

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

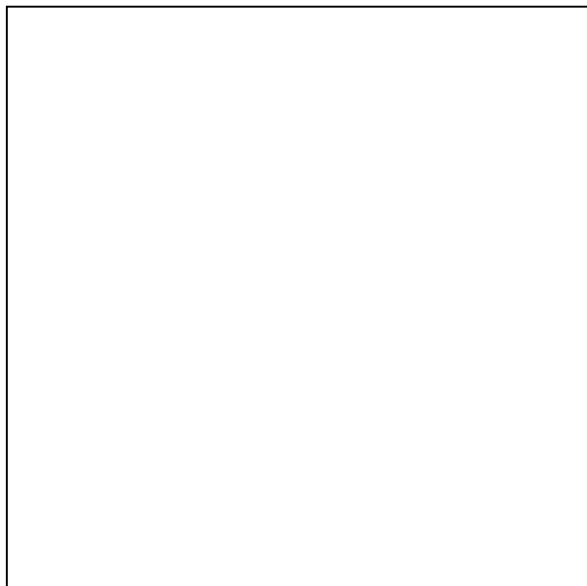
Voltage(V): 219.80 V
Current(A): 0.1370 A
Power(W): 28.63 W
Power Factor: 0.9490
Lamp Luminous Flux: 3054.15

Photometric Results

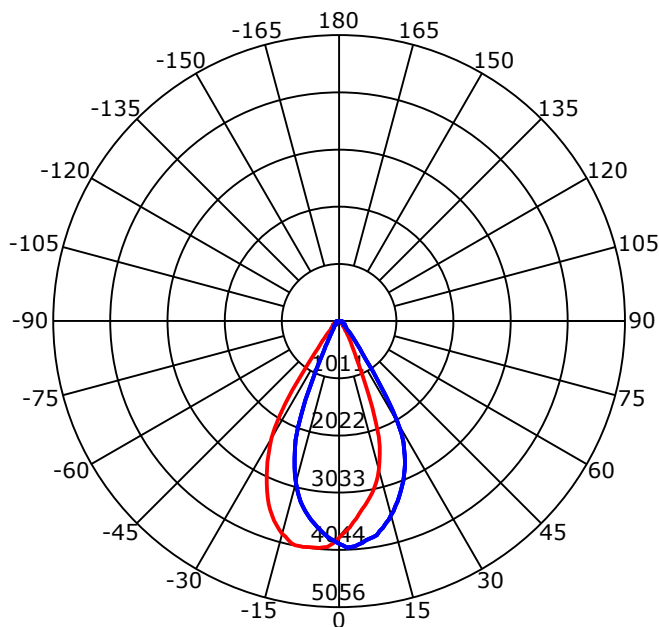
CIE Class: Direct
Luminaire Luminous Flux: 3054.147 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 106.68 lm/W
Beam Angle(50%) C0-180,C90-270: 51.4,51.4
Field Angle(10%) C0-180,C90-270: 70.1,69.7
S/MH C0-180,C90-270: 0.808,0.808

Max. Intensity: 4044.41 cd
Max.Intensity Angle: C=180 Gamma=9
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 3831.00 cd
Effective Luminous Flux: 2676.82 lm
ERP(ϕ use)(120deg): 2939.41 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



