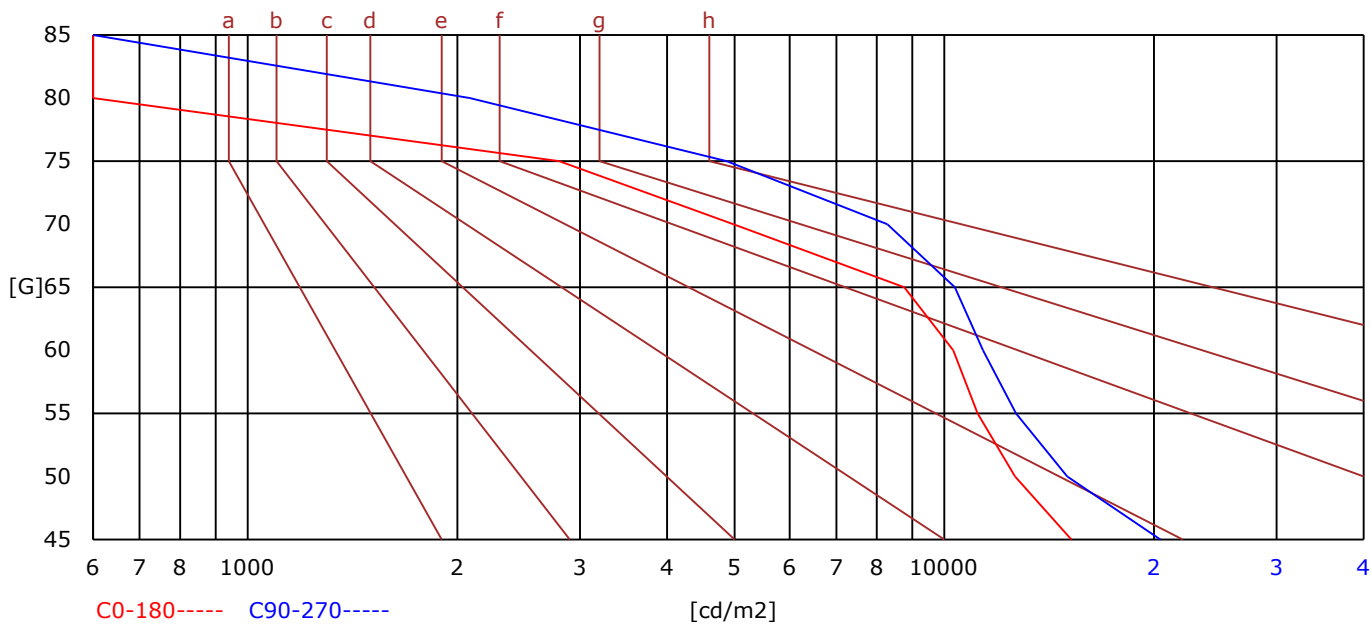
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	15228	12637	11168	10304	8762	4979	2800	209	0
C90	20434	15016	12671	11362	10356	8284	4872	2086	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



