

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

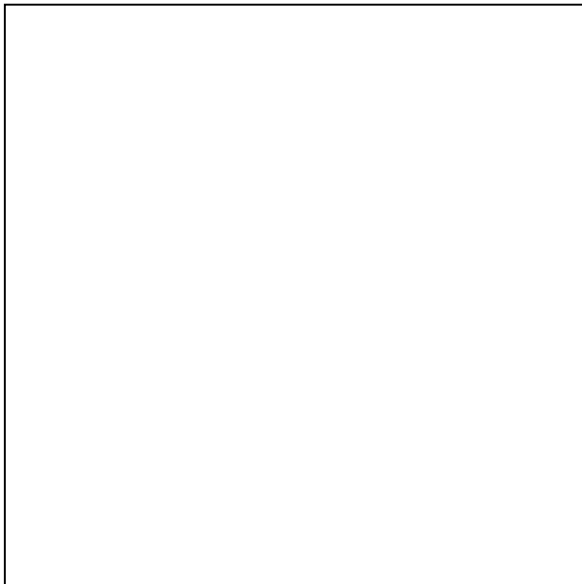
Voltage(V): 219.80 V
Current(A): 0.1360 A
Power(W): 28.61 W
Power Factor: 0.9490
Lamp Luminous Flux: 3134.40

Photometric Results

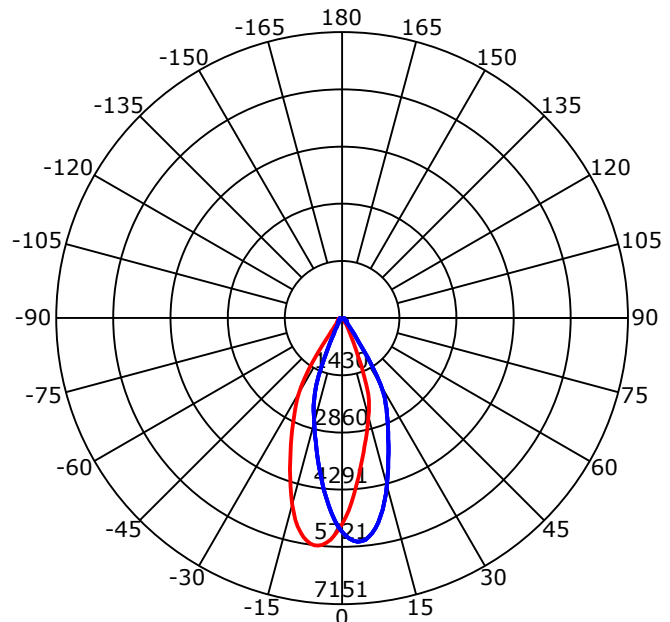
CIE Class: Direct
Luminaire Luminous Flux: 3134.404 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 109.56 lm/W
Beam Angle(50%) C0-180,C90-270: 37.9,38.2
Field Angle(10%) C0-180,C90-270: 63.0,63.1
S/MH C0-180,C90-270: 0.689,0.650

Max. Intensity: 5720.96 cd
Max.Intensity Angle: C=180 Gamma=7
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 5152.56 cd
Effective Luminous Flux: 2704.06 lm
ERP(ϕ use)(120deg): 3013.50 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