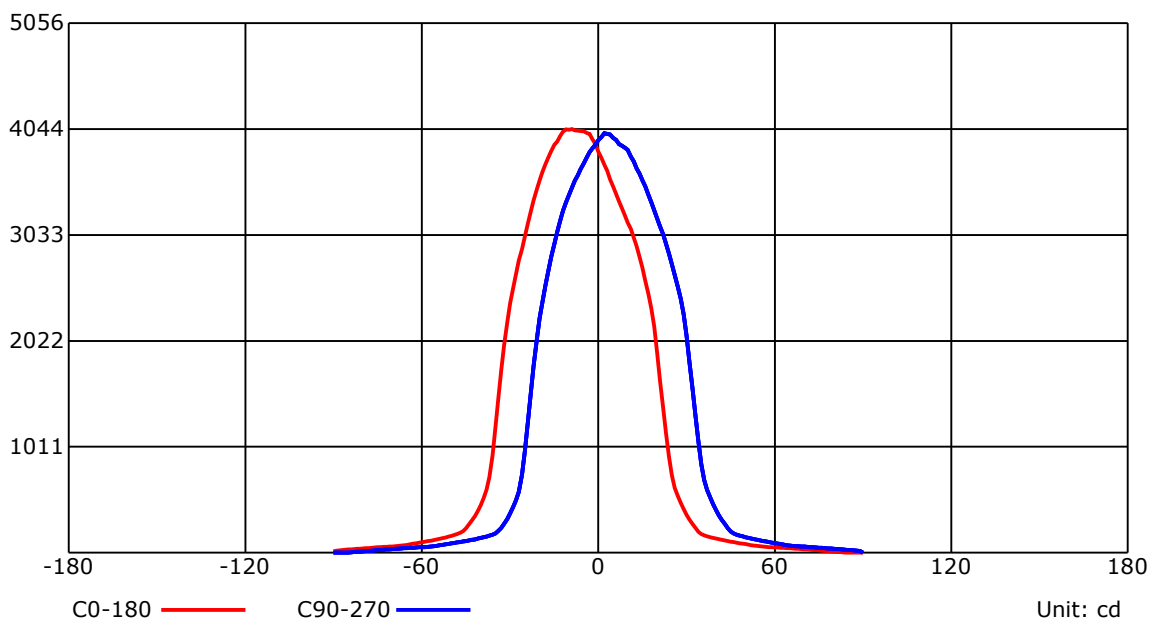
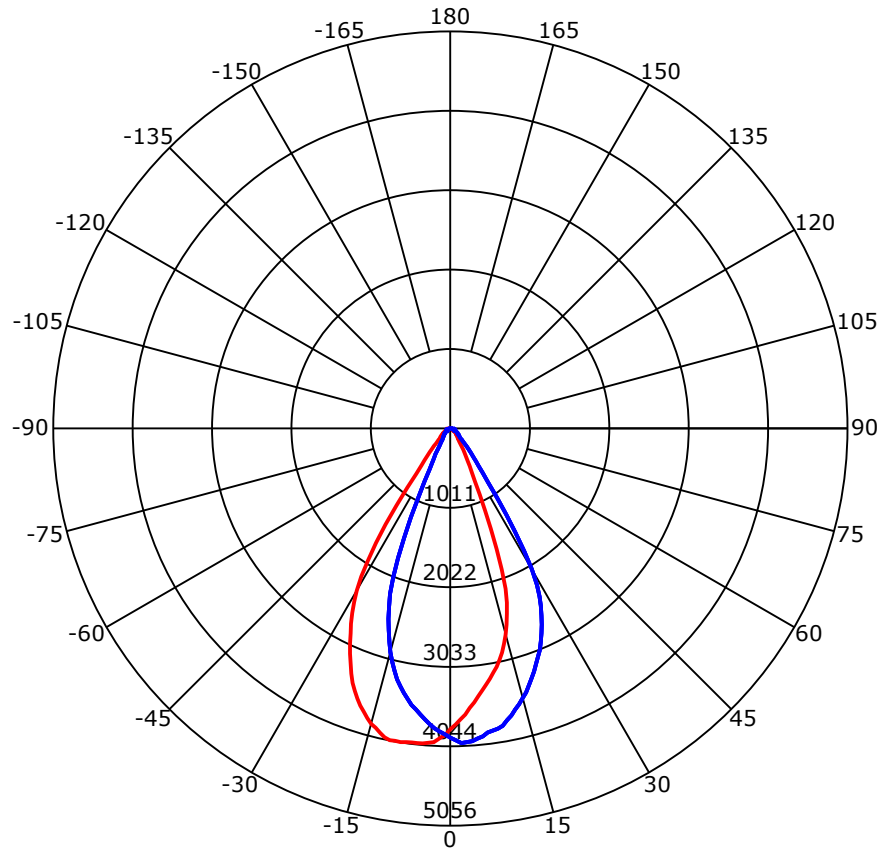
Beam Angle(50%) C0-180,C90-270: 51.4 deg,51.4 deg

