

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP101SCT095
Lamp Type:
Luminous Width: 86 mm
Luminous Length: 86 mm
Luminous Height: 95 mm

Voltage(V): 219.80 V
Current(A): 0.1360 A
Power(W): 28.55 W
Power Factor: 0.9540
Lamp Luminous Flux: 3003.29

Photometric Results

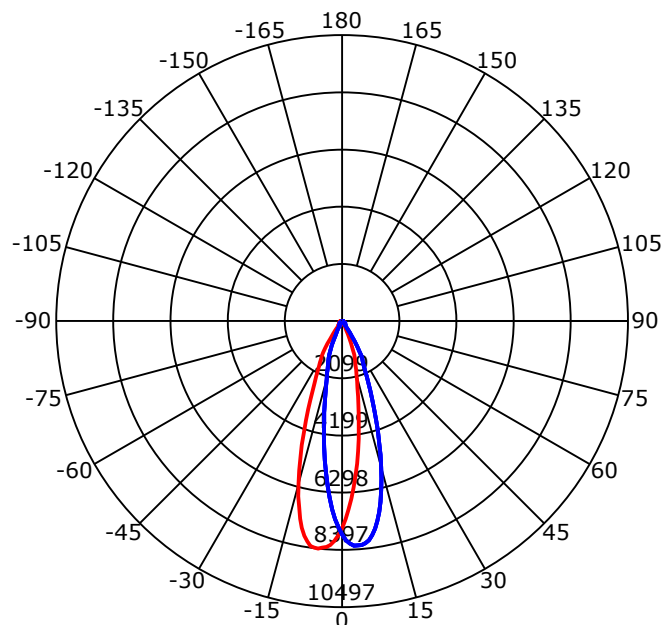
CIE Class: Direct
Luminaire Luminous Flux: 3003.287 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 105.19 lm/W
Beam Angle(50%) C0-180,C90-270: 27.6,27.5
Field Angle(10%) C0-180,C90-270: 56.0,55.9
S/MH C0-180,C90-270: 0.536,0.499

Max. Intensity: 8397.35 cd
Max.Intensity Angle: C=180 Gamma=6
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 7605.31 cd
Effective Luminous Flux: 2457.80 lm
ERP(ϕ use)(120deg): 2914.40 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



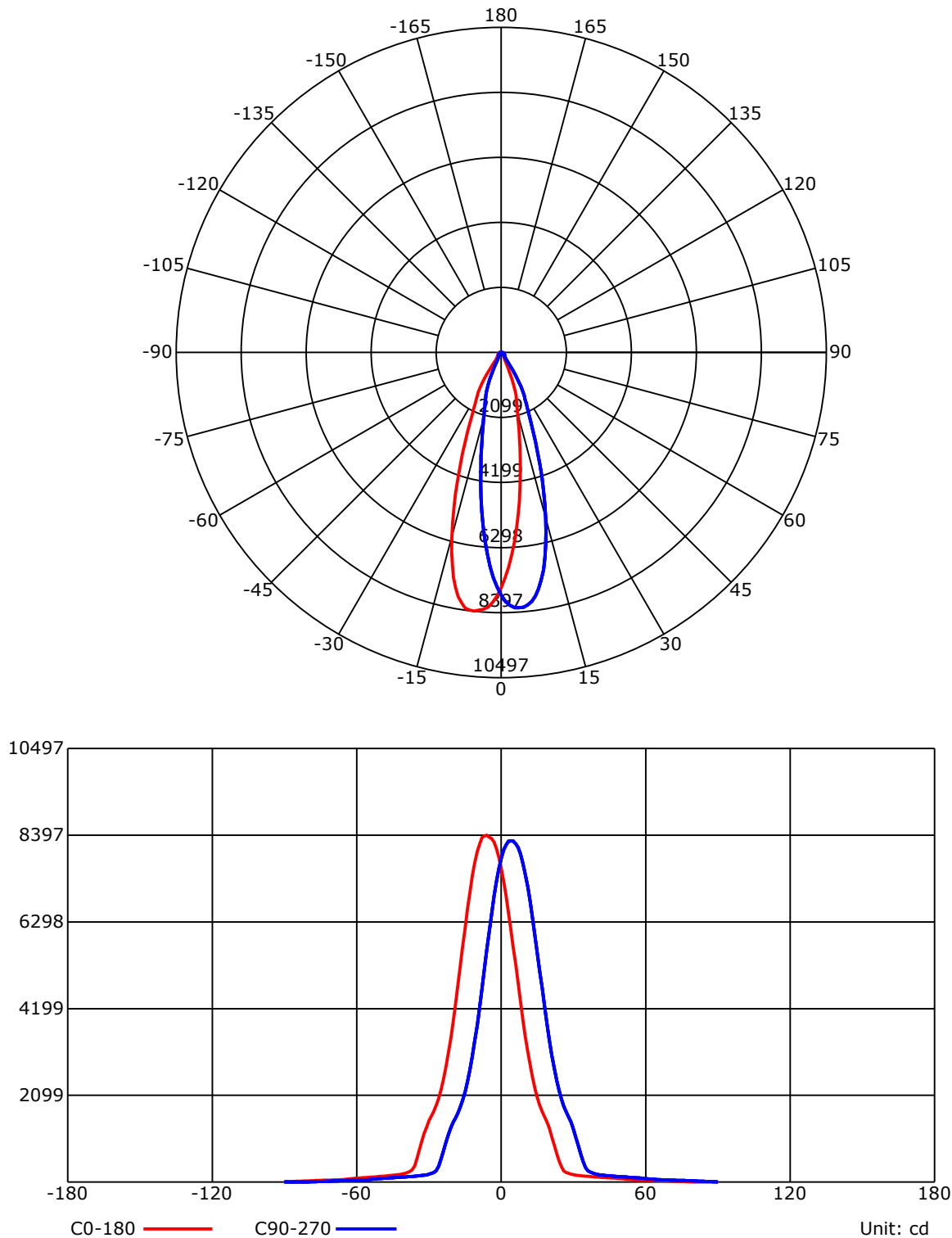
Beam Angle(50%) C0-180,C90-270: 27.6 deg,27.5 deg