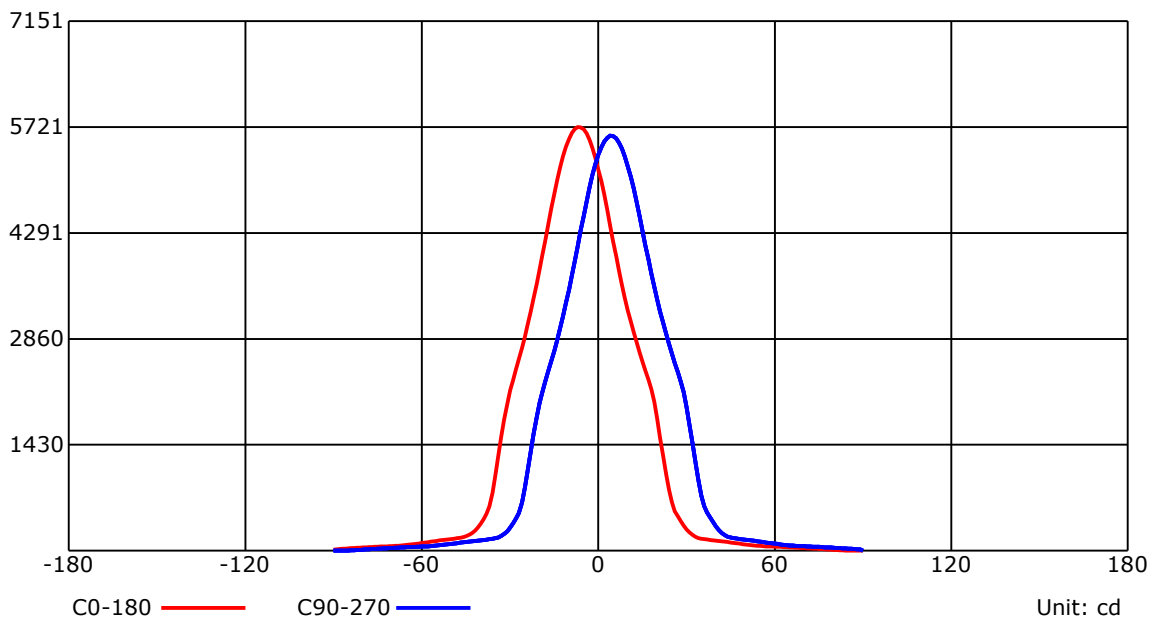
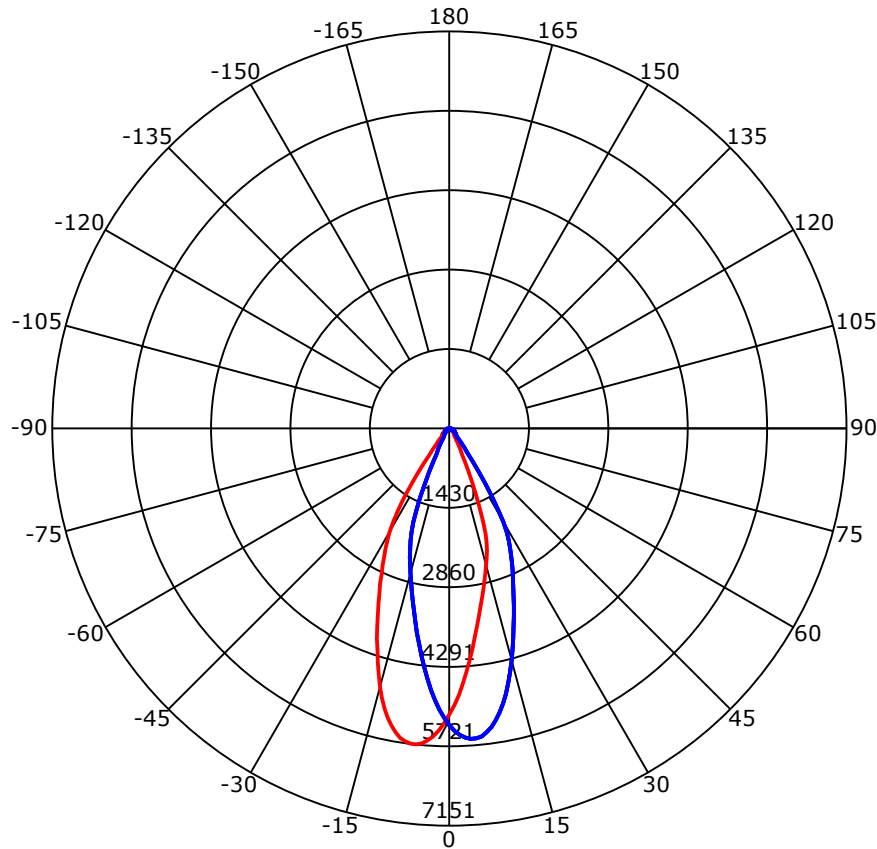
Beam Angle(50%) C0-180,C90-270: 37.9 deg,38.2 deg