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 16:59:10

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

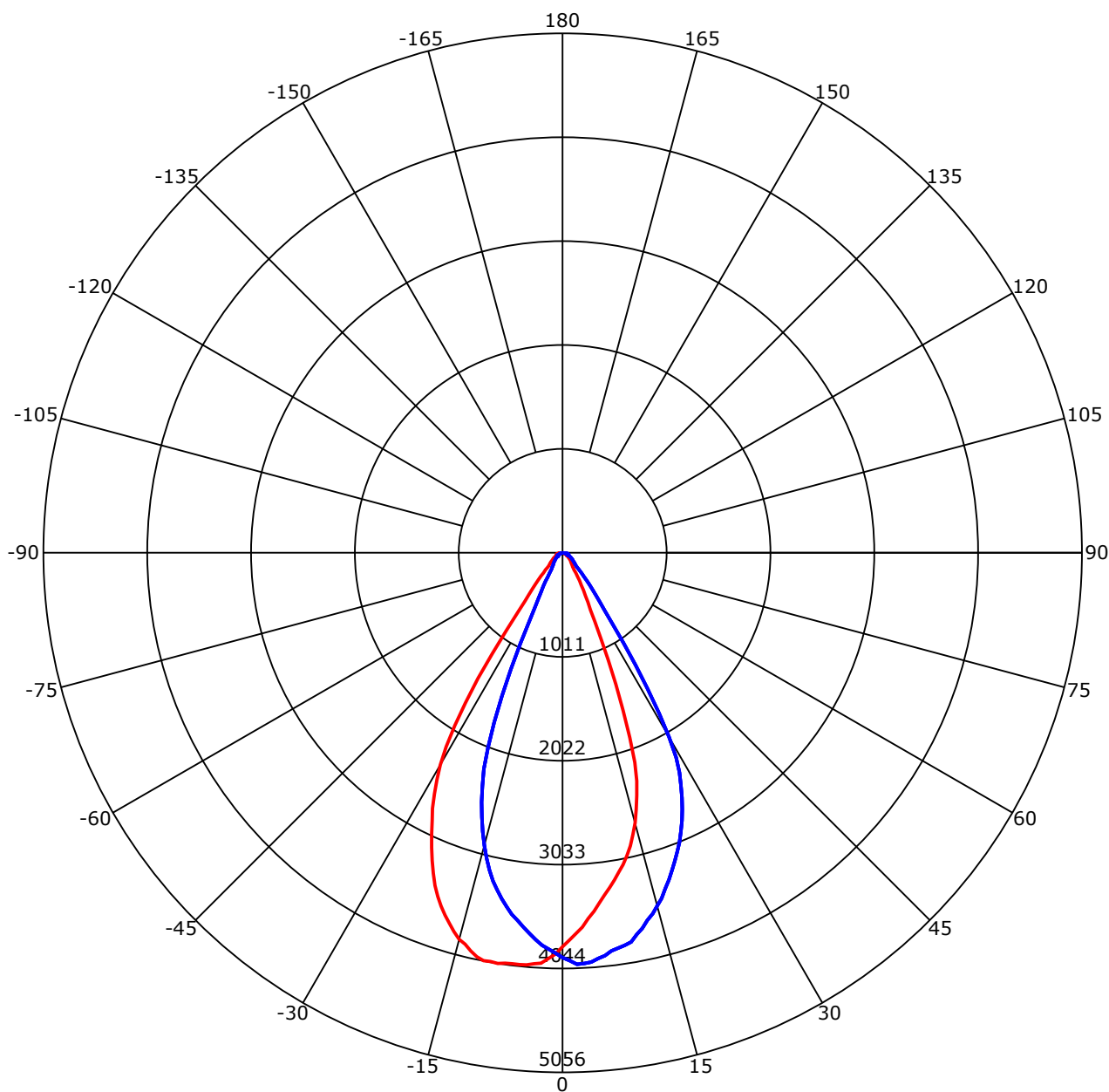
Luminous Intensity Distribution Curve



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Remarks:

Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

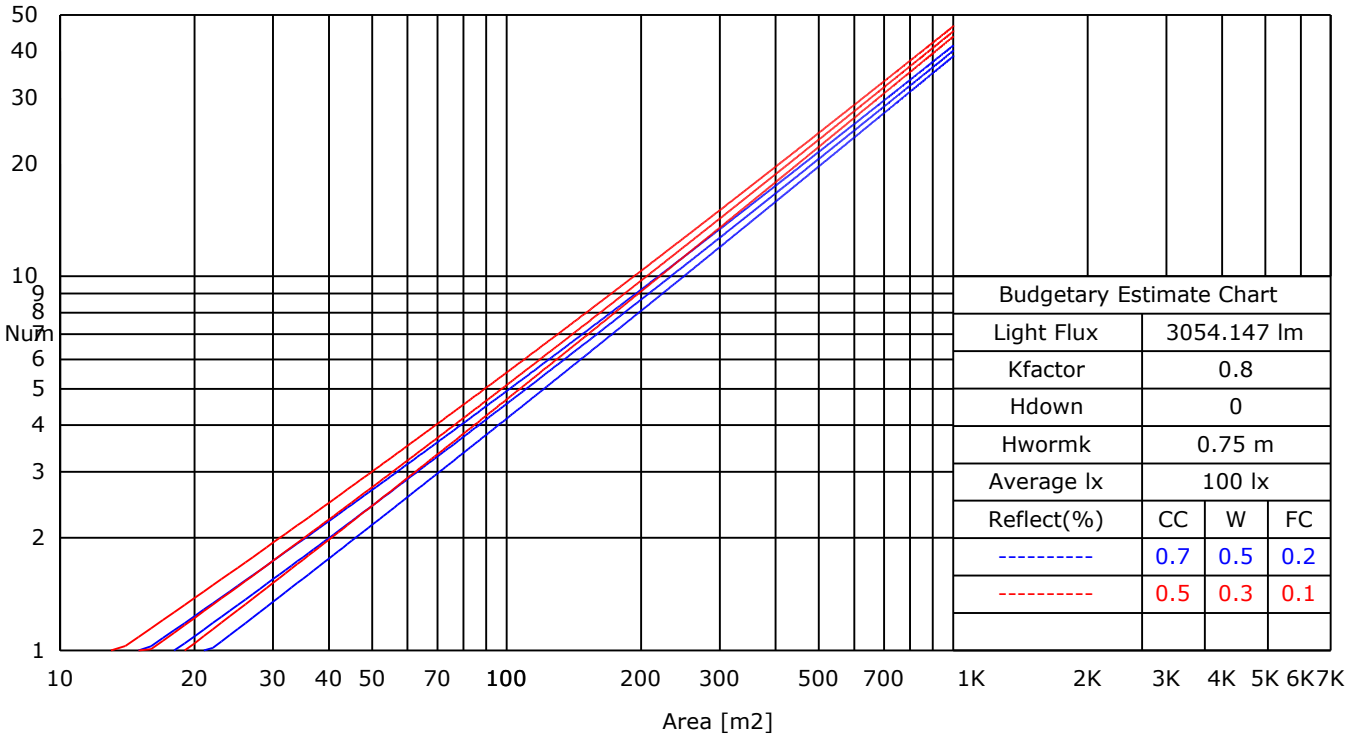
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/4/30 16:59:10