C0-180 — C90-270 —

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/4/30 17:23:23

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

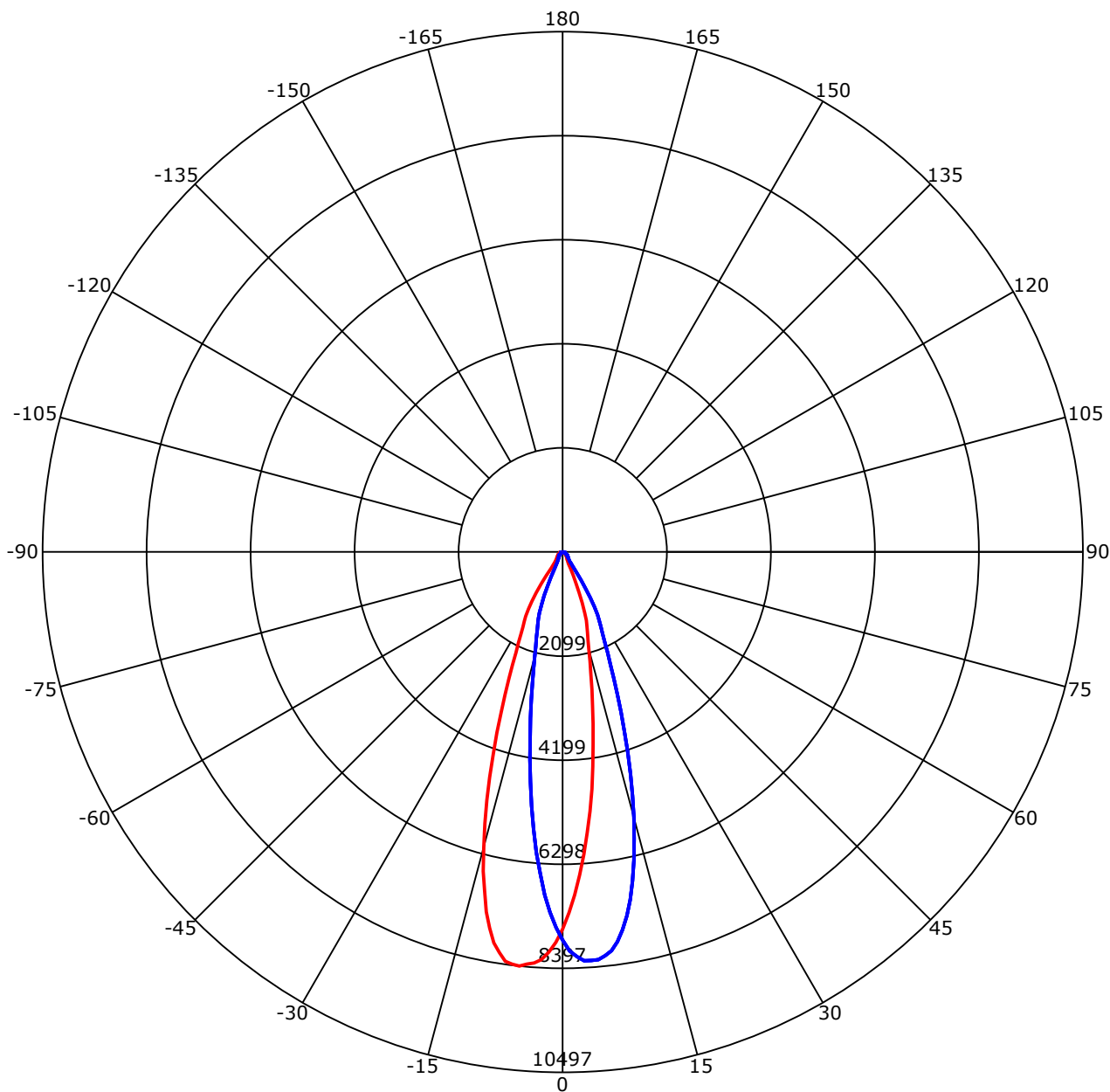
Luminous Intensity Distribution Curve



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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