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 17:08:34

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

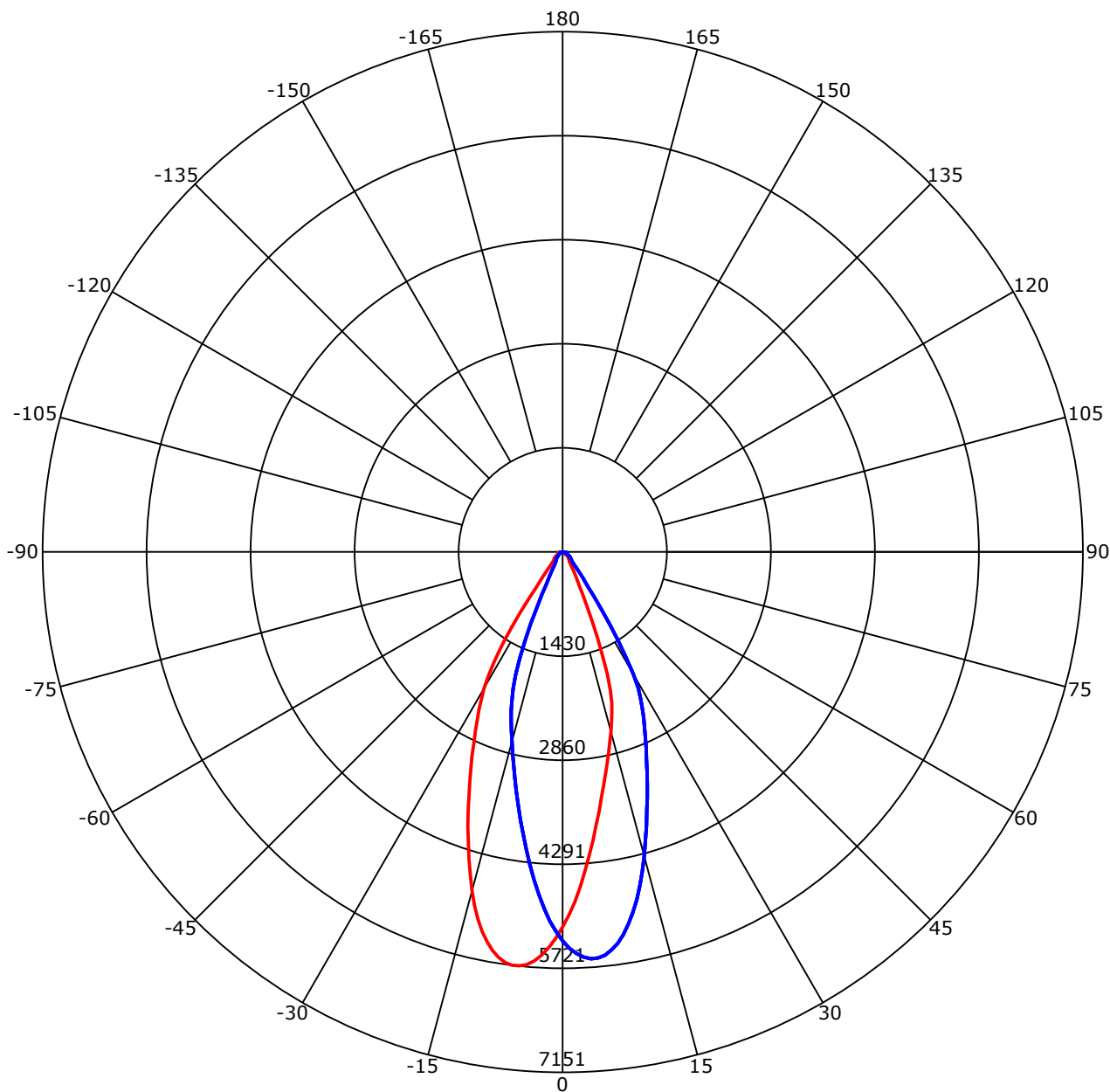
Luminous Intensity Distribution Curve



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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