G Range: 0 - 90 Deg
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	COEFFICIENTS 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	1.05	1.03	1.02	1.03	1.01	1.00	1.00	0.98	0.96	0.95	0.93	0.91	0.89	0.86	0.84	0.79
2	0.99	0.98	0.96	0.98	0.96	0.94	0.95	0.93	0.90	0.91	0.88	0.86	0.86	0.83	0.80	0.75
3	0.95	0.93	0.92	0.94	0.92	0.90	0.91	0.88	0.86	0.87	0.84	0.81	0.83	0.79	0.76	0.72
4	0.91	0.89	0.88	0.90	0.88	0.86	0.87	0.84	0.82	0.84	0.81	0.78	0.80	0.76	0.73	0.69
5	0.87	0.85	0.84	0.86	0.84	0.83	0.84	0.81	0.79	0.81	0.77	0.75	0.77	0.73	0.70	0.66
6	0.84	0.82	0.81	0.83	0.81	0.79	0.81	0.78	0.76	0.78	0.75	0.72	0.75	0.71	0.68	0.64
7	0.81	0.79	0.79	0.80	0.78	0.77	0.78	0.75	0.73	0.76	0.72	0.69	0.73	0.69	0.65	0.62
8	0.78	0.77	0.76	0.77	0.75	0.74	0.75	0.73	0.71	0.73	0.70	0.67	0.71	0.66	0.63	0.60
9	0.76	0.74	0.74	0.75	0.73	0.72	0.73	0.70	0.68	0.71	0.67	0.65	0.69	0.64	0.61	0.58
10	0.74	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

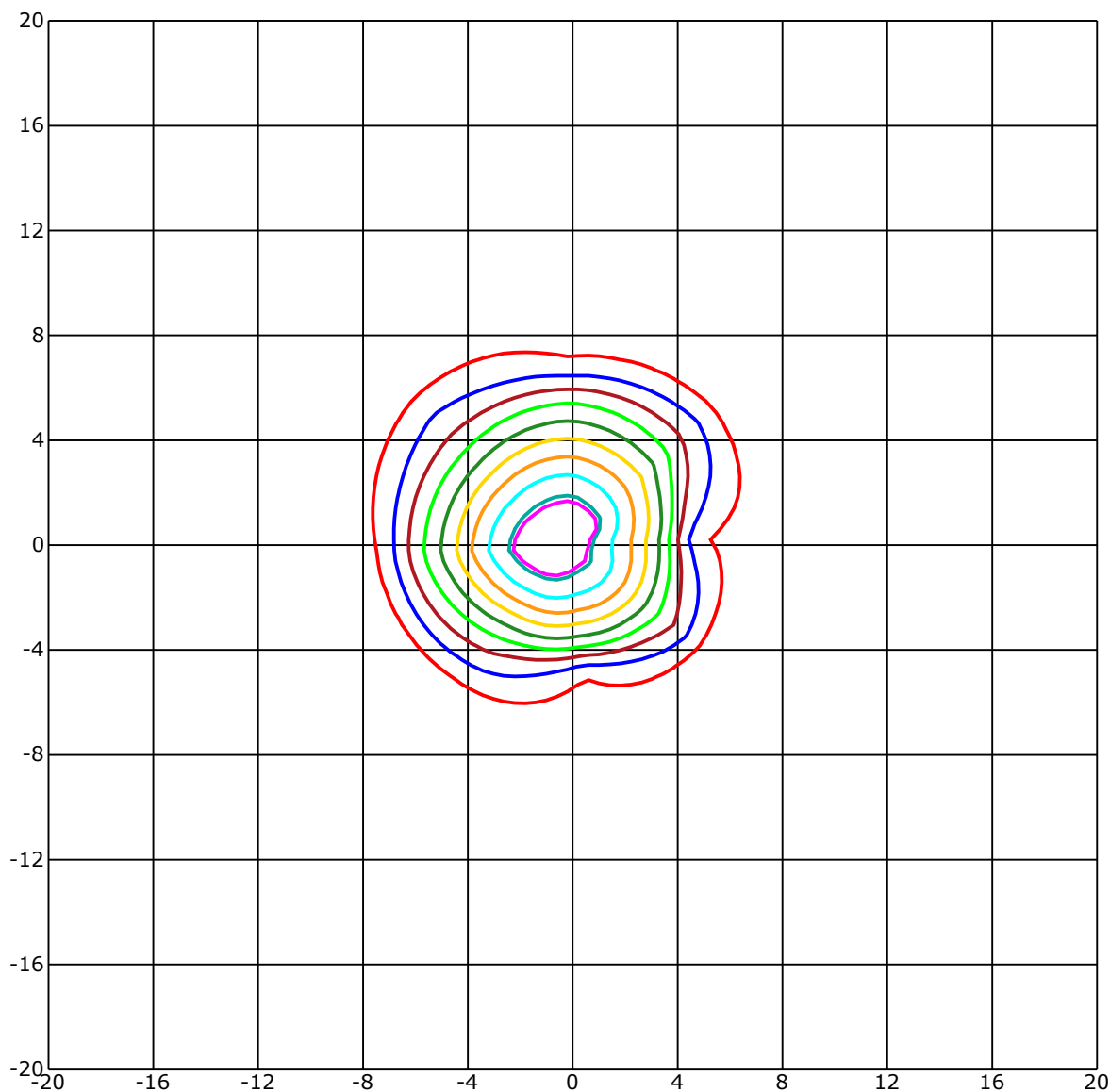
LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/4/30 16:59:10