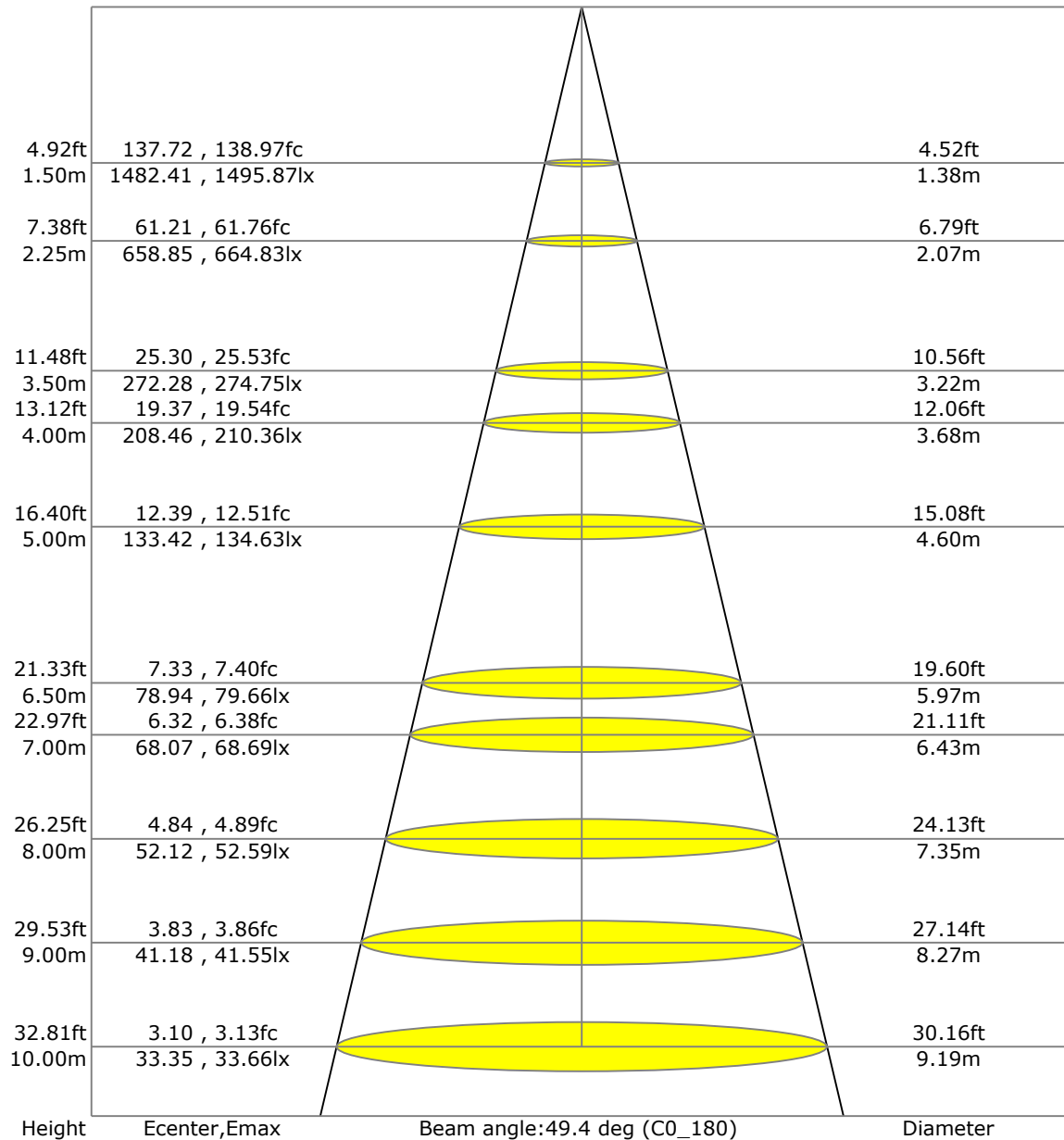
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G Interval: 1.0 Deg
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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 25
 Operators: QC01
 Test Date: 2024/10/25 18:13:33

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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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	9.65	9.70	9.85	9.89	10.13	9.97	10.02	10.16	10.20	10.45
	3H	9.69	9.74	9.89	9.93	10.18	9.98	10.03	10.18	10.22	10.47
	4H	9.68	9.73	9.89	9.93	10.18	9.96	10.02	10.17	10.21	10.46
	6H	9.67	9.72	9.88	9.92	10.17	9.95	10.00	10.16	10.20	10.45
	8H	9.66	9.71	9.87	9.91	10.16	9.94	9.99	10.16	10.19	10.45
	12H	9.65	9.70	9.87	9.90	10.16	9.93	9.98	10.15	10.19	10.44
4H	2H	10.15	10.20	10.36	10.40	10.65	10.88	10.93	11.09	11.12	11.37
	3H	10.21	10.26	10.43	10.46	10.72	10.90	10.96	11.13	11.16	11.42
	4H	10.20	10.25	10.43	10.46	10.72	10.89	10.94	11.12	11.15	11.41
	6H	10.18	10.23	10.42	10.45	10.71	10.87	10.92	11.10	11.14	11.40
	8H	10.17	10.21	10.41	10.44	10.71	10.85	10.90	11.10	11.13	11.39
	12H	10.15	10.20	10.40	10.43	10.70	10.84	10.89	11.09	11.12	11.39
8H	4H	10.14	10.19	10.35	10.39	10.64	10.96	11.01	11.18	11.21	11.47
	6H	10.15	10.19	10.40	10.43	10.70	10.95	11.00	11.21	11.24	11.51
	8H	10.13	10.18	10.39	10.42	10.70	10.94	10.98	11.20	11.22	11.50
	12H	10.12	10.16	10.39	10.41	10.69	10.92	10.96	11.19	11.21	11.50
12H	4H	10.16	10.20	10.41	10.44	10.71	10.99	11.03	11.24	11.27	11.54
	6H	10.13	10.17	10.39	10.42	10.70	10.96	11.00	11.22	11.25	11.53

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ZONAL LUMINOUS FLUX TABLE

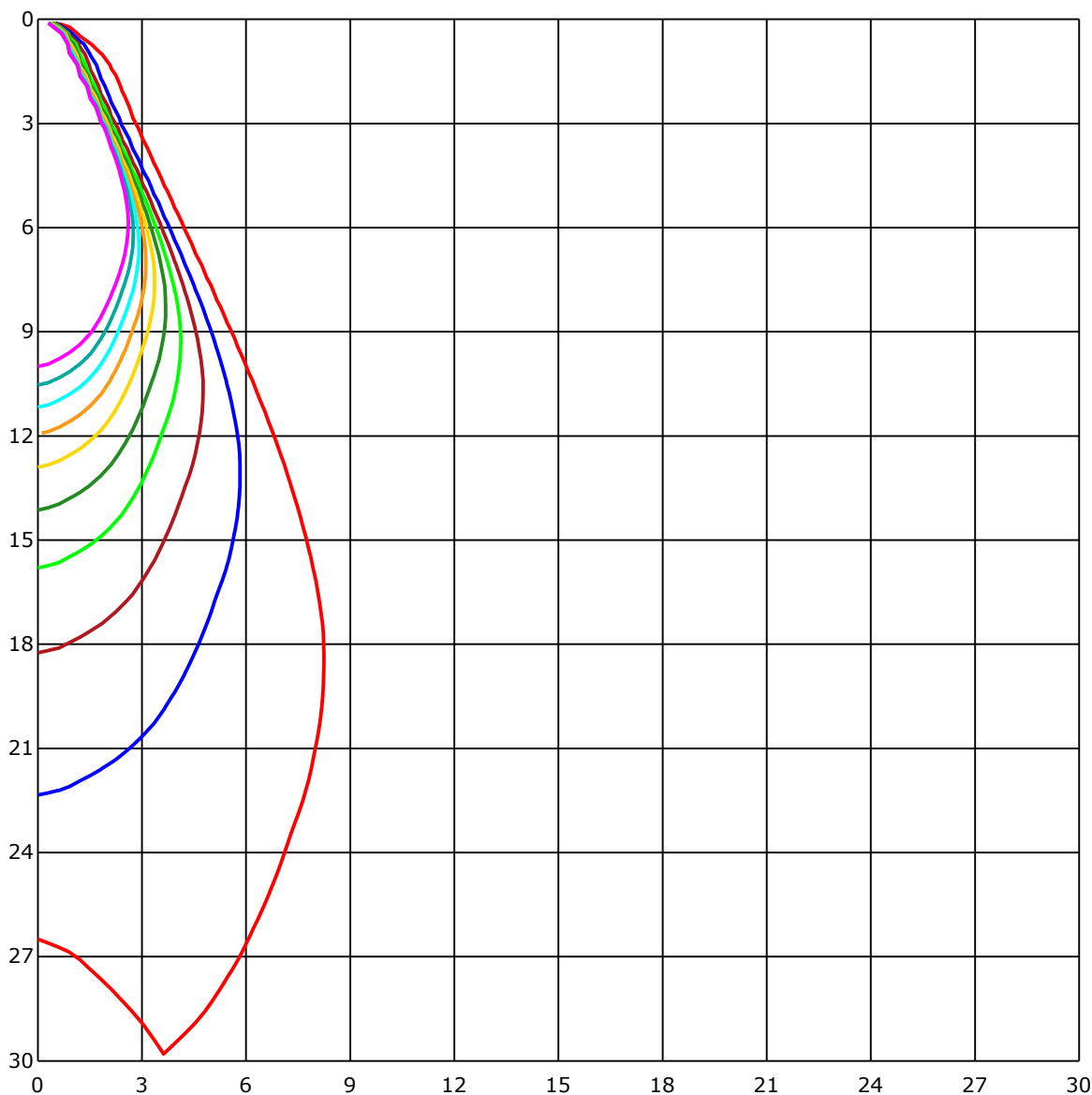
[illegible]

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SPACE ISOLX DIAGRAM



33.408

30.067

26.727

23.386

20.045

16.704

13.363

10.022

6.682

3.341

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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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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	3335.42	3264.46	3286.21	3342.23	3335.42	3264.46	3286.21	3342.23	3335.42	
G1	3312.18	3247.07	3311.21	3344.55	3345.11	3271.97	3279.63	3325.03	3312.18	
G2	3288.76	3236.31	3313.48	3347.47	3358.0	3284.31	3273.41	3288.76	3288.76	
G3	3237.93	3208.16	3313.9	3350.35	3365.7	3284.96	3249.57	3279.02	3237.93	
G4	3191.42	3166.56	3309.17	3358.51	3358.46	3295.02	3205.24	3246.98	3191.42	
G5	3141.98	3127.33	3300.17	3336.16	3333.19	3291.36	3151.95	3198.0	3141.98	
G6	3090.23	3084.94	3291.08	3304.76	3306.2	3271.28	3090.64	3150.33	3090.23	
G7	3027.57	3023.35	3262.37	3273.74	3282.27	3224.99	3032.3	3093.98	3027.57	
G8	2959.07	2969.23	3200.6	3244.7	3266.59	3185.34	2974.7	3032.39	2959.07	
G9	2890.39	2903.75	3162.94	3186.46	3221.56	3146.11	2914.0	2956.94	2890.39	
G10	2807.66	2831.08	3124.5	3118.24	3176.16	3090.46	2830.8	2886.17	2807.66	
G11	2711.61	2752.42	3080.25	3050.06	3120.74	3031.1	2748.39	2796.85	2711.61	
G12	2622.71	2682.39	3007.95	2975.12	3062.08	2963.53	2646.92	2711.66	2622.71	
G13	2520.77	2578.84	2936.72	2903.01	2988.15	2884.87	2558.29	2620.06	2520.77	
G14	2423.43	2476.53	2852.69	2817.02	2905.32	2801.77	2467.53	2523.42	2423.43	
G15	2327.2	2394.49	2774.54	2725.66	2814.47	2715.37	2373.44	2429.88	2327.2	
G16	2230.69	2315.05	2704.65	2636.71	2724.13	2626.0	2279.48	2328.73	2230.69	
G17	2133.07	2218.54	2619.46	2548.27	2639.5	2539.97	2177.64	2241.96	2133.07	
G18	2050.94	2121.61	2524.16	2444.76	2554.26	2450.14	2079.41	2134.23	2050.94	
G19	1971.17	2019.54	2431.68	2347.79	2460.11	2346.45	1989.3	2049.17	1971.17	
G20	1882.82	1931.57	2336.98	2246.51	2374.55	2241.26	1896.18	1960.78	1882.82	
G21	1789.14	1851.89	2240.24	2160.29	2280.22	2154.36	1795.5	1874.29	1789.14	
G22	1702.79	1764.43	2141.79	2067.68	2184.55	2061.7	1698.71	1783.25	1702.79	
G23	1606.24	1663.33	2050.24	1979.8	2080.66	1952.85	1615.98	1698.11	1606.24	
G24	1500.73	1567.79	1956.42	1885.24	1989.07	1857.78	1503.0	1603.36	1500.73	
G25	1396.8	1477.45	1868.77	1792.39	1892.1	1770.59	1382.8	1500.96	1396.8	
G26	1265.37	1360.21	1779.22	1702.47	1798.47	1675.99	1253.69	1383.68	1265.37	
G27	1116.69	1220.29	1681.92	1612.78	1698.06	1560.46	1108.06	1251.41	1116.69	
G28	964.76	1079.68	1584.72	1506.11	1606.19	1445.13	947.97	1101.85	964.76	
G29	812.65	925.9	1472.16	1390.31	1497.9	1317.96	794.28	938.42	812.65	
G30	661.04	780.09	1345.88	1261.66	1366.89	1165.76	641.01	774.48	661.04	
G31	525.77	631.74	1206.29	1117.8	1221.36	1008.96	507.86	626.22	525.77	
G32	411.36	506.01	1050.65	955.35	1068.74	851.79	398.42	495.95	411.36	
G33	324.77	394.29	890.0	799.57	911.62	703.85	312.53	393.73	324.77	
G34	263.56	312.48	735.76	652.19	762.05	564.4	249.74	314.85	263.56	
G35	217.83	254.7	595.61	520.53	619.03	446.97	204.05	257.25	217.83	
G36	182.95	208.83	470.3	406.39	491.68	353.66	170.43	214.68	182.95	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	156.01	176.09	370.92	319.16	389.7	286.19	145.85	182.91	156.01	
G38	135.23	149.42	297.69	256.69	314.71	235.92	126.33	158.1	135.23	
G39	118.82	129.34	244.08	213.05	259.2	197.7	111.26	138.76	118.82	
G40	105.27	113.76	204.1	178.78	217.23	169.46	98.46	123.69	105.27	
G41	94.75	100.91	175.16	152.07	185.13	147.38	88.67	111.02	94.75	
G42	85.7	90.48	151.42	132.26	159.63	129.85	80.32	100.45	85.7	
G43	77.87	81.58	133.01	116.64	139.96	115.52	73.83	91.41	77.87	
G44	71.98	74.71	117.89	103.6	124.61	103.37	68.17	84.54	71.98	
G45	67.06	68.91	105.83	92.47	111.86	94.0	63.91	78.56	67.06	
G46	63.21	64.69	95.77	83.89	101.05	86.07	60.29	73.92	63.21	
G47	59.83	60.75	87.88	77.03	92.15	79.67	57.37	69.84	59.83	
G48	56.81	57.88	81.02	70.68	84.82	74.8	54.96	66.41	56.81	
G49	54.31	54.68	75.73	65.99	78.56	70.4	52.54	63.58	54.31	
G50	51.99	51.99	71.33	61.77	73.83	66.97	50.55	60.94	51.99	
G51	49.48	49.44	67.06	58.29	69.33	63.81	48.97	58.67	49.48	
G52	46.93	46.84	63.54	54.91	65.76	61.36	46.75	56.21	46.93	
G53	44.94	44.71	60.57	51.94	62.65	58.85	45.17	53.94	44.94	
G54	43.32	42.85	57.37	49.21	59.69	56.67	43.41	51.85	43.32	
G55	41.18	41.0	54.86	46.52	56.86	54.45	41.92	49.81	41.18	
G56	39.56	39.37	52.4	44.15	54.4	52.27	40.16	47.44	39.56	
G57	37.94	37.66	50.18	42.2	51.8	50.27	38.63	45.36	37.94	
G58	36.36	35.94	47.58	40.25	49.72	48.23	37.24	43.64	36.36	
G59	34.6	34.55	45.59	38.35	47.07	46.01	35.57	41.83	34.6	
G60	32.97	32.97	43.36	36.36	45.08	44.47	33.85	40.12	32.97	
G61	31.4	31.07	41.55	34.69	42.99	42.43	32.28	38.35	31.4	
G62	29.36	29.45	39.7	32.88	41.41	40.72	30.52	36.59	29.36	
G63	27.45	27.64	38.17	31.35	39.23	38.86	28.8	34.64	27.45	
G64	25.32	25.83	36.13	29.5	37.29	37.29	26.85	32.51	25.32	
G65	22.91	23.7	34.36	28.01	35.25	35.15	24.76	30.19	22.91	
G66	20.54	21.56	32.32	26.06	33.44	33.25	22.59	27.83	20.54	
G67	17.53	19.06	30.33	24.25	31.3	31.12	20.27	25.32	17.53	
G68	14.1	16.28	28.2	22.26	29.31	28.94	17.07	22.12	14.1	
G69	11.83	12.99	26.2	20.27	27.27	26.57	13.77	18.5	11.83	
G70	10.39	10.9	23.61	18.13	25.09	24.25	11.5	16.0	10.39	
G71	8.9	9.51	20.59	15.4	22.72	20.92	10.06	14.38	8.9	
G72	7.61	8.35	17.48	12.52	19.43	17.67	8.67	12.71	7.61	
G73	6.45	6.96	15.49	10.9	16.7	15.63	7.47	11.36	6.45	

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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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