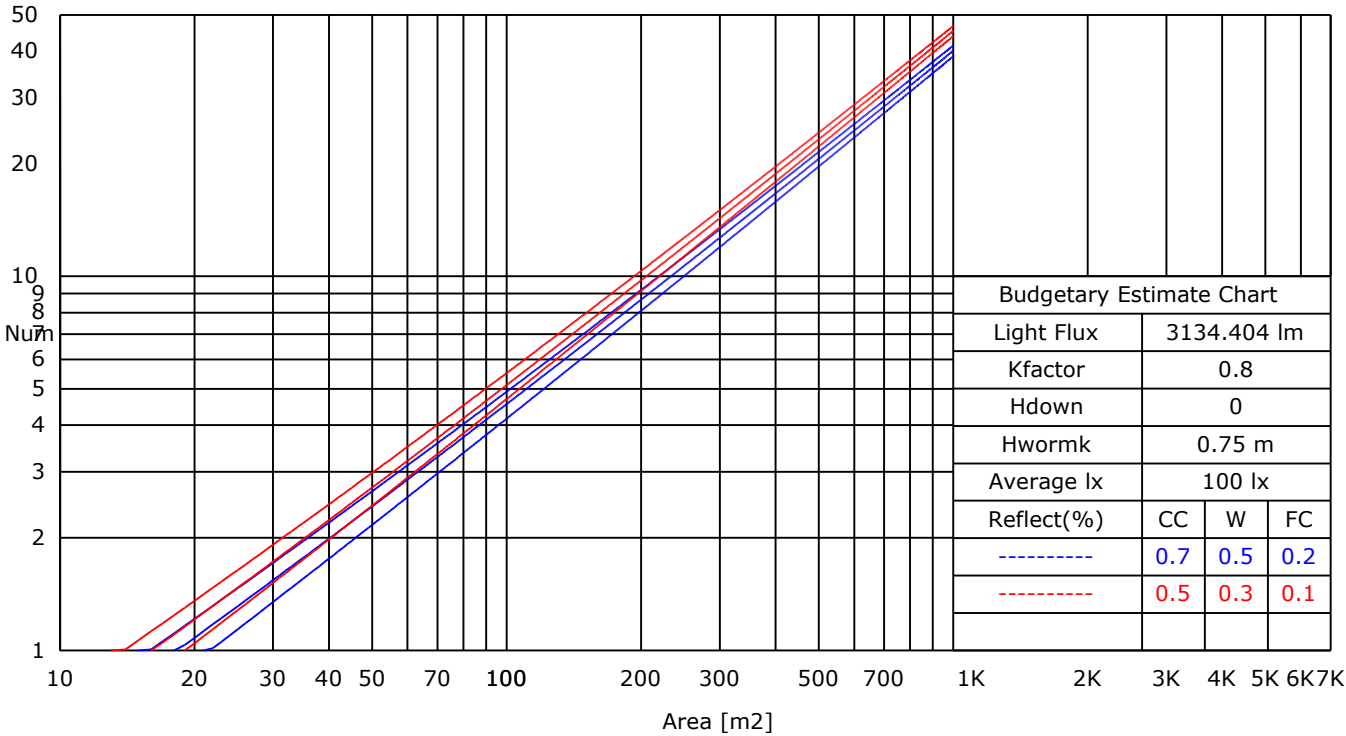
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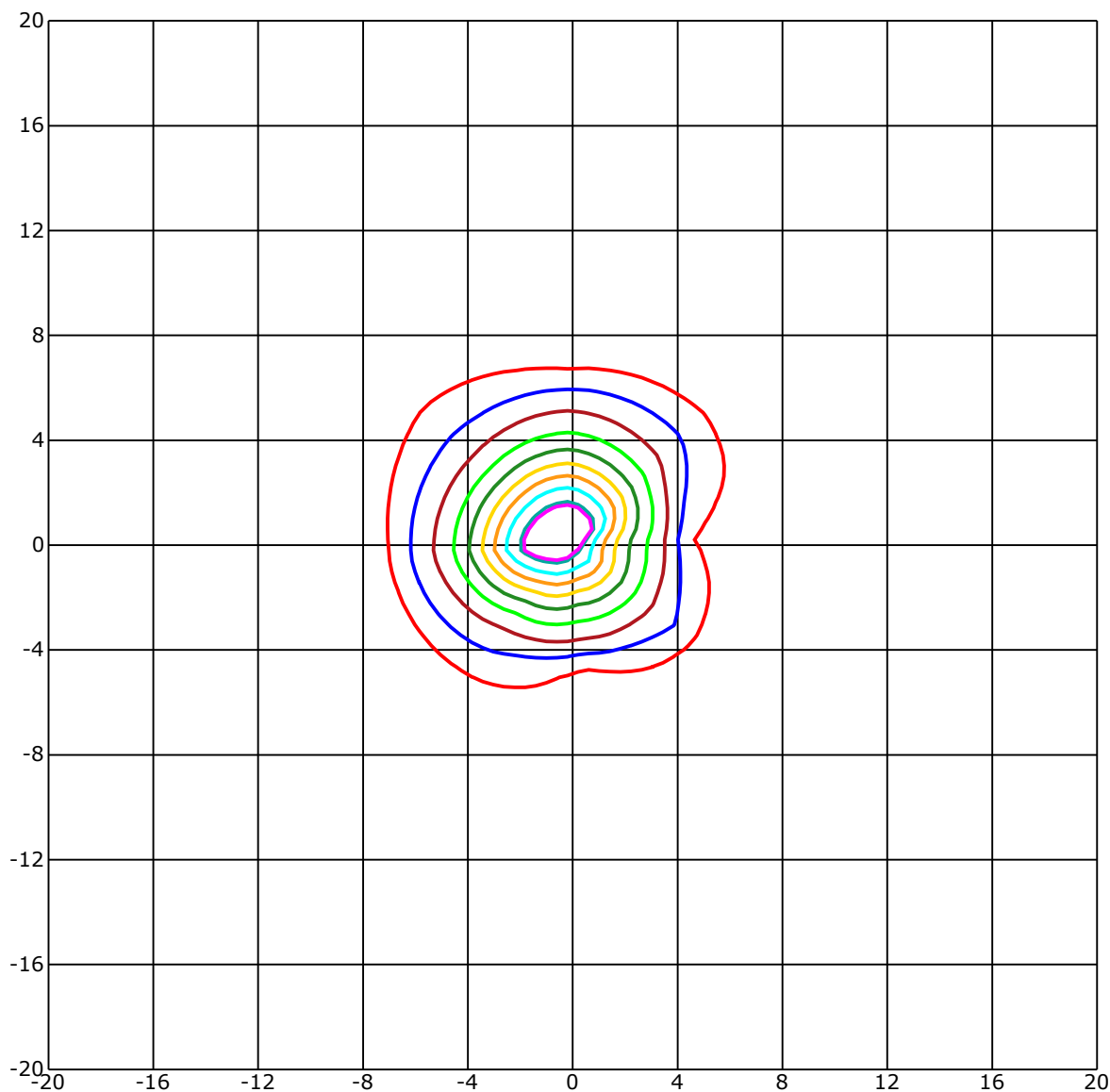
UTILIZATION FACTORS TABLE