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

ISOLX DIAGRAM



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

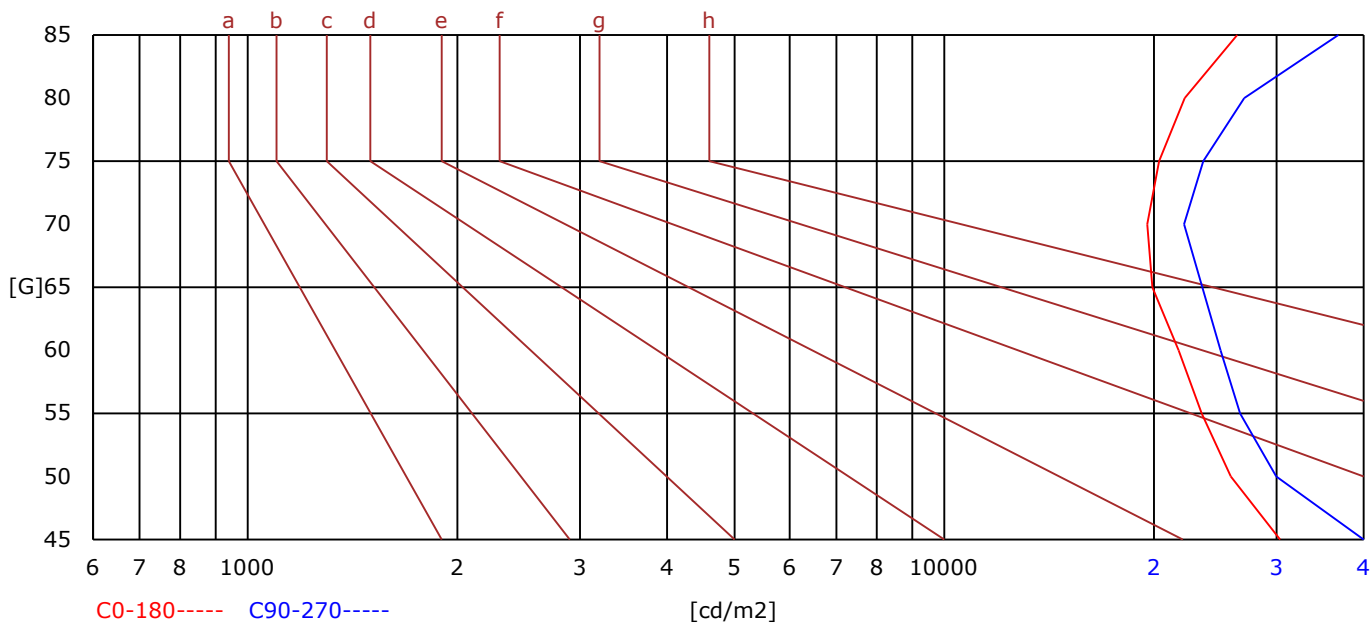
37.009(92%Emax)	20.114(50%Emax)
36.205(90%Emax)	16.091(40%Emax)
32.182(80%Emax)	12.068(30%Emax)
28.159(70%Emax)	8.045(20%Emax)
24.136(60%Emax)	4.023(10%Emax)

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Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/4/30 16:59:10

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Test Distance: 6.7 m
Remarks:

BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	30343	25768	23407	21692	19891	19556	20332	22125	26324
C90	41021	29970	26592	24933	23453	22094	23545	26949	36770
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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Humidity: 60
Test Distance: 6.7 m
Remarks:

Height	Ecenter,Emax	Beam angle:51.4 deg (C0_180)	Diameter
4.92ft 1.50m	158.18 , 166.99fc 1702.67 , 1797.52lx		4.73ft 1.44m
7.38ft 2.25m	70.30 , 74.22fc 756.74 , 798.90lx		7.10ft 2.16m
11.48ft 3.50m	29.05 , 30.67fc 312.73 , 330.16lx		11.04ft 3.37m
13.12ft 4.00m	22.24 , 23.48fc 239.44 , 252.78lx		12.62ft 3.85m
16.40ft 5.00m	14.24 , 15.03fc 153.24 , 161.78lx		15.78ft 4.81m
21.33ft 6.50m	8.42 , 8.89fc 90.67 , 95.73lx		20.51ft 6.25m
22.97ft 7.00m	7.26 , 7.67fc 78.18 , 82.54lx		22.09ft 6.73m
26.25ft 8.00m	5.56 , 5.87fc 59.86 , 63.19lx		25.24ft 7.69m
29.53ft 9.00m	4.39 , 4.64fc 47.30 , 49.93lx		28.40ft 8.66m
32.81ft 10.00m	3.56 , 3.76fc 38.31 , 40.44lx		31.55ft 9.62m

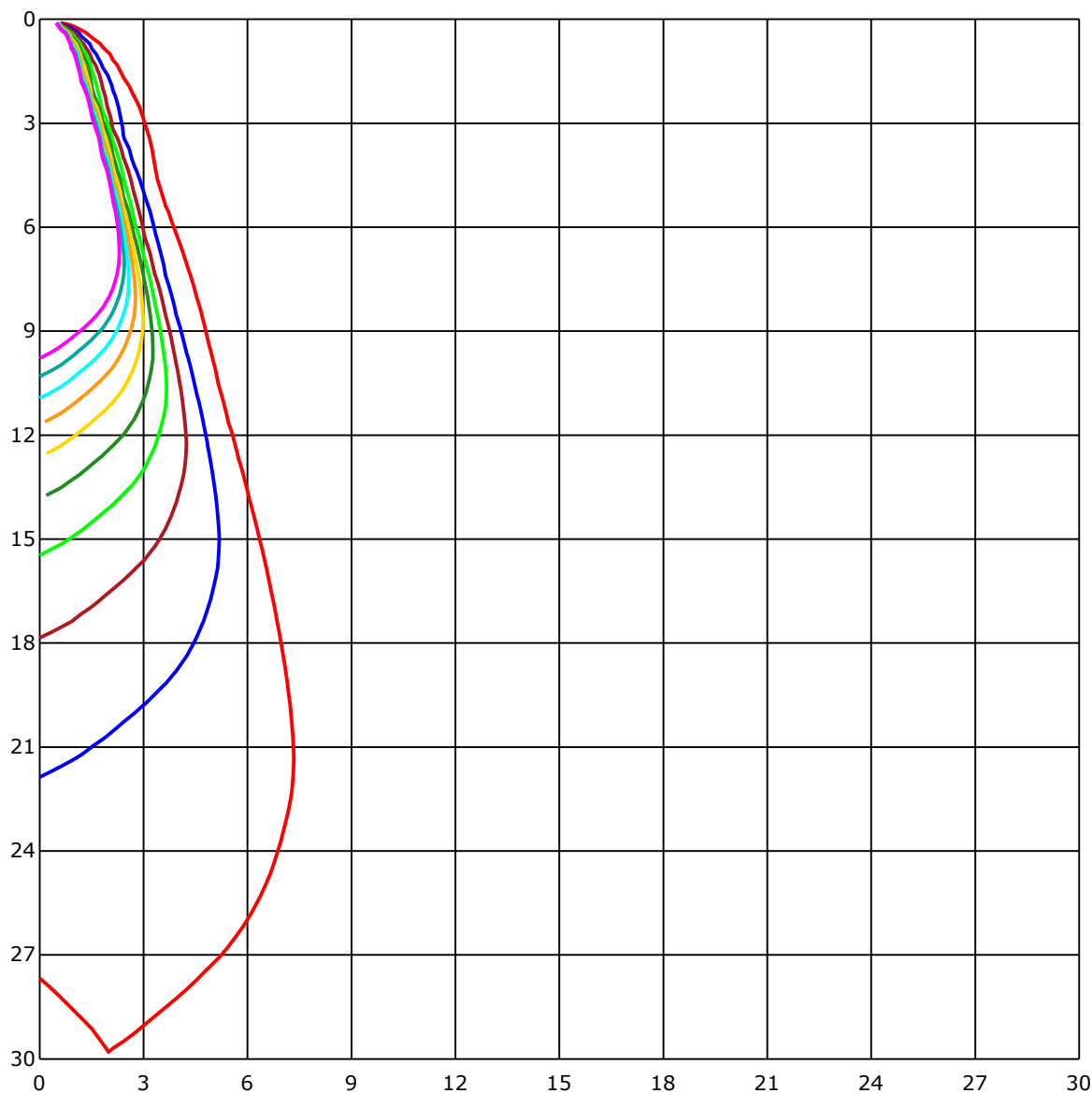
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

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	15.87	15.92	16.07	16.11	16.35	16.06	16.11	16.25	16.29	16.54
3H	15.88	15.93	16.09	16.13	16.37	16.05	16.11	16.26	16.30	16.55
4H	15.87	15.93	16.09	16.12	16.37	16.04	16.10	16.25	16.29	16.54
6H	15.86	15.91	16.08	16.11	16.37	16.03	16.08	16.24	16.28	16.53
8H	15.85	15.90	16.07	16.11	16.36	16.02	16.07	16.24	16.27	16.53
12H	15.84	15.89	16.06	16.10	16.35	16.01	16.06	16.23	16.27	16.52
4H 2H	16.20	16.25	16.41	16.45	16.70	16.65	16.70	16.86	16.90	17.14
3H	16.30	16.35	16.52	16.56	16.81	16.74	16.79	16.96	17.00	17.25
4H	16.33	16.38	16.56	16.59	16.85	16.76	16.81	16.98	17.02	17.28
6H	16.34	16.39	16.57	16.61	16.87	16.75	16.80	16.98	17.02	17.28
8H	16.33	16.38	16.58	16.61	16.87	16.74	16.79	16.98	17.01	17.28
12H	16.32	16.37	16.57	16.60	16.87	16.72	16.77	16.97	17.00	17.27
8H 4H	16.26	16.31	16.48	16.52	16.77	17.00	17.06	17.22	17.26	17.51
6H	16.54	16.58	16.79	16.82	17.09	17.34	17.38	17.59	17.62	17.89
8H	16.56	16.60	16.82	16.84	17.12	17.34	17.38	17.60	17.63	17.90
12H	16.57	16.61	16.83	16.86	17.14	17.33	17.37	17.60	17.62	17.91
12H 4H	16.48	16.53	16.73	16.76	17.03	17.52	17.57	17.77	17.80	18.07
6H	16.55	16.60	16.82	16.84	17.12	17.61	17.66	17.88	17.90	18.18

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

SPACE ISOLX DIAGRAM



Unit of illumination:lx

40.07	20.035
36.063	16.028
32.056	12.021
28.049	8.014
24.042	4.007

C Range: 0 - 360 Deg
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Test Speed: High
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Operators: QC01
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	3831.0	4022.73	3936.94	3929.31	3831.0	4022.73	3936.94	3929.31	3831.0	
G1	3768.83	4016.67	3968.32	3981.16	3902.51	4023.36	3895.6	3878.18	3768.83	
G2	3705.58	4009.26	4006.07	3999.3	3948.17	4005.27	3860.32	3833.61	3705.58	
G3	3647.36	3979.81	4000.28	4001.9	3998.89	3985.11	3823.37	3791.54	3647.36	
G4	3565.52	3949.78	3991.57	3997.05	4008.77	3966.57	3773.05	3732.83	3565.52	
G5	3500.25	3919.26	3961.32	3962.22	4024.43	3947.58	3717.03	3674.79	3500.25	
G6	3424.97	3880.43	3939.64	3929.76	4026.99	3932.9	3663.2	3612.7	3424.97	
G7	3352.92	3813.54	3901.39	3909.61	4027.93	3887.74	3602.47	3558.97	3352.92	
G8	3288.55	3750.16	3884.96	3898.29	4031.75	3842.81	3553.04	3494.78	3288.55	
G9	3223.55	3682.1	3867.63	3896.23	4044.41	3785.44	3486.47	3432.96	3223.55	
G10	3151.41	3622.4	3844.56	3883.25	4038.98	3727.53	3417.7	3356.02	3151.41	
G11	3089.91	3573.87	3781.89	3869.07	4041.99	3662.67	3341.84	3286.67	3089.91	
G12	3009.52	3499.18	3735.66	3831.32	4018.91	3590.89	3265.43	3217.76	3009.52	
G13	2925.17	3426.41	3669.31	3770.04	3976.13	3503.35	3167.12	3144.63	2925.17	
G14	2826.01	3368.41	3619.39	3711.37	3925.0	3409.71	3063.07	3046.24	2826.01	
G15	2720.07	3287.92	3556.5	3652.61	3893.85	3315.71	2947.97	2948.69	2720.07	
G16	2596.75	3214.66	3497.78	3588.69	3834.5	3207.44	2821.29	2838.53	2596.75	
G17	2466.21	3145.08	3416.49	3523.06	3771.75	3096.6	2688.15	2726.62	2466.21	
G18	2331.23	3079.63	3345.74	3432.07	3708.09	2984.02	2549.89	2609.1	2331.23	
G19	2157.41	3003.1	3269.2	3362.13	3637.89	2850.07	2398.2	2496.38	2157.41	
G20	1911.51	2934.64	3192.49	3274.23	3556.41	2721.01	2240.55	2372.84	1911.51	
G21	1642.66	2847.64	3115.32	3184.86	3468.16	2592.62	2029.57	2261.65	1642.66	
G22	1378.3	2756.43	3038.56	3082.96	3363.65	2462.04	1779.93	2145.92	1378.3	
G23	1136.17	2655.87	2947.34	2990.75	3253.13	2323.42	1512.03	2027.14	1136.17	
G24	917.6	2562.37	2854.91	2874.08	3138.93	2196.11	1239.82	1913.03	917.6	
G25	739.56	2454.77	2755.03	2759.93	3020.78	2073.74	973.53	1803.77	739.56	
G26	616.92	2356.14	2649.68	2648.2	2898.82	1940.46	746.83	1681.89	616.92	
G27	539.62	2242.12	2533.32	2541.67	2790.27	1818.67	581.46	1537.03	539.62	
G28	473.63	2132.77	2421.05	2433.53	2656.64	1700.07	499.85	1378.66	473.63	
G29	416.09	2012.64	2276.37	2326.42	2522.82	1562.4	435.3	1201.89	416.09	
G30	362.71	1907.56	2070.87	2209.26	2383.79	1422.47	376.04	1012.31	362.71	
G31	316.79	1798.88	1820.51	2097.75	2202.3	1265.05	321.68	795.54	316.79	
G32	273.6	1685.93	1556.34	1985.44	1981.71	1115.34	275.85	581.64	273.6	
G33	235.76	1547.54	1304.23	1870.03	1740.57	954.0	237.6	412.72	235.76	
G34	198.32	1365.06	1061.11	1761.66	1474.23	757.79	207.48	302.78	198.32	
G35	178.84	1158.12	843.93	1652.67	1197.67	550.26	184.36	251.65	178.84	
G36	165.33	941.84	694.76	1521.86	931.15	377.88	170.94	220.72	165.33	

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	156.08	734.71	601.17	1372.33	722.77	277.82	161.47	200.25	156.08	
G38	148.86	568.44	527.14	1194.66	599.01	232.93	153.66	183.29	148.86	
G39	141.49	431.3	463.71	992.29	519.92	204.88	146.61	171.84	141.49	
G40	134.94	312.66	407.96	766.72	453.3	187.86	140.51	162.32	134.94	
G41	128.34	251.07	356.56	574.28	398.53	174.53	134.09	153.79	128.34	
G42	121.7	219.87	312.7	409.22	349.33	164.79	127.53	145.17	121.7	
G43	116.0	193.07	271.81	296.23	306.87	157.16	121.61	137.59	116.0	
G44	110.43	173.41	231.9	243.53	268.71	149.3	116.53	131.62	110.43	
G45	105.09	158.69	202.45	214.53	234.46	142.57	111.28	126.28	105.09	
G46	100.42	149.66	184.45	190.2	206.22	135.7	106.57	121.74	100.42	
G47	95.71	142.08	172.11	171.79	189.08	130.0	102.12	116.98	95.71	
G48	90.72	134.85	163.26	159.18	176.87	125.24	97.64	112.58	90.72	
G49	86.37	128.48	155.27	150.16	167.71	120.53	92.83	108.32	86.37	
G50	82.01	122.5	148.18	142.48	159.81	115.95	88.48	103.74	82.01	
G51	77.61	117.34	140.73	135.21	152.63	111.51	83.85	99.66	77.61	
G52	72.5	112.45	134.49	128.97	145.4	107.11	79.55	95.97	72.5	
G53	68.05	108.27	127.98	122.95	138.31	102.75	74.56	91.76	68.05	
G54	63.65	103.16	122.5	117.66	131.57	98.71	69.62	87.72	63.65	
G55	60.65	99.3	117.03	112.81	125.92	94.49	65.0	83.54	60.65	
G56	58.36	95.53	111.87	108.27	120.08	90.72	61.41	79.55	58.36	
G57	56.02	91.53	106.57	103.88	115.14	86.55	59.12	75.95	56.02	
G58	53.96	88.03	101.27	99.79	109.98	82.46	56.74	71.69	53.96	
G59	52.84	83.81	96.51	95.93	104.95	78.74	54.09	68.32	52.84	
G60	51.22	80.22	91.93	92.2	100.06	75.1	52.75	64.55	51.22	
G61	49.83	76.27	87.4	88.43	95.66	71.06	51.35	61.81	49.83	
G62	47.94	72.72	82.51	84.44	90.72	67.42	49.96	59.03	47.94	
G63	46.01	69.18	76.99	81.03	86.19	63.74	48.08	56.65	46.01	
G64	44.17	65.85	72.0	77.17	80.44	61.05	46.06	54.32	44.17	
G65	42.33	62.17	68.05	73.31	75.33	58.36	44.17	52.16	42.33	
G66	40.31	58.76	65.49	69.58	70.3	55.84	42.38	50.05	40.31	
G67	38.56	55.89	62.67	66.21	67.34	53.51	40.49	47.63	38.56	
G68	36.41	53.73	60.65	62.44	64.51	51.49	38.74	44.93	36.41	
G69	34.57	51.4	58.94	58.99	61.72	49.69	36.63	42.91	34.57	
G70	32.41	49.47	57.59	55.89	59.88	46.73	34.83	40.54	32.41	
G71	30.3	46.91	55.53	53.6	58.45	44.49	32.68	38.52	30.3	
G72	28.15	45.29	54.05	51.13	56.88	42.6	30.61	36.0	28.15	
G73	25.95	43.09	51.89	49.38	55.08	40.22	28.51	33.89	25.95	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2024/4/30 16:59:10

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.7 m

Remarks:

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