

Report No.:

Test Time: 2024/10/27 14:15:07

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP151CT095H88-24°-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): 14.40 W
Power Factor: 0.9280
Lamp Luminous Flux: 1488.81

Photometric Results

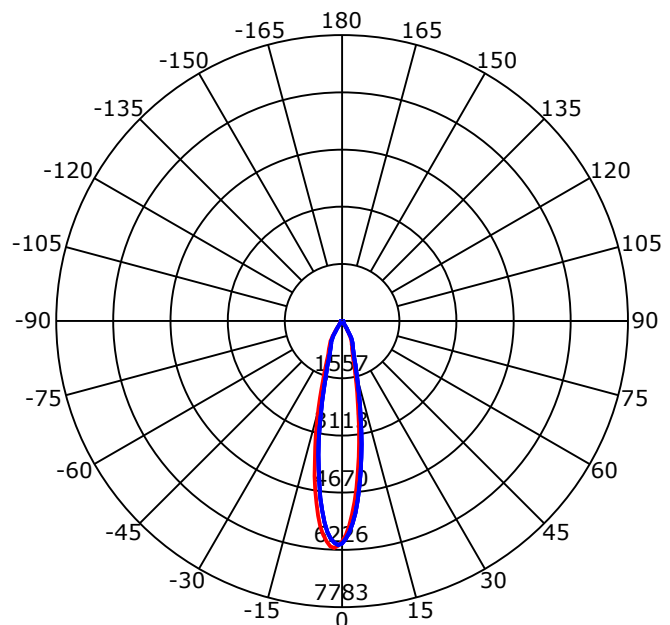
CIE Class: Direct
Luminaire Luminous Flux: 1488.813 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 103.39 lm/W
Beam Angle(50%) C0-180,C90-270: 21.9,21.6
Field Angle(10%) C0-180,C90-270: 54.8,54.6
S/MH C0-180,C90-270: 0.389,0.389

Max. Intensity: 6226.13 cd
Max.Intensity Angle: C=225 Gamma=3
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 5993.93 cd
Effective Luminous Flux: 1202.75 lm
ERP(ϕ use)(120deg): 1462.63 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 21.9 deg,21.6 deg

C0-180 — C90-270 —

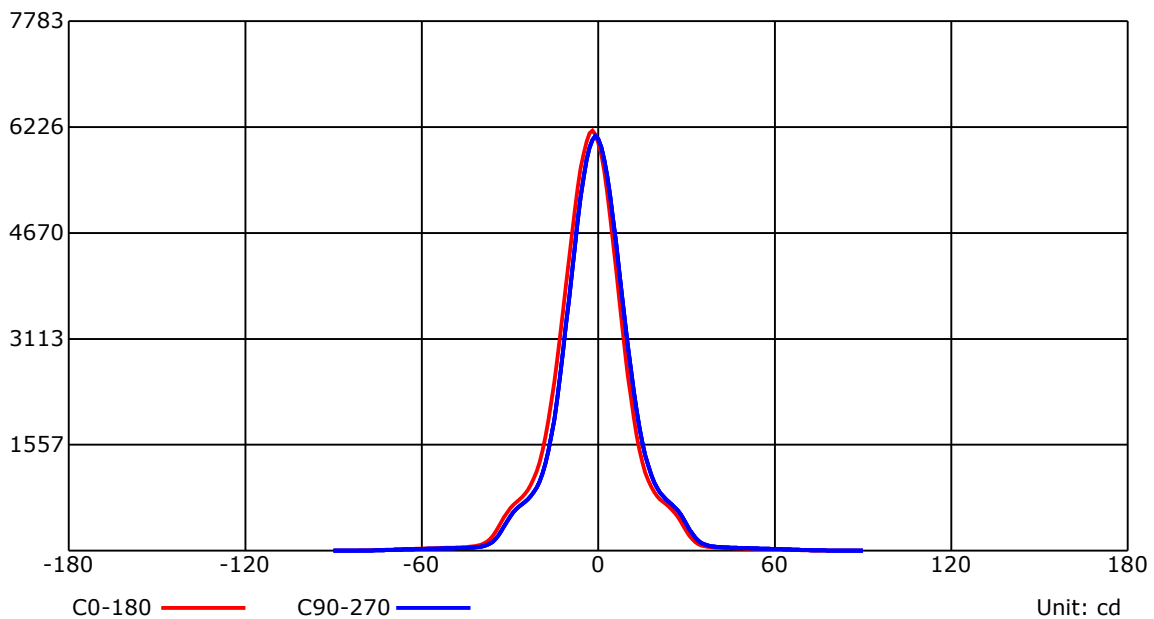
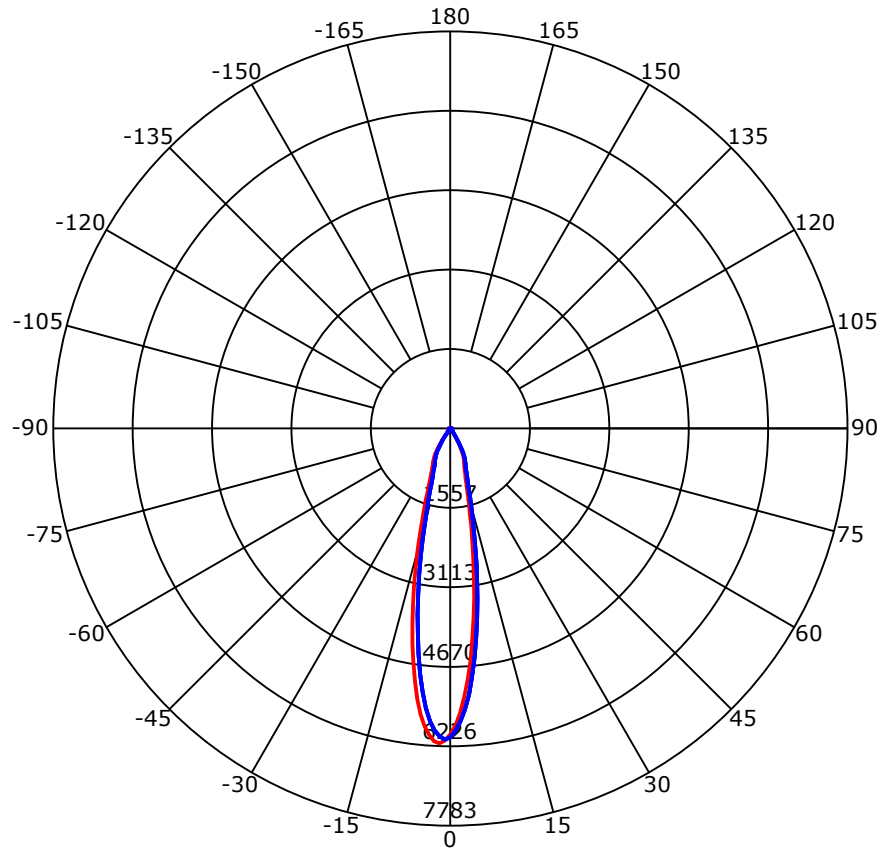
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/10/27 14:15:07

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



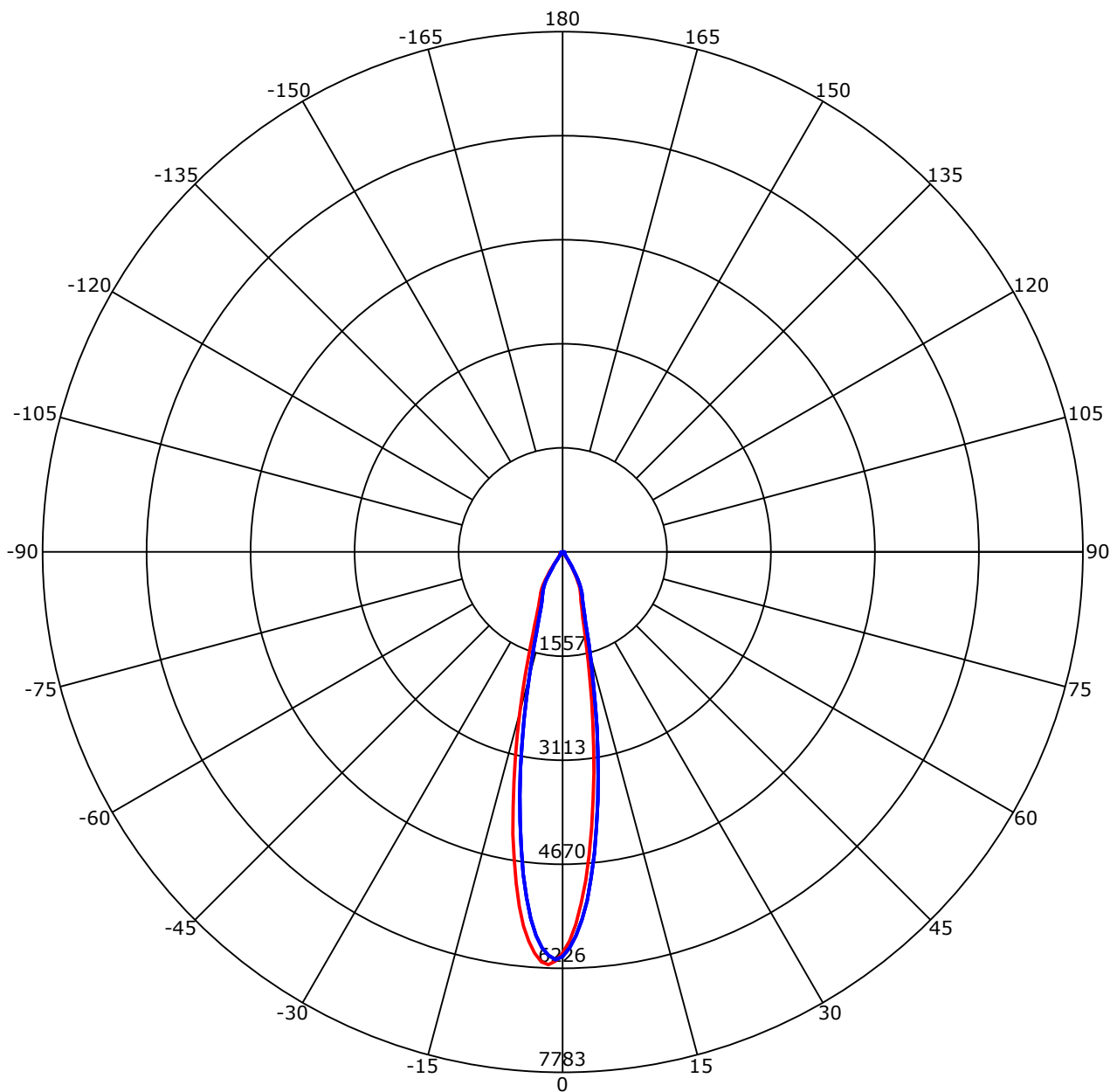
C Range: 0 - 360 Deg
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Temperature: 25
Operators: QC01
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Humidity: 60
Test Distance: 6.81 m
Remarks:

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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 14:15:07

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

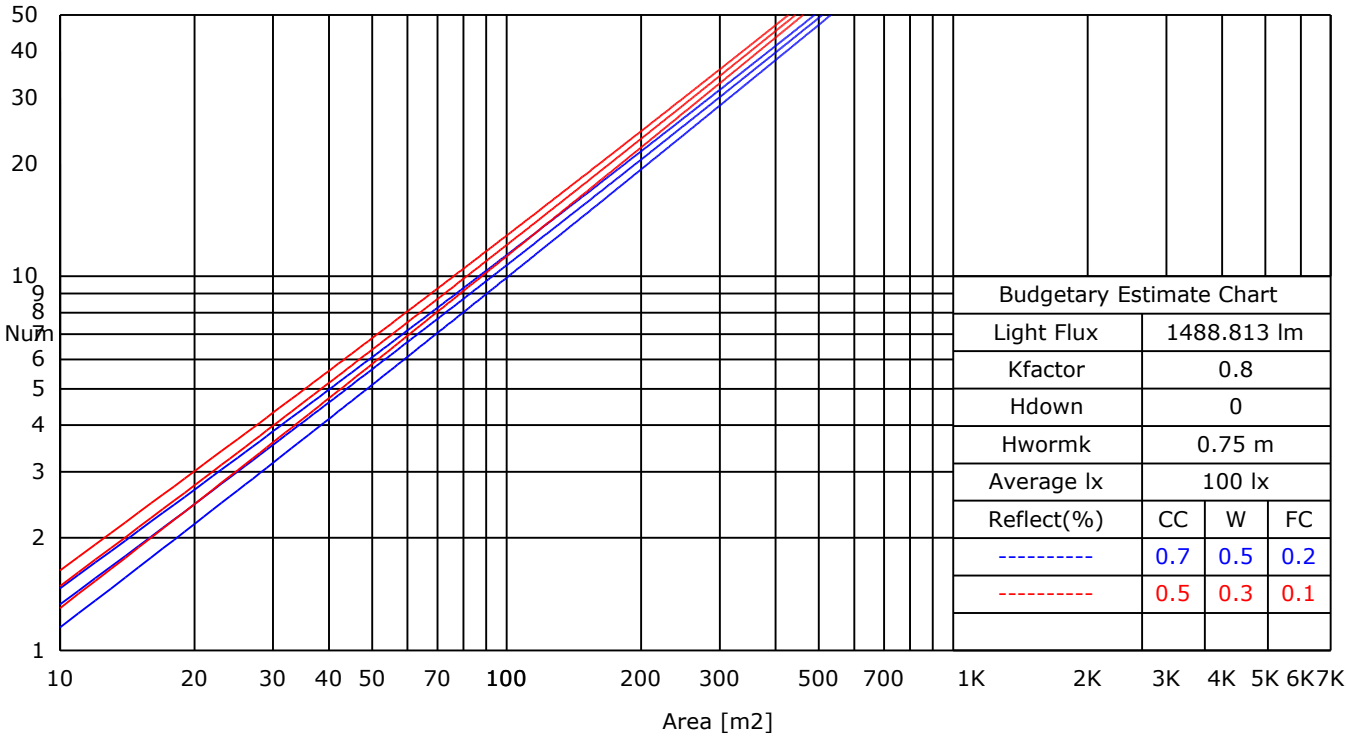
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UTILIZATION FACTORS TABLE

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	0.89	0.86	0.83	0.89	0.85	0.82	0.86	0.82	0.79	0.83	0.79	0.75	0.78	0.73	0.70	0.64
2	0.85	0.82	0.80	0.85	0.81	0.79	0.83	0.79	0.75	0.80	0.75	0.72	0.75	0.71	0.67	0.62
3	0.82	0.79	0.77	0.81	0.78	0.76	0.80	0.76	0.73	0.77	0.73	0.69	0.73	0.69	0.65	0.60
4	0.79	0.76	0.75	0.78	0.75	0.73	0.77	0.73	0.70	0.75	0.70	0.67	0.72	0.67	0.63	0.59
5	0.76	0.74	0.73	0.76	0.73	0.71	0.74	0.71	0.68	0.72	0.68	0.65	0.70	0.65	0.61	0.57
6	0.74	0.72	0.71	0.74	0.71	0.69	0.72	0.69	0.66	0.70	0.66	0.63	0.68	0.63	0.59	0.56
7	0.72	0.70	0.69	0.72	0.69	0.68	0.70	0.67	0.64	0.69	0.64	0.61	0.66	0.62	0.58	0.54
8	0.70	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	0.56	0.53
9	0.69	0.67	0.66	0.68	0.66	0.65	0.67	0.64	0.62	0.65	0.61	0.58	0.63	0.59	0.55	0.52
10	0.67	0.66	0.65	0.67	0.65	0.63	0.65	0.62	0.60	0.64	0.60	0.57	0.62	0.57	0.54	0.51

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



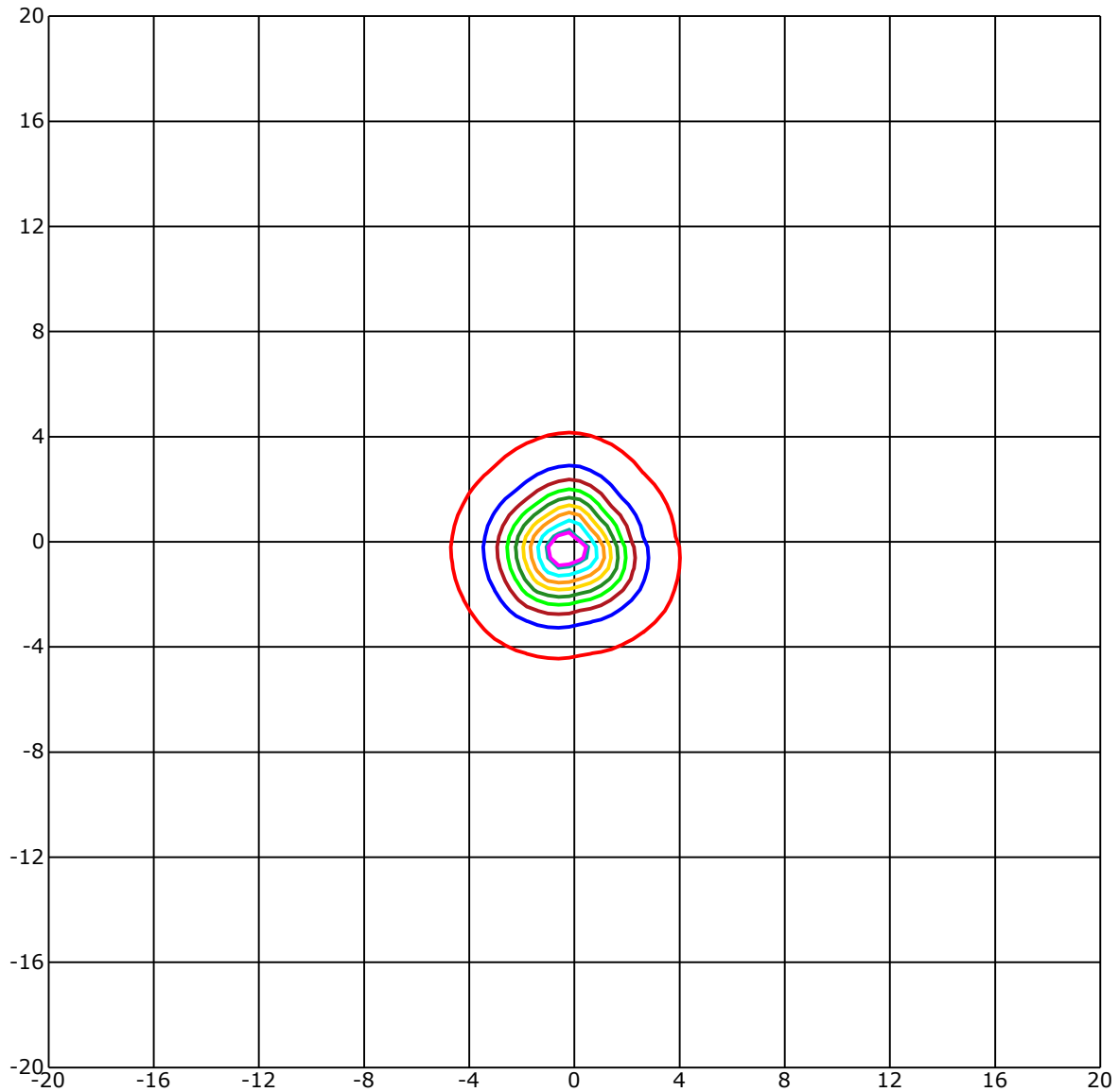
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Operators: QC01
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Humidity: 60
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ISOLX DIAGRAM



C Range: 0 - 360 Deg
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Temperature: 25
Operators: QC01
Test Date: 2024/10/27 14:15:07

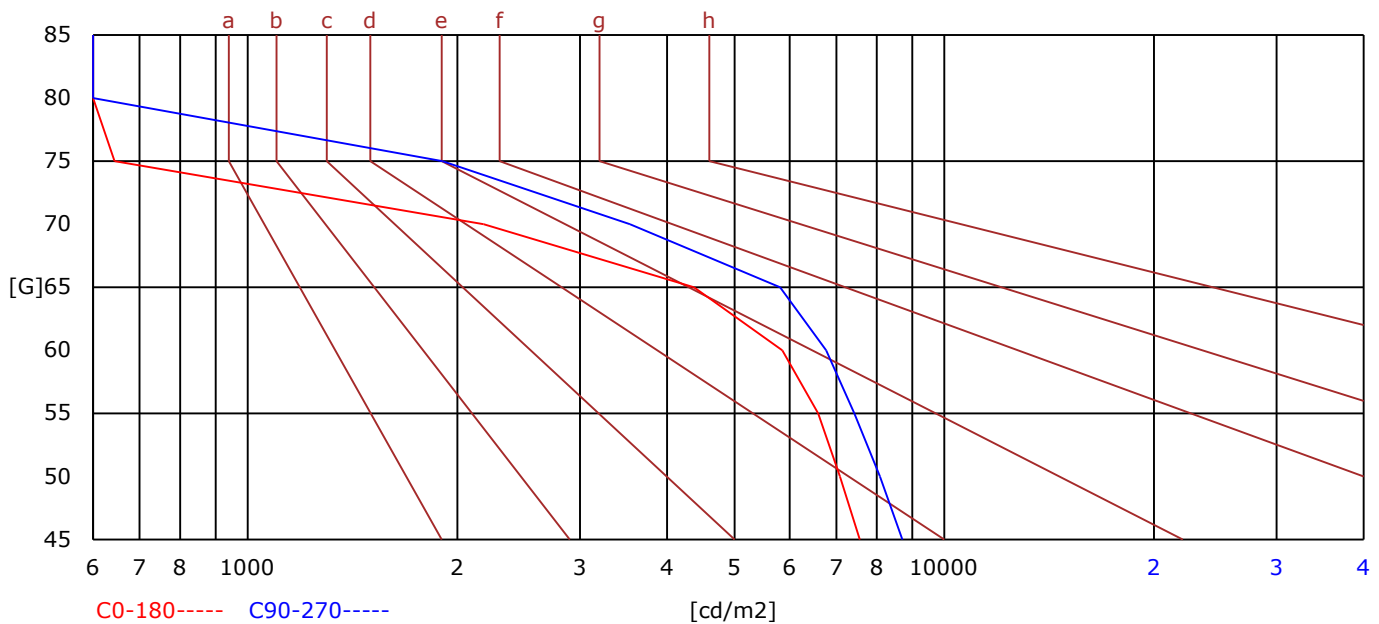
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Test Distance: 6.81 m
Remarks:

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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	7563	7080	6595	5855	4372	2182	644	0	0
C90	8711	8083	7428	6768	5813	3538	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	6.36	6.42	6.56	6.61	6.85	6.71	6.77	6.91	6.95	7.20
	3H	6.41	6.47	6.62	6.67	6.91	6.73	6.79	6.94	6.98	7.23
	4H	6.40	6.46	6.61	6.66	6.91	6.72	6.78	6.93	6.98	7.22
	6H	6.39	6.45	6.60	6.65	6.90	6.70	6.76	6.92	6.96	7.22
	8H	6.38	6.44	6.60	6.64	6.90	6.69	6.75	6.91	6.96	7.21
	12H	6.37	6.43	6.59	6.64	6.89	6.68	6.75	6.90	6.95	7.21
4H	2H	7.12	7.18	7.33	7.38	7.63	7.83	7.89	8.04	8.08	8.33
	3H	7.17	7.23	7.39	7.44	7.69	7.85	7.91	8.07	8.12	8.37
	4H	7.15	7.22	7.38	7.43	7.69	7.83	7.89	8.06	8.11	8.37
	6H	7.13	7.19	7.37	7.42	7.68	7.81	7.87	8.05	8.09	8.36
	8H	7.12	7.18	7.36	7.41	7.68	7.80	7.86	8.04	8.08	8.35
	12H	7.11	7.17	7.36	7.40	7.67	7.78	7.84	8.03	8.07	8.34
8H	4H	7.10	7.16	7.32	7.36	7.62	7.88	7.94	8.10	8.14	8.40
	6H	7.10	7.15	7.35	7.39	7.67	7.85	7.91	8.11	8.15	8.42
	8H	7.08	7.14	7.34	7.38	7.66	7.84	7.89	8.10	8.14	8.42
	12H	7.06	7.12	7.34	7.37	7.66	7.82	7.87	8.09	8.13	8.41
12H	4H	7.11	7.17	7.36	7.40	7.67	7.89	7.95	8.14	8.18	8.45
	6H	7.08	7.14	7.34	7.38	7.66	7.86	7.92	8.12	8.16	8.44

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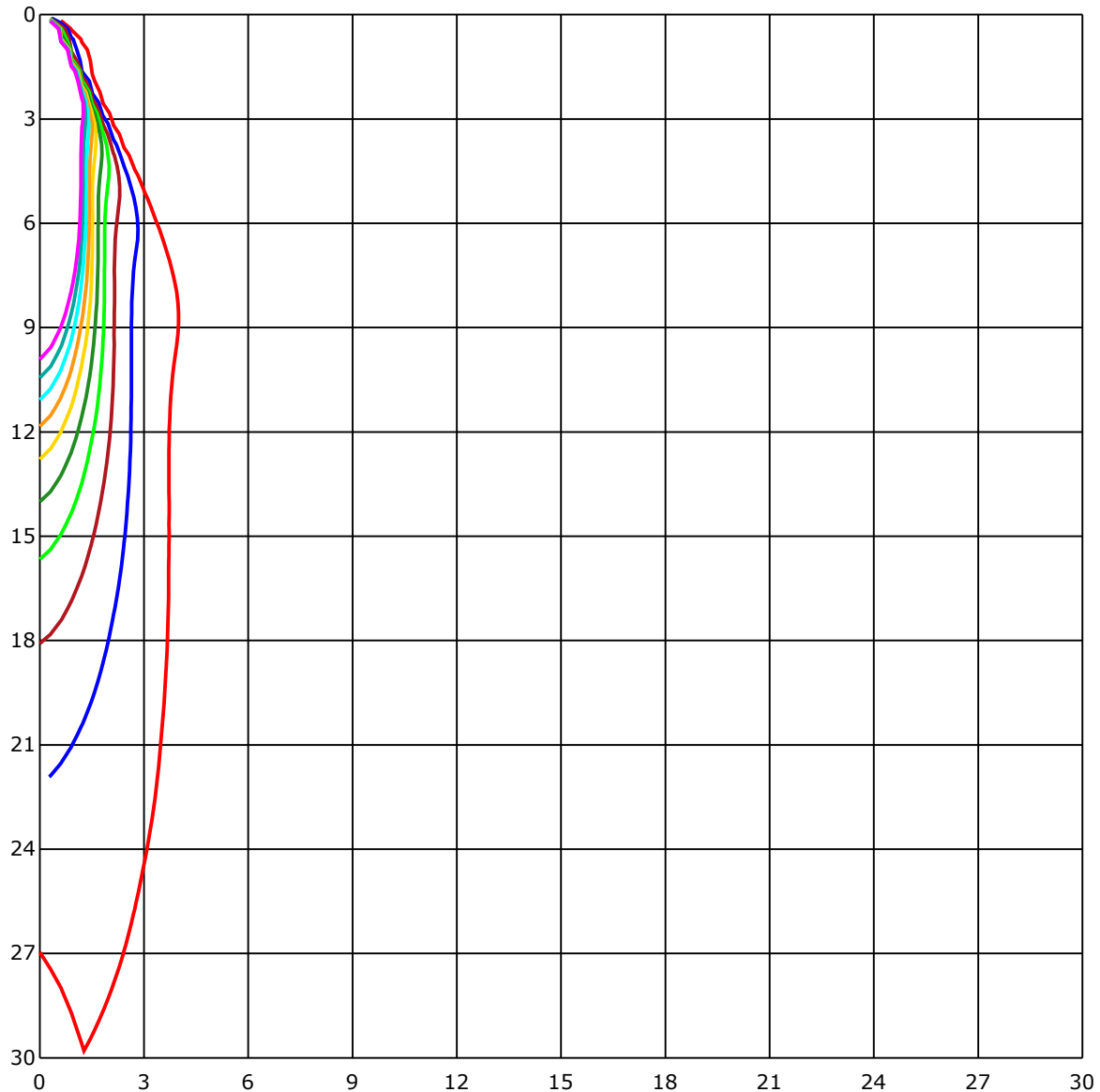
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

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G Interval: 1.0 Deg
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Humidity: 60
Test Distance: 6.81 m
Remarks:

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SPACE ISOLX DIAGRAM



Unit of illumination:lx

61.083

54.975

48.866

42.758

36.65

30.541

24.433

18.325

12.217

6.108

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G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.81 m

Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	5993.93	5831.98	6050.69	6000.09	5993.93	5831.98	6050.69	6000.09	5993.93	
G1	5818.11	5554.98	5922.97	5919.72	6117.24	6027.97	6095.49	6009.83	5818.11	
G2	5575.01	5224.59	5741.55	5759.12	6177.02	6159.86	6035.99	5951.96	5575.01	
G3	5264.85	4860.68	5511.66	5549.69	6136.53	6226.13	5924.36	5819.78	5264.85	
G4	4920.69	4479.7	5227.0	5277.83	6016.46	6190.51	5752.12	5620.04	4920.69	
G5	4544.72	4088.7	4884.28	4959.27	5841.72	6096.19	5500.34	5357.27	4544.72	
G6	4134.71	3670.72	4522.92	4632.28	5626.3	5920.51	5194.77	5050.64	4134.71	
G7	3727.15	3259.27	4138.88	4262.24	5336.78	5676.99	4851.31	4713.02	3727.15	
G8	3343.72	2887.65	3762.54	3875.88	5001.34	5395.3	4463.89	4326.52	3343.72	
G9	2957.22	2540.3	3391.58	3502.83	4650.13	5052.26	4078.55	3954.26	2957.22	
G10	2582.96	2221.0	3030.96	3146.34	4287.19	4668.77	3693.72	3590.9	2582.96	
G11	2262.69	1933.23	2674.97	2791.33	3894.43	4275.88	3311.81	3202.55	2262.69	
G12	1964.54	1682.9	2349.97	2457.93	3514.71	3908.76	2927.77	2836.83	1964.54	
G13	1695.6	1459.87	2063.55	2152.32	3159.05	3526.72	2568.17	2497.59	1695.6	
G14	1480.23	1281.37	1806.35	1870.91	2810.72	3128.76	2233.66	2178.75	1480.23	
G15	1301.41	1135.89	1586.71	1641.99	2479.92	2769.07	1925.86	1897.25	1301.41	
G16	1145.63	1020.23	1397.73	1448.37	2173.42	2439.01	1677.28	1646.35	1145.63	
G17	1029.04	931.88	1242.23	1280.82	1908.52	2136.08	1461.13	1438.91	1029.04	
G18	935.96	854.99	1109.83	1144.15	1672.51	1861.54	1280.68	1263.1	935.96	
G19	861.85	798.69	1004.27	1030.06	1470.68	1622.93	1133.66	1127.64	861.85	
G20	802.07	751.62	922.05	941.25	1301.41	1421.1	1019.35	1016.84	802.07	
G21	755.65	713.77	852.86	869.41	1168.31	1253.5	928.64	929.89	755.65	
G22	717.02	677.18	799.57	809.82	1053.53	1121.7	858.1	862.27	717.02	
G23	682.42	643.93	755.88	758.94	966.2	1014.2	799.94	808.66	682.42	
G24	644.49	600.9	717.81	716.74	892.04	929.52	753.8	764.37	644.49	
G25	605.35	552.48	678.11	676.63	835.19	862.73	716.97	727.69	605.35	
G26	555.54	490.8	637.95	634.05	786.4	809.4	682.19	694.48	555.54	
G27	496.5	421.19	589.81	588.65	745.91	767.11	647.74	658.54	496.5	
G28	428.01	350.56	532.21	533.09	704.78	728.34	609.75	619.58	428.01	
G29	355.75	279.05	463.3	466.87	667.4	690.03	561.75	566.72	355.75	
G30	285.07	213.14	388.03	396.84	621.67	651.21	501.93	502.02	285.07	
G31	220.01	159.26	313.22	324.4	562.59	606.41	433.66	432.41	220.01	
G32	165.28	118.17	246.67	257.29	492.98	550.02	360.71	357.47	165.28	
G33	124.71	91.69	188.98	197.01	419.19	480.97	289.8	288.09	124.71	
G34	97.2	73.32	145.02	150.4	344.06	408.2	224.69	223.35	97.2	
G35	78.7	61.68	114.32	114.55	275.1	333.72	170.11	170.52	78.7	
G36	66.74	53.61	93.36	92.47	212.12	263.56	127.44	132.87	66.74	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	58.06	48.18	78.98	76.15	162.97	202.76	97.9	108.52	58.06	
G38	52.22	44.75	69.38	64.56	126.79	154.2	79.44	92.15	52.22	
G39	47.81	42.16	62.33	56.95	102.91	121.32	66.64	78.98	47.81	
G40	44.71	40.16	57.92	51.34	86.72	96.65	57.88	70.31	44.71	
G41	42.53	38.63	54.21	47.58	75.55	81.16	51.99	63.44	42.53	
G42	40.86	37.19	51.48	45.08	67.57	69.89	47.67	59.22	40.86	
G43	39.23	36.17	49.02	42.81	61.96	62.75	44.52	55.74	39.23	
G44	37.98	35.11	46.7	41.0	57.92	57.69	42.57	53.19	37.98	
G45	36.73	34.23	44.94	39.42	55.05	54.54	40.58	50.55	36.73	
G46	35.62	33.21	43.5	38.31	52.36	51.57	39.1	48.37	35.62	
G47	34.83	32.51	42.06	36.82	50.32	49.3	37.98	46.42	34.83	
G48	33.76	31.35	40.58	35.94	47.72	46.98	36.82	44.89	33.76	
G49	32.74	30.52	39.33	34.41	45.96	45.26	35.62	43.32	32.74	
G50	31.67	29.12	37.94	33.25	44.43	43.87	34.87	42.16	31.67	
G51	30.65	28.29	36.59	32.05	42.76	42.39	33.85	41.0	30.65	
G52	29.4	27.22	35.43	30.79	41.46	41.37	33.11	39.7	29.4	
G53	28.52	26.39	34.04	29.54	40.16	40.12	32.09	38.45	28.52	
G54	27.27	25.18	33.07	28.47	38.72	38.82	31.44	37.29	27.27	
G55	26.25	24.21	31.49	27.27	37.29	37.98	30.42	35.85	26.25	
G56	25.23	23.19	30.42	26.34	36.03	36.73	29.45	34.83	25.23	
G57	24.21	22.08	29.08	25.0	34.92	35.62	28.34	33.34	24.21	
G58	22.96	20.96	27.87	23.88	33.39	34.5	27.36	32.14	22.96	
G59	21.94	19.9	26.62	22.72	32.14	33.39	26.3	30.98	21.94	
G60	20.78	18.74	25.55	21.66	30.75	32.14	25.46	29.77	20.78	
G61	19.8	17.62	24.16	20.45	29.63	30.89	24.35	28.38	19.8	
G62	18.6	16.28	23.1	19.39	28.29	29.68	23.33	27.36	18.6	
G63	17.16	14.84	21.66	18.23	27.04	28.57	22.35	26.02	17.16	
G64	15.68	13.31	20.36	17.11	25.79	27.41	21.19	24.9	15.68	
G65	14.28	11.83	18.97	15.72	24.72	26.39	19.94	23.37	14.28	
G66	12.48	10.02	17.39	14.52	23.28	25.18	18.78	21.84	12.48	
G67	10.53	8.16	15.58	12.99	21.98	23.93	17.58	20.36	10.53	
G68	8.49	6.54	13.59	11.45	20.54	22.72	16.14	18.6	8.49	
G69	6.96	5.8	11.55	9.55	19.11	21.38	14.42	16.46	6.96	
G70	5.98	4.78	10.16	7.74	17.48	19.76	12.66	14.52	5.98	
G71	5.05	3.99	9.14	6.54	15.72	18.18	10.81	12.24	5.05	
G72	4.22	3.15	8.25	5.66	13.5	16.37	8.58	10.57	4.22	
G73	3.43	2.37	7.23	4.68	11.64	14.33	7.0	9.41	3.43	

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Test Distance: 6.81 m
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

[illegible]

C Range: 0 - 360 Deg
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