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	1.02	1.00	0.98	1.01	0.98	0.97	0.97	0.95	0.93	0.93	0.90	0.88	0.87	0.84	0.81	0.76
2	0.97	0.95	0.93	0.96	0.93	0.92	0.93	0.90	0.88	0.89	0.86	0.83	0.84	0.80	0.78	0.73
3	0.92	0.90	0.89	0.91	0.89	0.87	0.89	0.86	0.83	0.85	0.82	0.79	0.81	0.77	0.74	0.70
4	0.88	0.87	0.85	0.88	0.85	0.84	0.85	0.82	0.80	0.82	0.79	0.76	0.78	0.74	0.71	0.67
5	0.85	0.83	0.82	0.84	0.82	0.80	0.82	0.79	0.77	0.79	0.76	0.73	0.76	0.72	0.68	0.64
6	0.82	0.80	0.79	0.81	0.79	0.78	0.79	0.76	0.74	0.77	0.73	0.70	0.74	0.69	0.66	0.62
7	0.79	0.78	0.77	0.78	0.76	0.75	0.77	0.73	0.71	0.74	0.70	0.68	0.72	0.67	0.64	0.60
8	0.77	0.75	0.74	0.76	0.74	0.73	0.74	0.71	0.69	0.72	0.68	0.66	0.70	0.65	0.62	0.58
9	0.74	0.73	0.72	0.74	0.72	0.71	0.72	0.69	0.67	0.70	0.66	0.64	0.68	0.63	0.60	0.57
10	0.72	0.71	0.70	0.72	0.70	0.69	0.70	0.67	0.65	0.68	0.64	0.62	0.66	0.62	0.58	0.55

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



ISOLX DIAGRAM



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

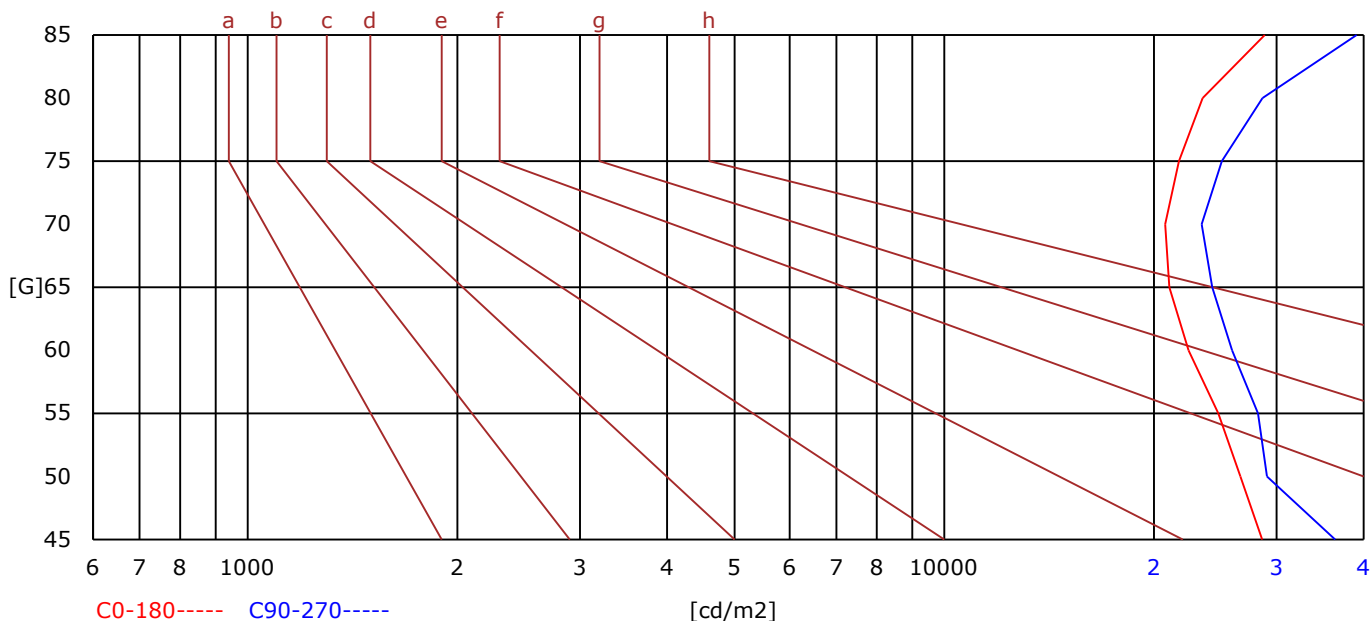
51.78(92%Emax)	28.141(50%Emax)
50.654(90%Emax)	22.513(40%Emax)
45.026(80%Emax)	16.885(30%Emax)
39.398(70%Emax)	11.256(20%Emax)
33.769(60%Emax)	5.628(10%Emax)

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Humidity: 60
Test Distance: 6.7 m
Remarks:

BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	28600	26609	24730	22421	21040	20763	21715	23488	28831
C90	36386	29064	28201	25880	24257	23407	25022	28626	39068
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:37.9 deg (C0_180)	Diameter
4.92ft 1.50m	212.75 , 236.22fc 2290.03 , 2542.65lx		3.38ft 1.03m
7.38ft 2.25m	94.56 , 104.99fc 1017.79 , 1130.07lx		5.06ft 1.54m
11.48ft 3.50m	39.08 , 43.39fc 420.62 , 467.02lx		7.88ft 2.40m
13.12ft 4.00m	29.92 , 33.22fc 322.04 , 357.56lx		9.00ft 2.74m
16.40ft 5.00m	19.15 , 21.26fc 206.10 , 228.84lx		11.25ft 3.43m
21.33ft 6.50m	11.33 , 12.58fc 121.95 , 135.41lx		14.63ft 4.46m
22.97ft 7.00m	9.77 , 10.85fc 105.15 , 116.75lx		15.75ft 4.80m
26.25ft 8.00m	7.48 , 8.30fc 80.51 , 89.39lx		18.00ft 5.49m
29.53ft 9.00m	5.91 , 6.56fc 63.61 , 70.63lx		20.26ft 6.17m
32.81ft 10.00m	4.79 , 5.31fc 51.53 , 57.21lx		22.51ft 6.86m

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	15.45	15.50	15.65	15.69	15.93	15.65	15.70	15.85	15.89	16.13
3H	15.47	15.52	15.68	15.72	15.96	15.65	15.71	15.86	15.90	16.15
4H	15.47	15.52	15.68	15.72	15.97	15.64	15.70	15.85	15.89	16.14
6H	15.46	15.51	15.67	15.71	15.96	15.63	15.68	15.84	15.88	16.13
8H	15.45	15.50	15.66	15.70	15.96	15.62	15.67	15.84	15.88	16.13
12H	15.44	15.49	15.66	15.70	15.95	15.61	15.66	15.83	15.87	16.12
4H 2H	15.86	15.91	16.07	16.11	16.36	16.35	16.41	16.56	16.60	16.85
3H	15.98	16.04	16.20	16.24	16.50	16.47	16.52	16.69	16.73	16.98
4H	16.02	16.08	16.25	16.29	16.55	16.49	16.54	16.72	16.76	17.01
6H	16.04	16.09	16.28	16.31	16.57	16.49	16.54	16.72	16.76	17.02
8H	16.04	16.09	16.28	16.31	16.58	16.47	16.53	16.72	16.75	17.02
12H	16.03	16.08	16.27	16.31	16.58	16.46	16.51	16.71	16.74	17.01
8H 4H	15.94	16.00	16.16	16.20	16.45	16.77	16.82	16.99	17.03	17.28
6H	16.28	16.33	16.54	16.57	16.84	17.17	17.22	17.42	17.45	17.73
8H	16.31	16.36	16.57	16.60	16.88	17.17	17.22	17.44	17.47	17.74
12H	16.33	16.37	16.60	16.62	16.90	17.17	17.21	17.44	17.46	17.74
12H 4H	16.22	16.27	16.47	16.50	16.77	17.38	17.42	17.62	17.66	17.93
6H	16.31	16.36	16.57	16.60	16.88	17.49	17.53	17.75	17.78	18.06