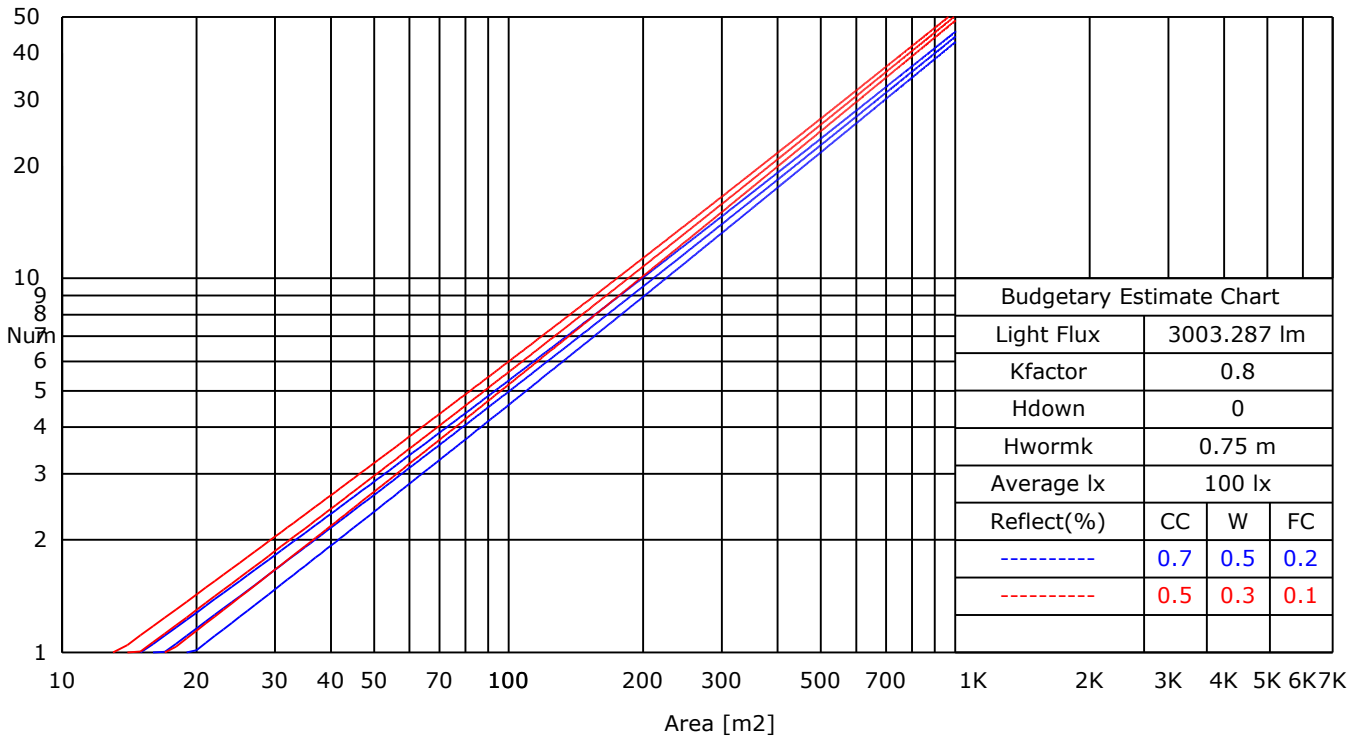
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Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/4/30 17:23:23

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G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

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	0.96	0.94	0.91	0.95	0.92	0.90	0.92	0.89	0.86	0.88	0.85	0.82	0.82	0.79	0.76	0.71
2	0.91	0.89	0.87	0.91	0.88	0.86	0.88	0.85	0.82	0.85	0.81	0.78	0.80	0.76	0.73	0.68
3	0.88	0.85	0.84	0.87	0.84	0.82	0.85	0.81	0.79	0.82	0.78	0.75	0.78	0.73	0.70	0.66
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	0.67	0.63
5	0.81	0.79	0.78	0.81	0.78	0.77	0.79	0.75	0.73	0.76	0.72	0.69	0.73	0.69	0.65	0.61
6	0.79	0.77	0.76	0.78	0.76	0.74	0.76	0.73	0.71	0.74	0.70	0.67	0.71	0.67	0.63	0.60
7	0.76	0.75	0.74	0.76	0.74	0.72	0.74	0.71	0.69	0.72	0.68	0.65	0.70	0.65	0.61	0.58
8	0.74	0.73	0.72	0.74	0.72	0.70	0.72	0.69	0.67	0.70	0.66	0.63	0.68	0.63	0.60	0.56
9	0.72	0.71	0.70	0.72	0.70	0.69	0.70	0.67	0.65	0.68	0.65	0.62	0.66	0.62	0.58	0.55
10	0.71	0.69	0.69	0.70	0.68	0.67	0.69	0.66	0.64	0.67	0.63	0.60	0.65	0.60	0.57	0.54

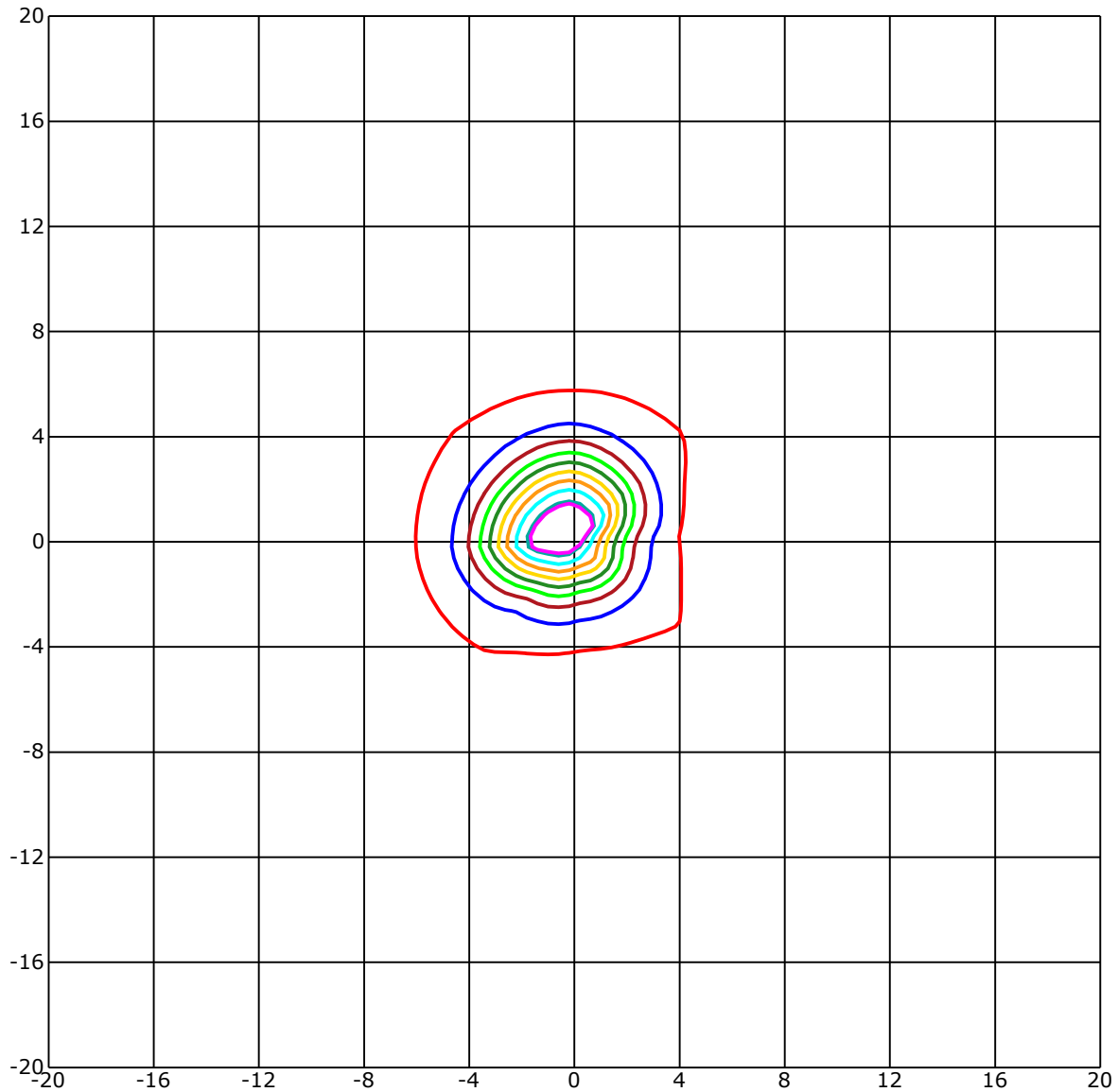
LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



C Range: 0 - 360 Deg
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G Range: 0 - 90 Deg
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Humidity: 60
Test Distance: 6.7 m
Remarks:

ISOLX DIAGRAM

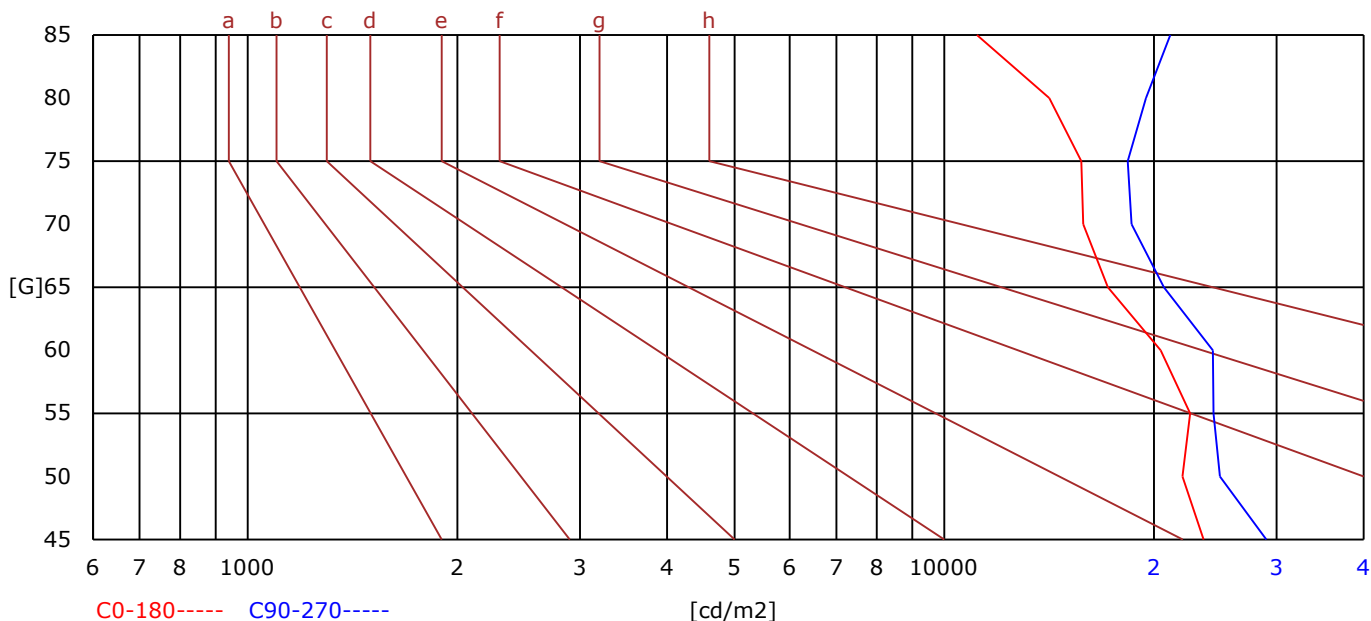


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Temperature: 25
Operators: QC01
Test Date: 2024/4/30 17:23:23

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Remarks:

BRIGHT LIMIT DIAGRAM

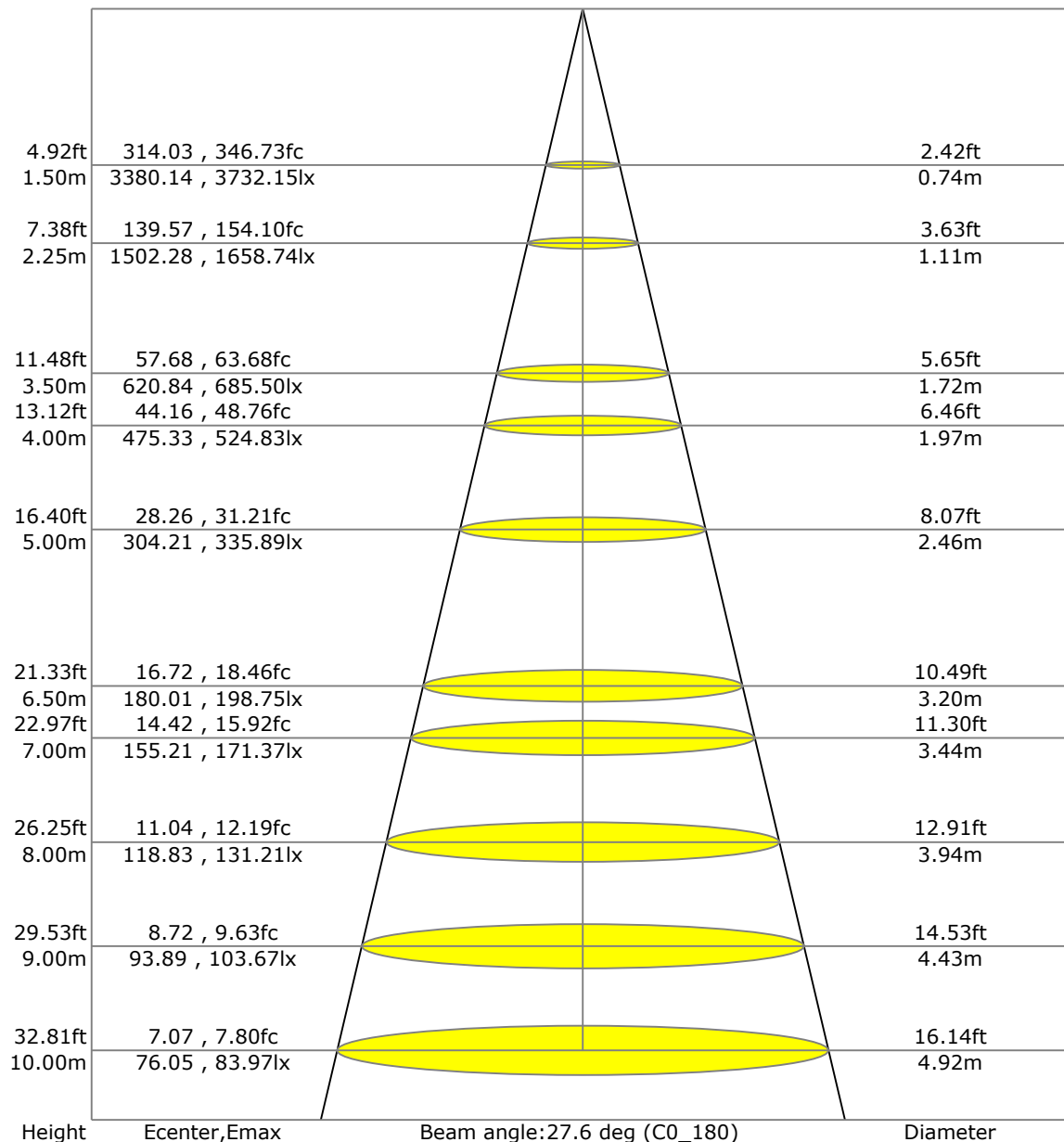
C/G	45	50	55	60	65	70	75	80	85
C0	23570	21973	22539	20442	17177	15829	15735	14156	11142
C90	28978	24871	24338	24302	20666	18562	18338	19469	21101
Dazzle	Quality	Illuminance	---	---	---	---	---	---	---
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
---	---	a	b	c	d	e	f	g	h



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Remarks:

LX-DISTANCE DIAGRAM



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G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.7 m

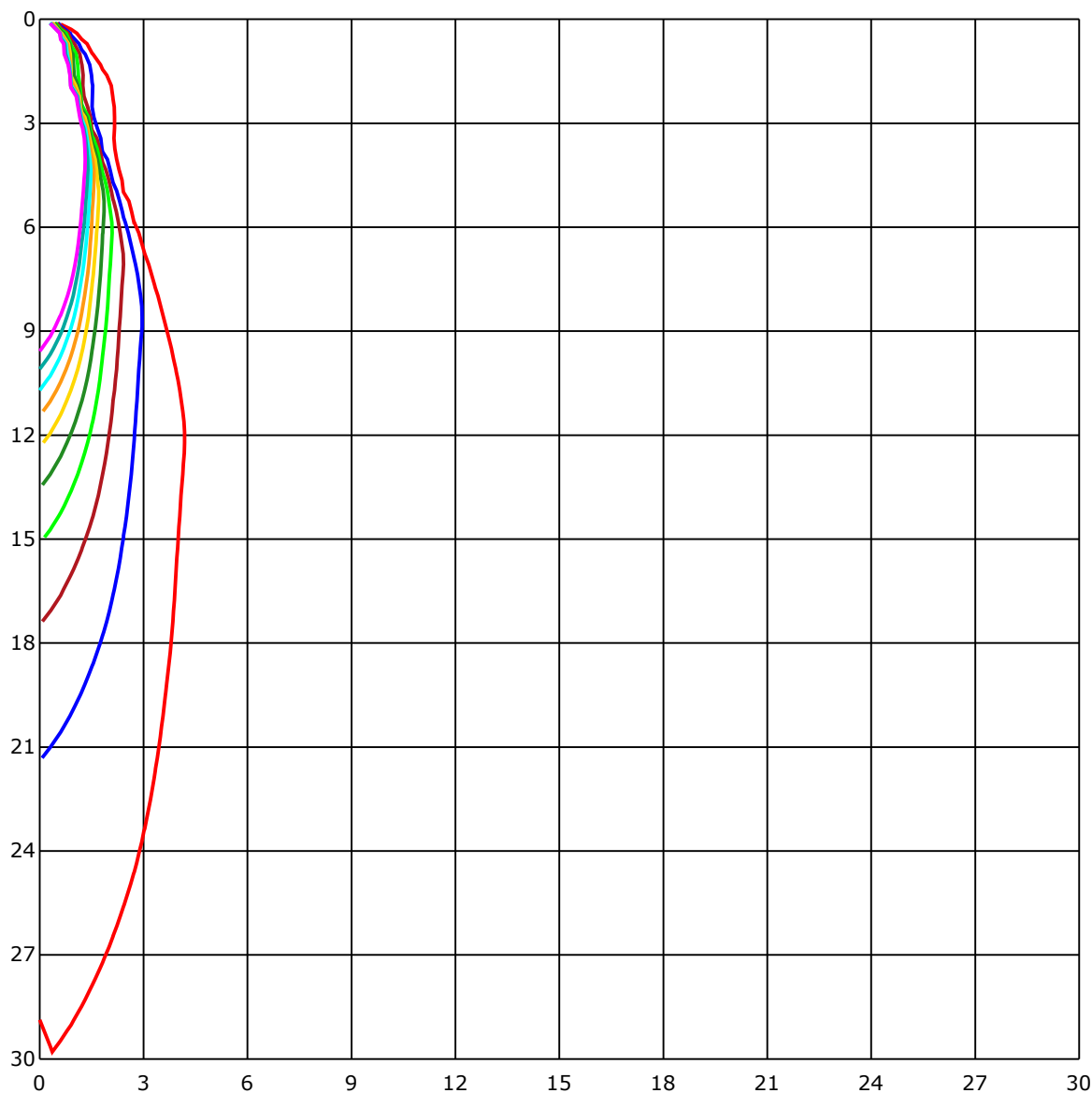
Remarks:

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	14.19	14.25	14.39	14.44	14.68	14.44	14.50	14.64	14.69	14.93
3H	14.21	14.27	14.42	14.46	14.71	14.45	14.51	14.66	14.70	14.94
4H	14.21	14.27	14.42	14.47	14.71	14.44	14.50	14.65	14.69	14.94
6H	14.20	14.26	14.42	14.46	14.71	14.42	14.48	14.64	14.68	14.93
8H	14.19	14.25	14.41	14.45	14.70	14.41	14.47	14.63	14.67	14.93
12H	14.18	14.24	14.40	14.44	14.70	14.40	14.46	14.63	14.67	14.92
4H 2H	14.56	14.61	14.77	14.81	15.06	15.13	15.19	15.34	15.38	15.63
3H	14.66	14.72	14.88	14.93	15.18	15.23	15.28	15.45	15.49	15.74
4H	14.69	14.75	14.92	14.96	15.22	15.24	15.29	15.47	15.51	15.77
6H	14.69	14.75	14.93	14.97	15.24	15.22	15.28	15.46	15.50	15.77
8H	14.69	14.74	14.93	14.97	15.24	15.21	15.27	15.46	15.49	15.76
12H	14.68	14.73	14.93	14.96	15.23	15.20	15.25	15.45	15.48	15.75
8H 4H	14.58	14.63	14.80	14.84	15.09	15.45	15.51	15.67	15.71	15.96
6H	14.79	14.84	15.04	15.08	15.35	15.71	15.76	15.96	16.00	16.27
8H	14.79	14.84	15.05	15.09	15.36	15.70	15.75	15.96	15.99	16.27
12H	14.79	14.83	15.06	15.09	15.37	15.68	15.73	15.95	15.99	16.27
12H 4H	14.75	14.80	15.00	15.03	15.30	15.84	15.89	16.08	16.12	16.39
6H	14.78	14.83	15.04	15.08	15.35	15.88	15.93	16.14	16.17	16.45

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Humidity: 60
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Remarks:

SPACE ISOLX DIAGRAM



Unit of illumination:lx

82.993
74.694
66.394
58.095
49.796

41.497
33.197
24.898
16.599
8.299

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Humidity: 60
Test Distance: 6.7 m
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	7605.31	8322.16	7829.58	7932.2	7605.31	8322.16	7829.58	7932.2	7605.31	
G1	7272.67	8325.57	8047.97	8119.52	7871.87	8244.36	7581.56	7683.69	7272.67	
G2	6925.23	8300.3	8164.82	8257.78	8074.5	8085.45	7274.07	7348.94	6925.23	
G3	6521.3	8229.06	8254.15	8303.35	8231.48	7886.5	6927.07	7020.21	6521.3	
G4	6118.37	8122.98	8256.62	8318.48	8312.46	7621.6	6500.34	6635.01	6118.37	
G5	5682.72	7982.52	8255.72	8297.65	8345.72	7303.06	6082.6	6228.85	5682.72	
G6	5261.78	7760.13	8190.41	8283.37	8397.35	6897.75	5615.51	5810.16	5261.78	
G7	4816.65	7532.77	8100.09	8208.27	8377.24	6477.63	5157.55	5358.47	4816.65	
G8	4367.35	7205.83	7939.07	8069.88	8338.32	6028.46	4684.99	4900.55	4367.35	
G9	3929.85	6860.54	7716.59	7825.81	8181.29	5565.96	4236.22	4451.47	3929.85	
G10	3522.52	6482.07	7450.21	7561.27	8004.07	5118.31	3795.49	3989.64	3522.52	
G11	3151.59	6072.76	7143.12	7225.72	7728.13	4642.66	3413.89	3581.55	3151.59	
G12	2835.16	5623.37	6782.7	6867.18	7417.17	4208.17	3048.7	3209.9	2835.16	
G13	2528.74	5194.63	6382.33	6470.67	7015.95	3770.94	2726.93	2864.88	2528.74	
G14	2270.36	4751.34	5961.21	6026.35	6633.75	3383.31	2444.84	2568.83	2270.36	
G15	2047.75	4324.21	5538.71	5599.71	6161.51	3025.86	2191.04	2308.24	2047.75	
G16	1860.56	3901.84	5109.96	5141.97	5697.66	2701.84	1980.68	2080.83	1860.56	
G17	1701.87	3503.71	4685.89	4658.1	5232.6	2428.19	1819.53	1897.68	1701.87	
G18	1574.43	3138.93	4245.88	4200.54	4775.85	2189.24	1673.45	1755.33	1574.43	
G19	1456.77	2818.15	3826.02	3771.88	4308.95	1998.91	1551.4	1645.89	1456.77	
G20	1303.38	2521.83	3437.36	3380.13	3877.6	1840.18	1446.31	1558.99	1303.38	
G21	1099.67	2266.81	3080.98	3017.24	3472.78	1711.75	1313.89	1491.61	1099.67	
G22	887.48	2050.13	2749.56	2708.57	3105.98	1610.7	1138.59	1430.6	887.48	
G23	692.2	1881.16	2464.46	2433.35	2775.28	1535.33	953.69	1372.92	692.2	
G24	517.0	1740.25	2223.13	2196.51	2487.67	1458.25	755.45	1326.19	517.0	
G25	376.13	1629.87	2014.98	1992.35	2241.54	1399.18	564.04	1286.64	376.13	
G26	269.47	1545.97	1837.3	1827.16	2034.46	1342.12	390.72	1236.45	269.47	
G27	230.73	1481.73	1692.89	1701.56	1857.23	1295.39	274.46	1158.39	230.73	
G28	208.65	1411.97	1569.71	1603.2	1715.79	1244.31	233.16	1072.29	208.65	
G29	192.49	1354.56	1448.91	1523.03	1599.52	1174.95	210.22	954.94	192.49	
G30	177.94	1297.55	1277.79	1456.55	1495.96	1089.12	191.05	808.29	177.94	
G31	167.75	1248.62	1078.89	1402.14	1336.47	983.36	175.92	628.95	167.75	
G32	159.54	1203.1	869.92	1346.21	1173.78	876.93	165.24	457.2	159.54	
G33	152.72	1132.8	676.67	1293.33	984.53	756.62	158.06	307.59	152.72	
G34	148.72	1013.98	498.46	1245.7	782.39	593.27	151.64	218.08	148.72	
G35	142.53	861.08	350.64	1196.54	574.14	419.86	146.61	183.78	142.53	
G36	138.22	694.9	272.08	1129.12	391.89	278.63	141.49	167.04	138.22	

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Test Distance: 6.7 m
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	133.1	524.76	241.55	1027.17	294.52	208.33	137.72	155.45	133.1	
G38	130.05	386.64	219.24	894.75	258.25	182.21	132.78	147.24	130.05	
G39	124.44	284.38	199.67	721.92	233.29	168.2	127.94	142.26	124.44	
G40	121.7	193.75	186.02	539.17	213.45	156.08	123.58	134.98	121.7	
G41	116.71	156.13	175.88	381.52	198.28	146.52	120.71	129.64	116.71	
G42	112.76	143.92	171.21	258.75	188.9	140.37	116.58	126.37	112.76	
G43	108.77	135.61	163.18	182.61	180.14	135.34	112.99	121.56	108.77	
G44	106.3	126.9	156.49	163.04	173.37	130.81	110.16	119.18	106.3	
G45	102.08	123.27	151.19	151.55	166.05	127.85	105.85	115.86	102.08	
G46	99.03	117.75	145.76	140.1	161.69	121.38	102.48	113.84	99.03	
G47	95.26	116.27	142.03	132.61	154.69	118.78	99.57	110.92	95.26	
G48	92.52	110.25	137.09	128.07	148.95	115.55	96.15	109.49	92.52	
G49	87.31	107.74	132.52	122.33	143.56	114.83	92.29	106.16	87.31	
G50	82.1	104.46	127.89	118.24	138.93	111.06	87.13	103.65	82.1	
G51	75.06	103.29	125.74	114.69	133.86	108.63	81.88	98.71	75.06	
G52	68.28	100.19	120.84	112.36	129.55	105.22	74.47	93.91	68.28	
G53	63.25	99.34	116.8	108.23	124.75	102.62	68.37	88.3	63.25	
G54	58.54	98.08	112.54	106.16	121.7	96.51	63.88	83.5	58.54	
G55	54.45	95.62	108.32	103.25	116.18	92.34	58.99	77.88	54.45	
G56	52.75	92.02	105.45	102.08	112.31	85.52	53.19	73.17	52.75	
G57	48.48	89.6	100.87	99.84	108.1	79.55	51.49	68.28	48.48	
G58	47.04	84.57	96.6	97.41	105.54	74.38	48.44	65.94	47.04	
G59	45.2	80.67	93.01	93.55	98.67	70.79	46.37	61.23	45.2	
G60	44.17	75.59	86.01	89.87	94.27	66.21	44.08	57.73	44.17	
G61	41.79	69.8	80.8	84.66	88.39	62.62	43.23	54.05	41.79	
G62	41.16	67.2	74.47	79.19	82.33	58.76	41.97	51.8	41.16	
G63	38.34	61.5	70.12	73.89	75.73	54.99	40.04	47.54	38.34	
G64	37.03	59.21	63.88	69.89	71.38	52.16	37.57	45.88	37.03	
G65	34.48	53.69	60.69	64.6	64.19	48.57	36.36	43.36	34.48	
G66	32.23	50.1	56.43	61.05	60.56	46.46	33.53	41.39	32.23	
G67	30.26	47.99	54.0	57.23	57.19	45.16	32.23	38.16	30.26	
G68	29.67	45.2	51.58	53.15	55.04	42.87	29.58	36.63	29.67	
G69	26.53	42.83	50.95	49.02	51.49	39.59	28.1	33.8	26.53	
G70	24.24	40.04	48.62	46.95	49.83	37.39	24.96	31.6	24.24	
G71	22.53	37.66	46.78	43.14	48.62	34.43	23.84	29.81	22.53	
G72	20.56	36.81	44.89	42.15	47.31	32.1	21.01	27.43	20.56	
G73	18.54	33.89	42.56	39.68	45.25	30.48	19.08	25.9	18.54	

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