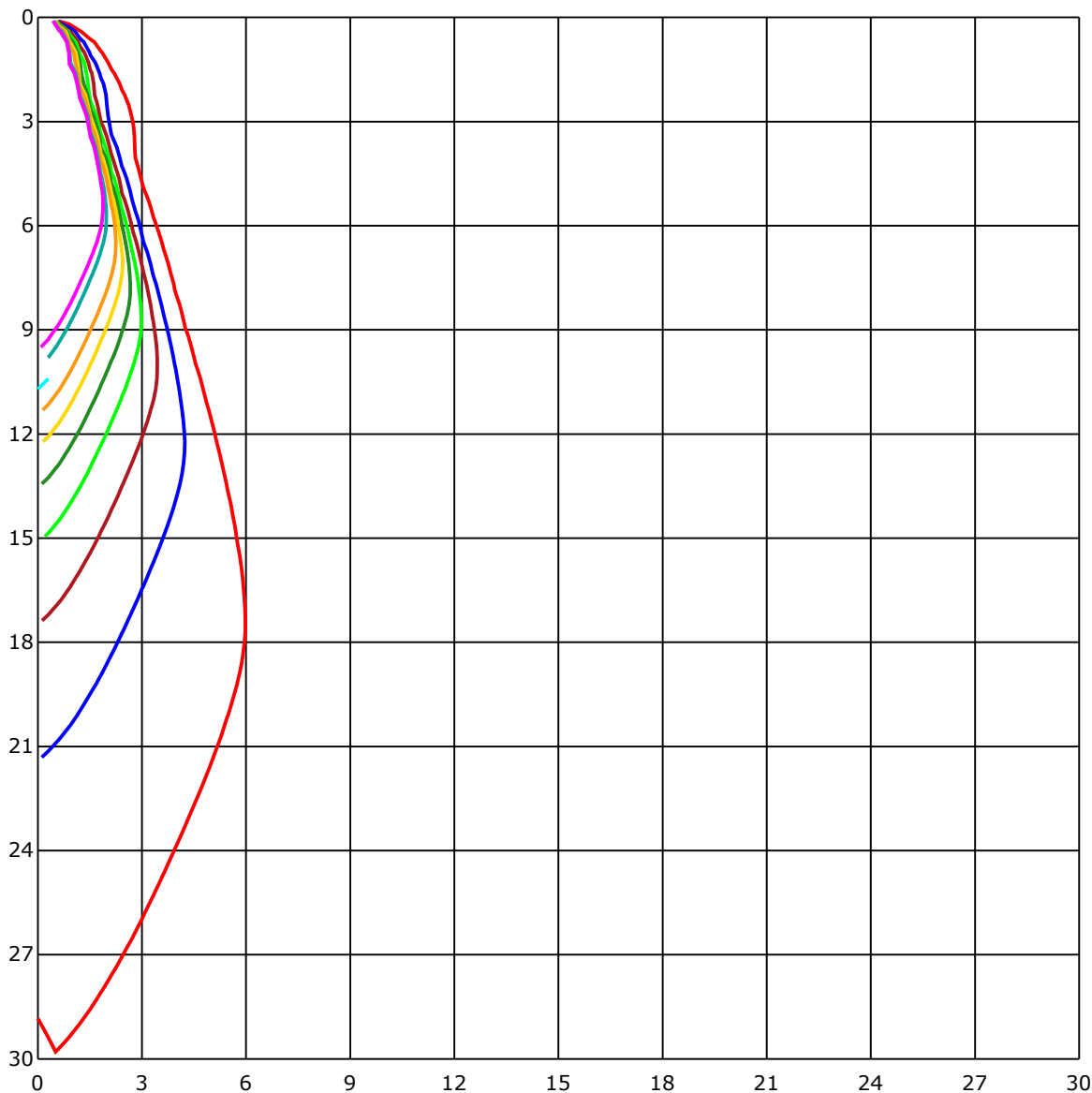
ZONAL LUMINOUS FLUX TABLE

[illegible]

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/4/30 17:08:34

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

56.164	28.082
50.547	22.465
44.931	16.849
39.314	11.233
33.698	5.616

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Test Date: 2024/4/30 17:08:34

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	5152.56	5608.56	5343.89	5363.1	5152.56	5608.56	5343.89	5363.1	5152.56	
G1	4988.54	5627.32	5447.0	5476.54	5306.09	5563.62	5218.01	5231.03	4988.54	
G2	4809.2	5620.9	5525.82	5567.21	5437.17	5491.89	5075.89	5076.88	4809.2	
G3	4609.35	5578.48	5575.92	5630.15	5549.21	5395.42	4906.66	4905.27	4609.35	
G4	4392.26	5514.6	5604.7	5669.56	5633.56	5279.96	4716.91	4720.0	4392.26	
G5	4186.71	5424.46	5600.25	5676.16	5692.64	5143.09	4523.16	4529.36	4186.71	
G6	3982.96	5310.31	5572.06	5652.59	5718.18	4983.1	4322.95	4325.42	3982.96	
G7	3778.26	5172.14	5509.8	5610.31	5720.96	4804.31	4113.94	4114.57	3778.26	
G8	3591.65	5021.04	5431.91	5536.33	5693.53	4609.53	3914.9	3920.15	3591.65	
G9	3412.36	4850.05	5324.13	5440.98	5642.04	4407.48	3725.47	3721.34	3412.36	
G10	3249.77	4667.48	5193.68	5322.74	5561.02	4204.08	3524.49	3548.55	3249.77	
G11	3094.09	4469.34	5048.11	5184.71	5455.17	4019.45	3343.23	3365.63	3094.09	
G12	2951.34	4271.1	4889.64	5026.78	5328.8	3808.92	3167.35	3212.33	2951.34	
G13	2816.13	4068.96	4711.16	4840.62	5177.66	3617.28	3004.76	3052.16	2816.13	
G14	2683.66	3876.7	4523.97	4652.0	5007.61	3424.61	2847.33	2908.02	2683.66	
G15	2555.14	3689.33	4324.16	4449.81	4819.84	3243.84	2699.19	2776.27	2555.14	
G16	2436.0	3495.41	4127.14	4235.96	4614.42	3064.87	2556.76	2643.98	2436.0	
G17	2309.19	3325.41	3935.01	4038.39	4405.64	2904.92	2424.96	2526.19	2309.19	
G18	2179.41	3161.96	3741.81	3827.46	4195.55	2749.24	2293.16	2406.69	2179.41	
G19	2015.38	3016.79	3569.74	3624.96	4003.96	2603.62	2147.99	2279.65	2015.38	
G20	1787.16	2876.1	3396.56	3435.84	3799.67	2463.83	1998.14	2168.91	1787.16	
G21	1527.88	2744.17	3229.03	3267.63	3601.44	2334.82	1804.31	2061.89	1527.88	
G22	1274.83	2616.59	3075.28	3100.1	3408.14	2201.81	1574.88	1965.46	1274.83	
G23	1037.05	2502.93	2934.1	2940.21	3226.33	2084.87	1332.2	1859.52	1037.05	
G24	827.86	2384.15	2793.01	2796.83	3061.5	1967.17	1088.9	1770.96	827.86	
G25	657.37	2272.11	2662.79	2654.3	2890.2	1856.16	852.51	1677.63	657.37	
G26	534.6	2176.36	2534.8	2521.56	2736.72	1751.11	649.29	1581.88	534.6	
G27	462.91	2070.82	2408.57	2390.8	2587.82	1657.11	507.21	1461.44	462.91	
G28	397.95	1968.52	2281.0	2270.4	2449.06	1556.38	431.8	1324.43	397.95	
G29	337.8	1868.46	2140.71	2144.53	2303.44	1439.98	369.44	1157.89	337.8	
G30	287.03	1767.36	1938.84	2032.66	2165.54	1311.91	311.99	967.11	287.03	
G31	246.27	1673.41	1700.25	1922.23	1979.96	1168.04	262.16	752.09	246.27	
G32	211.61	1574.7	1439.4	1819.12	1770.19	1026.5	224.27	548.15	211.61	
G33	186.2	1460.81	1189.09	1723.28	1538.92	875.49	198.55	384.98	186.2	
G34	170.58	1294.04	950.86	1625.96	1286.82	684.26	180.46	281.19	170.58	
G35	162.1	1099.72	744.77	1523.03	1027.26	493.25	168.07	235.13	162.1	
G36	155.81	894.43	600.36	1407.39	785.44	333.8	161.02	209.28	155.81	

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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	150.74	689.24	516.24	1257.06	598.43	248.24	155.5	189.75	150.74	
G38	145.89	522.92	446.07	1084.77	496.39	213.23	150.07	176.01	145.89	
G39	141.04	392.92	384.26	883.75	424.93	192.13	145.71	166.36	141.04	
G40	137.27	276.34	326.49	671.29	363.97	177.99	141.13	158.28	137.27	
G41	131.98	212.37	278.14	490.24	310.95	168.2	136.91	151.19	131.98	
G42	127.26	188.45	239.85	343.14	268.67	160.08	132.52	146.97	127.26	
G43	121.74	171.57	209.1	246.98	236.26	154.24	128.3	141.94	121.74	
G44	116.67	157.52	188.85	209.91	212.2	149.12	123.4	138.17	116.67	
G45	110.92	149.57	178.48	190.29	194.42	145.17	118.29	133.82	110.92	
G46	105.31	143.06	169.86	174.08	182.84	140.55	112.67	128.92	105.31	
G47	99.79	137.86	163.94	160.3	175.07	136.96	107.42	123.9	99.79	
G48	94.76	133.41	158.24	151.23	169.24	132.74	101.63	119.41	94.76	
G49	89.6	129.6	153.75	144.19	162.73	127.94	96.11	113.62	89.6	
G50	84.8	126.5	148.72	138.17	158.01	122.86	91.04	108.86	84.8	
G51	80.35	122.82	144.14	134.4	152.63	117.79	86.5	103.79	80.35	
G52	76.18	118.78	139.02	131.35	148.23	111.78	81.61	99.21	76.18	
G53	71.82	114.87	133.55	127.53	142.66	106.7	77.44	94.81	71.82	
G54	67.2	109.67	128.21	124.08	137.72	101.9	72.99	90.72	67.2	
G55	63.88	104.91	122.1	119.63	131.98	97.23	68.23	86.41	63.88	
G56	61.5	99.97	116.49	115.59	126.77	92.88	64.37	82.82	61.5	
G57	58.99	95.44	110.61	110.56	120.57	89.15	62.17	79.01	58.99	
G58	56.92	90.95	104.5	105.72	114.38	84.89	59.43	75.55	56.92	
G59	55.48	86.91	99.57	100.24	108.32	81.3	57.14	72.0	55.48	
G60	54.09	82.91	94.18	95.71	102.8	77.48	55.66	68.37	54.09	
G61	52.48	79.28	89.87	90.9	97.41	73.89	54.18	65.14	52.48	
G62	50.91	75.86	84.84	86.68	92.74	70.43	52.57	62.67	50.91	
G63	48.89	72.5	80.08	82.91	87.67	66.66	50.77	59.84	48.89	
G64	46.91	69.04	75.1	79.41	83.14	63.88	49.02	57.46	46.91	
G65	44.71	65.76	71.38	75.82	77.93	61.05	46.87	55.35	44.71	
G66	43.14	62.4	68.77	72.09	73.44	58.4	44.89	52.84	43.14	
G67	40.85	59.08	66.44	68.95	70.21	56.38	42.91	50.5	40.85	
G68	38.83	56.83	63.83	65.31	67.78	53.87	40.89	48.39	38.83	
G69	36.72	54.36	62.17	61.77	64.82	51.85	39.19	45.52	36.72	
G70	34.52	52.52	60.6	59.21	62.98	49.38	36.85	43.23	34.52	
G71	32.19	50.05	58.63	56.74	61.45	46.91	34.83	41.34	32.19	
G72	30.17	48.03	56.97	54.27	59.52	44.4	32.55	38.65	30.17	
G73	27.74	45.88	54.99	52.03	57.55	42.29	30.3	36.0	27.74	

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C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/4/30 17:08:34

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: