

Report No.:

Test Time: 2023/7/14 14:13:10

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBDL141CT110
Lamp Type: Philips-3v1w
Luminous Width: 80 mm
Luminous Length: 80 mm
Luminous Height: 80 mm

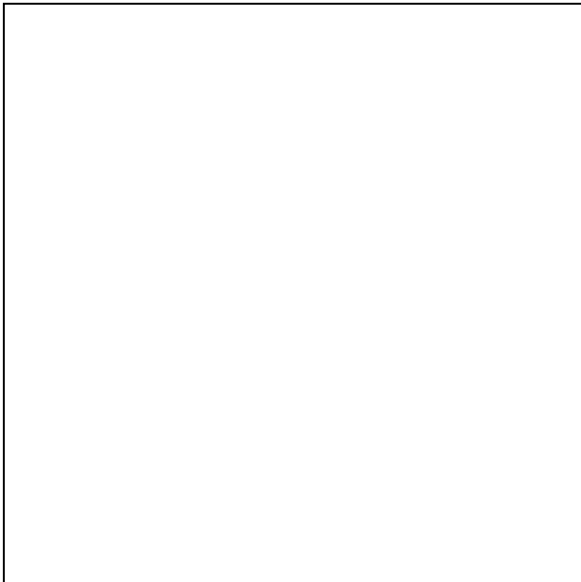
Voltage(V): 219.90 V
Current(A): 0.0670 A
Power(W): 14.35 W
Power Factor: 0.9620
Lamp Luminous Flux: 1377.33

Photometric Results

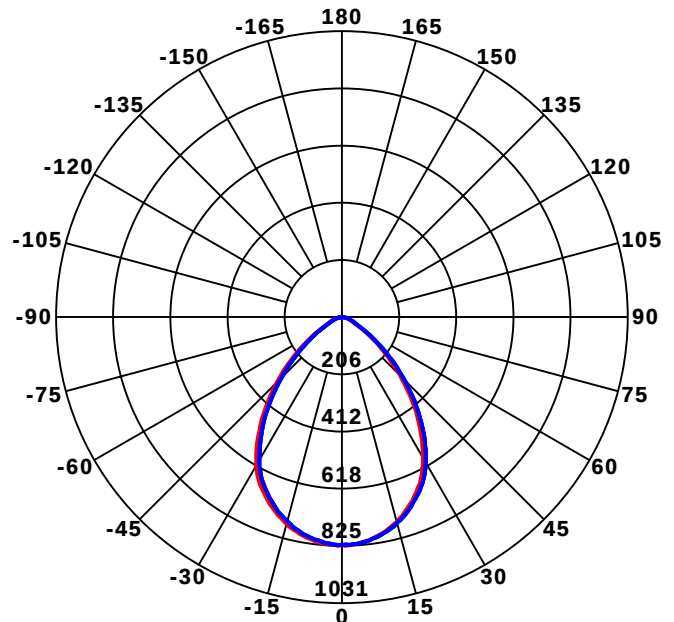
CIE Class: Direct
Luminaire Luminous Flux: 1377.334 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 95.98 lm/W
Beam Angle(50%) C0-180,C90-270: 79.9,80.1
Field Angle(10%) C0-180,C90-270: 120.7,120.8
S/MH C0-180,C90-270: 1.109,1.109

Max. Intensity: 824.64 cd
Max.Intensity Angle: C=180 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 822.76 cd
Effective Luminous Flux: 1291.72 lm
ERP(ϕ use)(120deg): 1289.24 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 79.9 deg,80.1 deg

C0-180 — C90-270

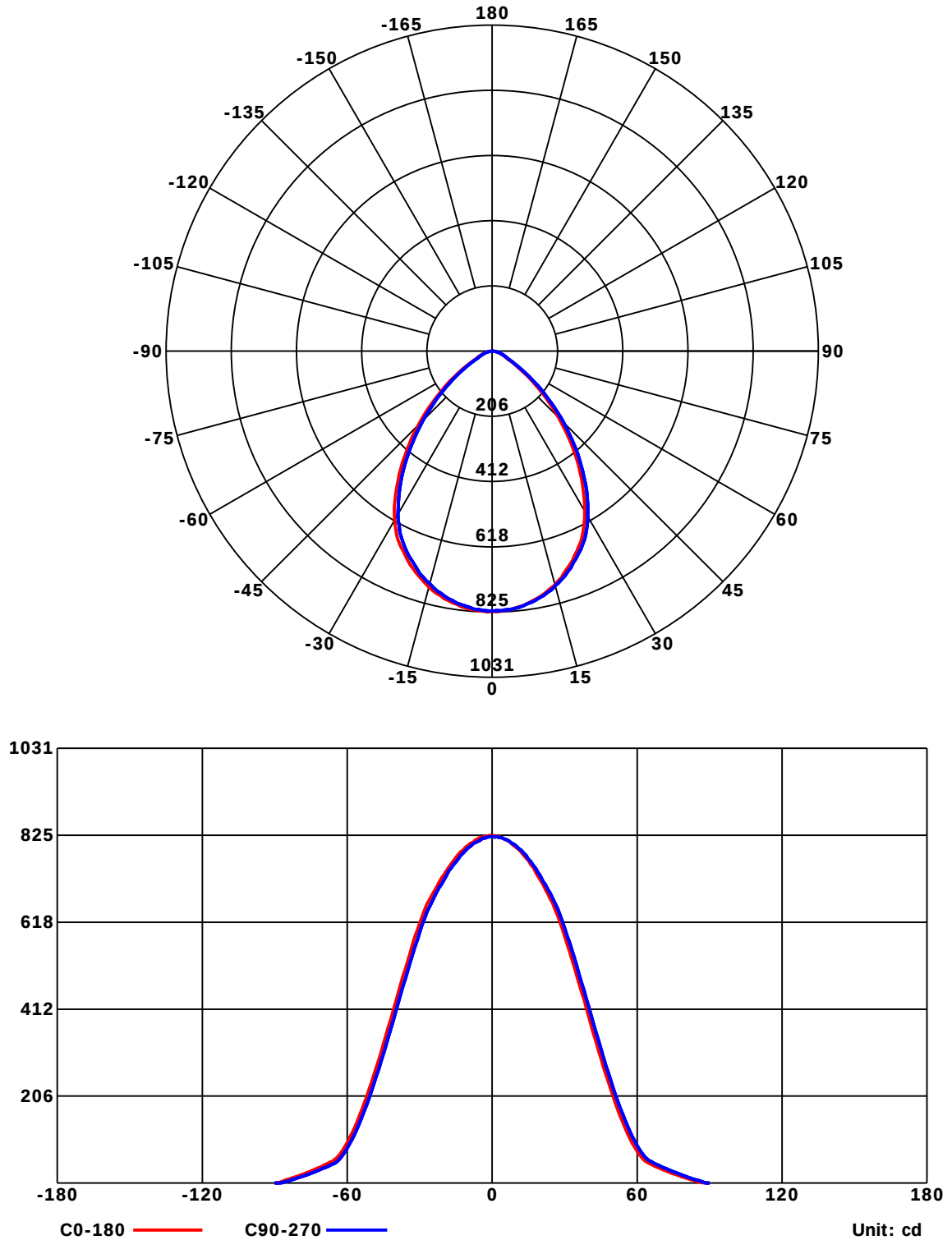
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2023/7/14 14:13:10

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1800 Goniophotometer
Humidity: 60
Test Distance: 6.66 m
Remarks:

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Test Time: 2023/7/14 14:13:10

Luminous Intensity Distribution Curve



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2023/7/14 14:13:10

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800 Goniophotometer

Humidity: 60

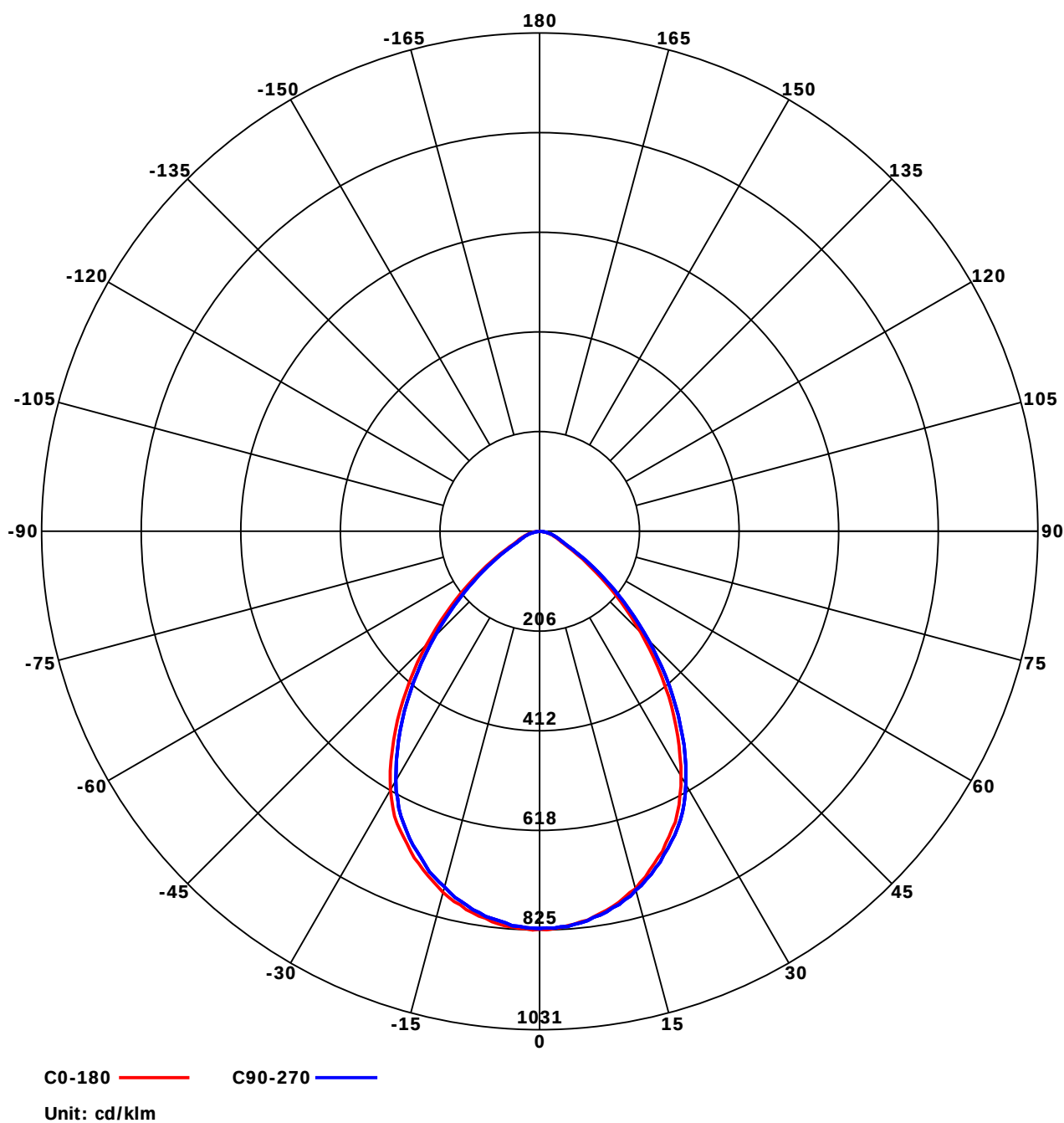
Test Distance: 6.66 m

Remarks:

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Luminous Intensity Distribution Curve



C Range: 0 - 360 Deg
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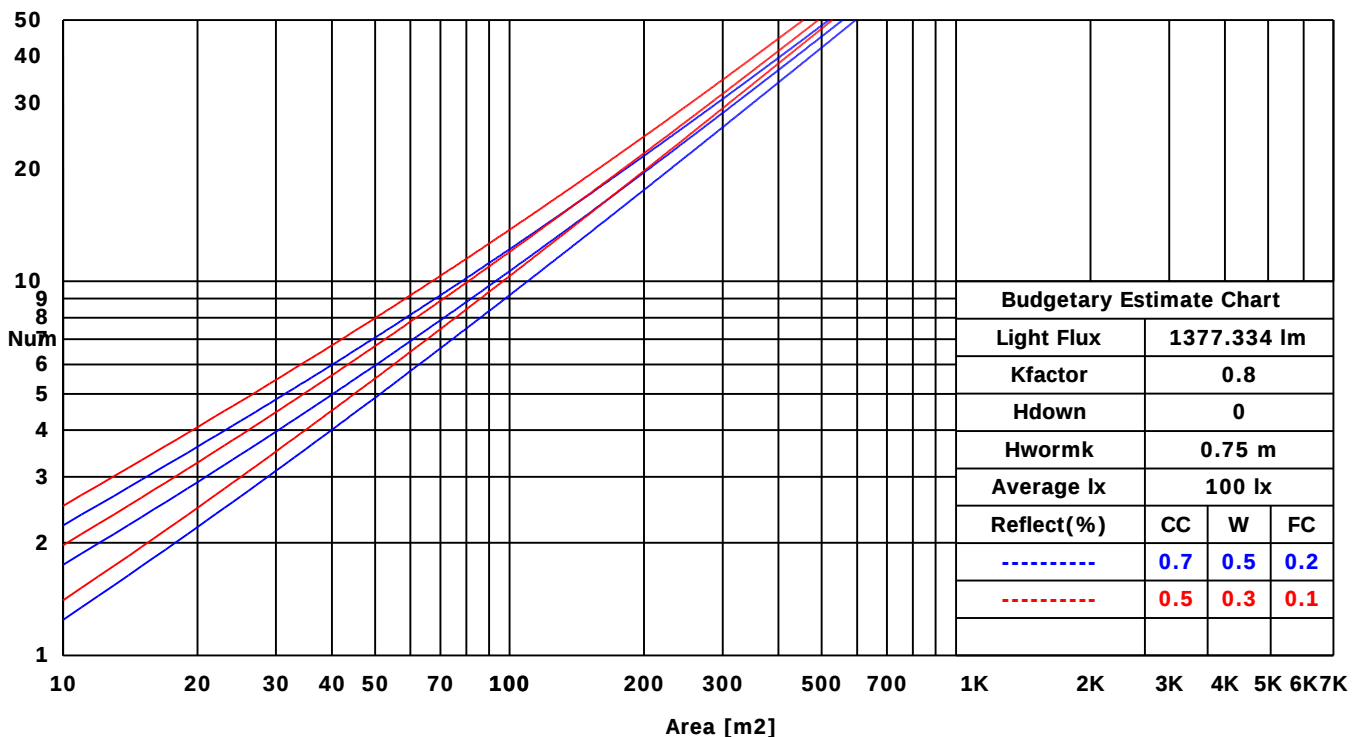
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UTILIZATION FACTORS TABLE

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	1.08	1.07	1.06	1.07	1.05	1.04	1.03	1.01	0.99	0.98	0.96	0.94	0.91	0.89	0.87	0.82
2	1.00	0.98	0.97	0.99	0.97	0.95	0.96	0.93	0.91	0.91	0.89	0.86	0.86	0.83	0.80	0.76
3	0.93	0.91	0.89	0.92	0.89	0.88	0.89	0.86	0.84	0.86	0.82	0.79	0.81	0.77	0.74	0.70
4	0.86	0.84	0.83	0.85	0.83	0.81	0.83	0.80	0.77	0.80	0.76	0.73	0.77	0.72	0.69	0.65
5	0.80	0.78	0.77	0.80	0.77	0.75	0.78	0.74	0.72	0.75	0.71	0.68	0.72	0.68	0.64	0.60
6	0.75	0.73	0.72	0.74	0.72	0.70	0.73	0.70	0.67	0.71	0.67	0.64	0.69	0.64	0.60	0.56
7	0.70	0.68	0.67	0.70	0.67	0.66	0.69	0.65	0.63	0.67	0.63	0.60	0.65	0.60	0.56	0.53
8	0.66	0.64	0.63	0.66	0.63	0.62	0.65	0.61	0.59	0.64	0.59	0.56	0.62	0.57	0.53	0.50
9	0.63	0.61	0.60	0.62	0.60	0.58	0.62	0.58	0.56	0.60	0.56	0.53	0.59	0.54	0.50	0.47
10	0.59	0.58	0.57	0.59	0.57	0.55	0.58	0.55	0.53	0.57	0.53	0.50	0.56	0.51	0.47	0.44

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2023/7/14 14:13:10

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800 Goniophotometer

Humidity: 60

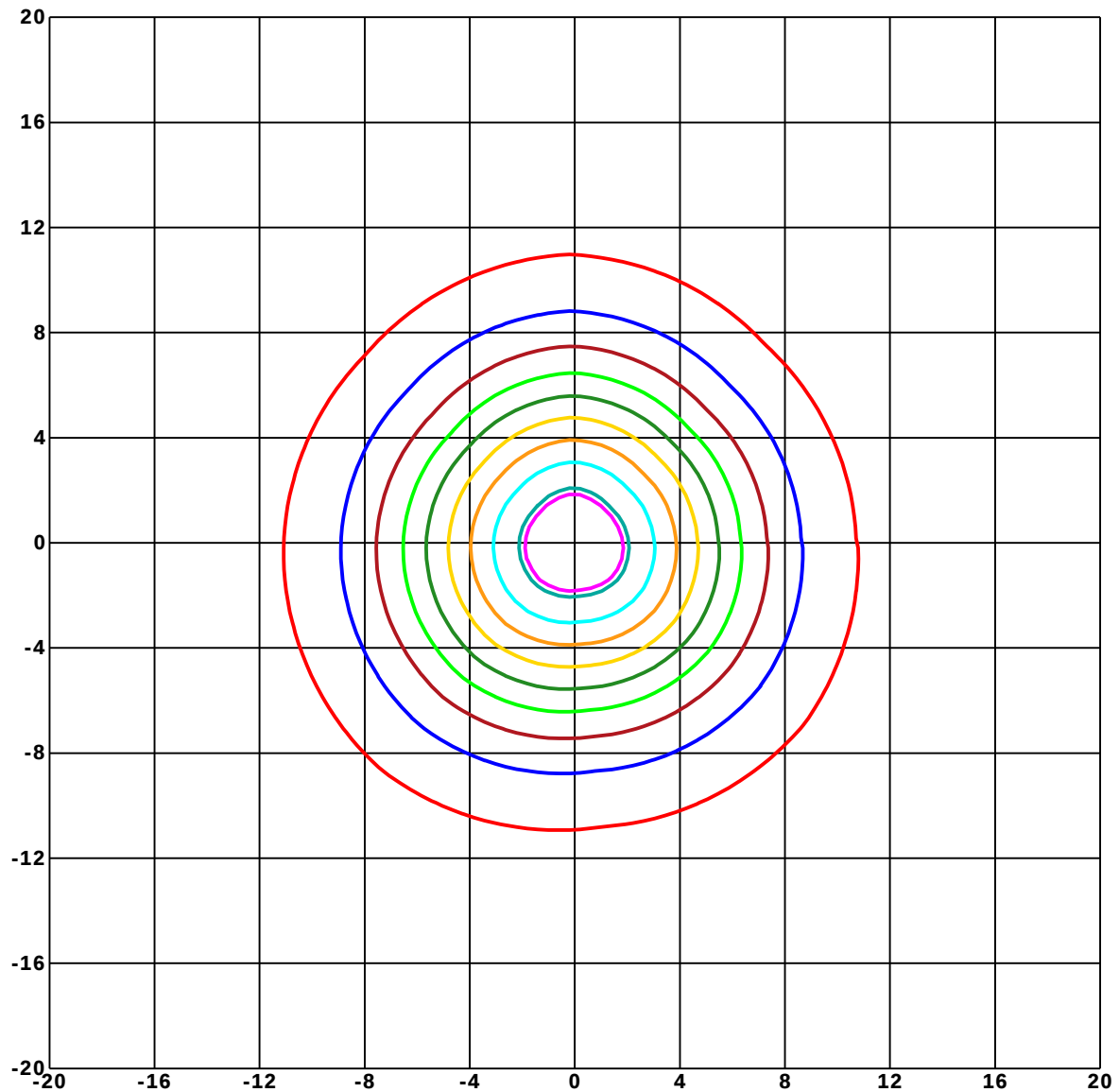
Test Distance: 6.66 m

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ISOLX DIAGRAM



Unit of illumination:lx

Height of plane:10.0(m)/32.81(ft)

7.583(1%E_{max})

7.418(1%E_{max})

6.594(1%E_{max})

5.77(1%E_{max})

4.946(1%E_{max})

4.121(0%E_{max})

3.297(0%E_{max})

2.473(0%E_{max})

1.649(0%E_{max})

0.824(0%E_{max})

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Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2023/7/14 14:13:10

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800 Goniophotometer

Humidity: 60

Test Distance: 6.66 m

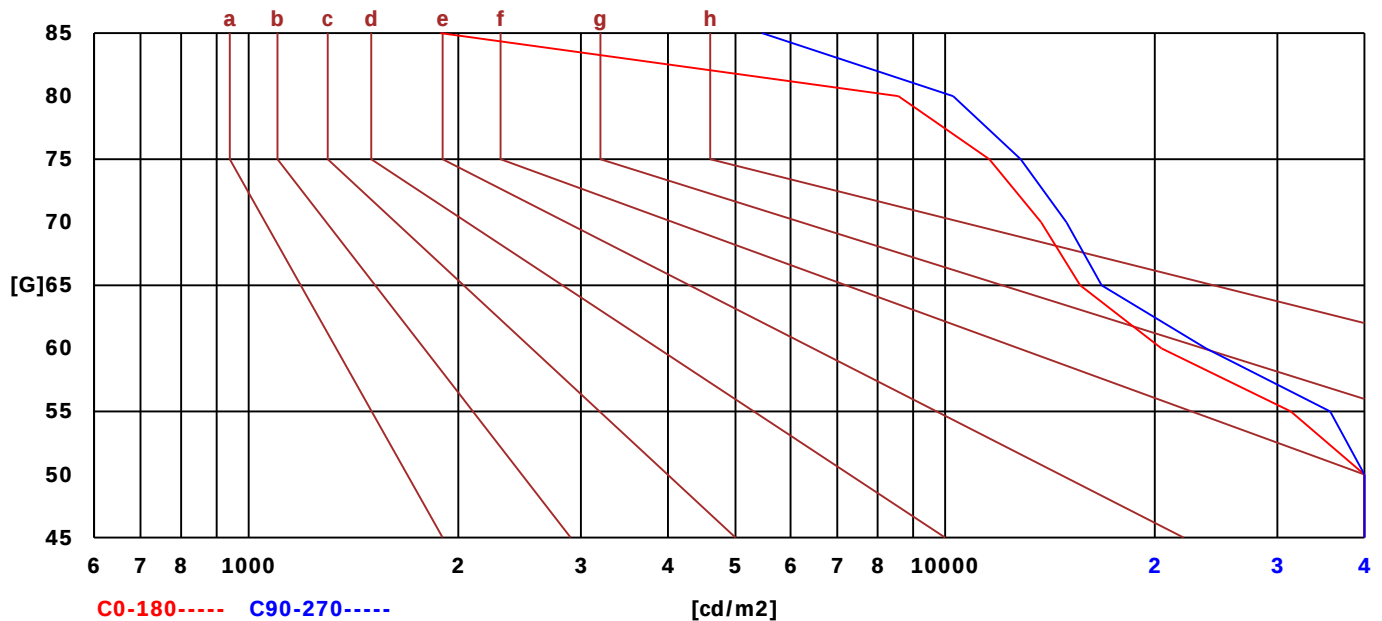
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	60076	45180	31366	20440	15623	13739	11568	8571	1886
C90	65228	49905	35711	23676	16770	14928	12839	10266	5461
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

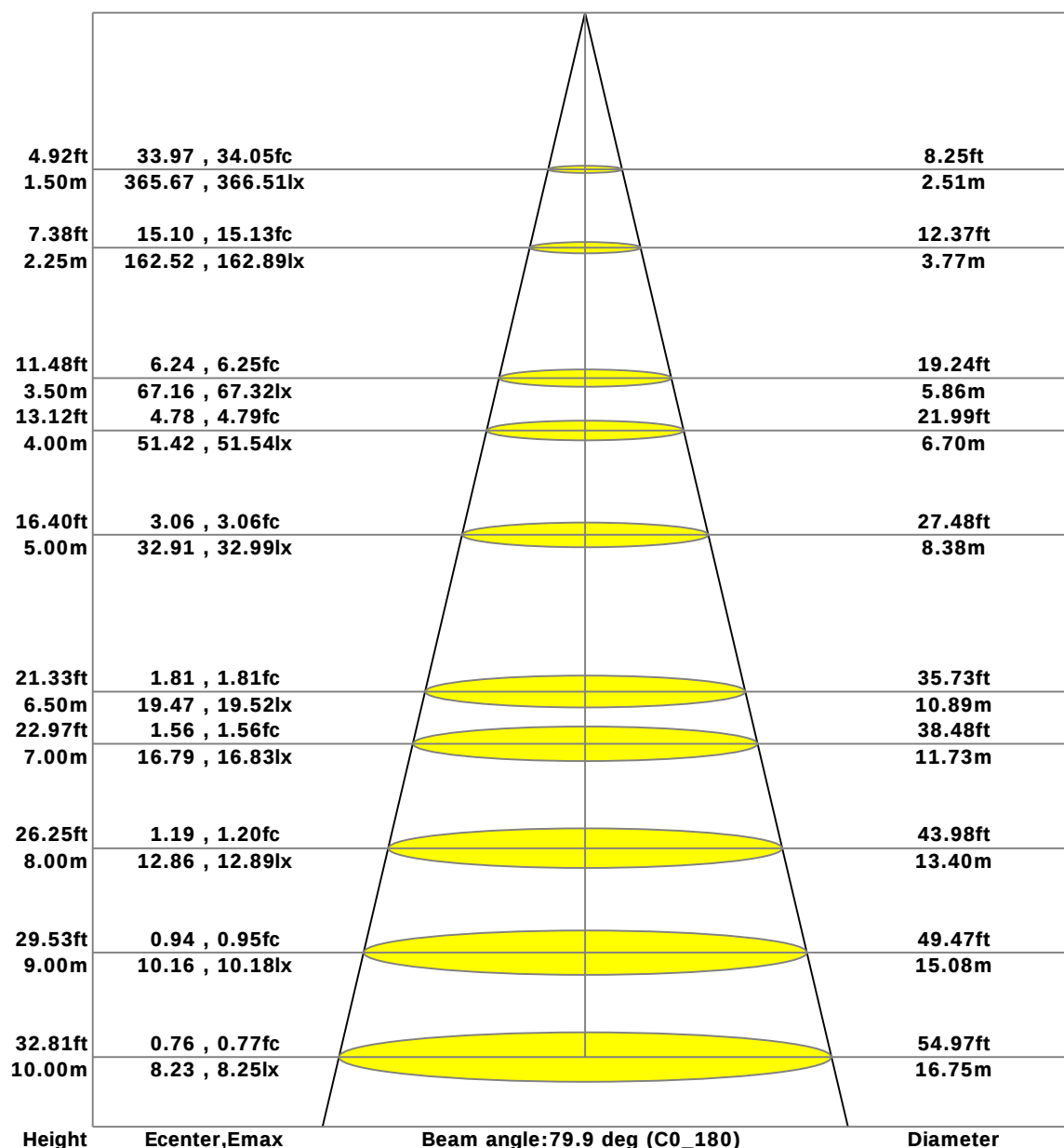
Test Distance: 6.66 m

Remarks:

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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

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G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800 Goniophotometer

Humidity: 60

Test Distance: 6.66 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	21.41	21.47	21.61	21.66	21.90	21.69	21.75	21.89	21.94	22.18
3H	21.41	21.47	21.61	21.66	21.91	21.68	21.74	21.89	21.93	22.18
4H	21.39	21.45	21.60	21.65	21.90	21.66	21.72	21.88	21.92	22.17
6H	21.37	21.43	21.59	21.63	21.88	21.64	21.70	21.86	21.90	22.15
8H	21.36	21.42	21.58	21.62	21.87	21.63	21.69	21.85	21.89	22.14
12H	21.34	21.40	21.57	21.61	21.86	21.62	21.67	21.84	21.88	22.13
4H 2H	22.01	22.07	22.22	22.27	22.52	22.38	22.44	22.59	22.64	22.89
3H	22.06	22.12	22.28	22.33	22.58	22.43	22.48	22.65	22.69	22.94
4H	22.06	22.12	22.29	22.33	22.59	22.42	22.48	22.65	22.69	22.95
6H	22.05	22.10	22.28	22.32	22.58	22.40	22.45	22.64	22.68	22.94
8H	22.03	22.08	22.28	22.31	22.58	22.39	22.44	22.63	22.66	22.93
12H	22.02	22.06	22.27	22.30	22.57	22.37	22.42	22.62	22.65	22.92
8H 4H	22.16	22.22	22.38	22.42	22.67	22.61	22.67	22.83	22.87	23.12
6H	22.26	22.30	22.51	22.54	22.81	22.70	22.75	22.96	22.99	23.26
8H	22.24	22.29	22.50	22.53	22.81	22.69	22.73	22.95	22.98	23.25
12H	22.23	22.26	22.49	22.52	22.80	22.67	22.71	22.94	22.96	23.24
12H 4H	22.28	22.32	22.52	22.56	22.82	22.76	22.81	23.01	23.04	23.31
6H	22.27	22.31	22.53	22.56	22.83	22.76	22.80	23.02	23.04	23.32

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G Range: 0 - 90 Deg

G Interval: 1.0 Deg

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Humidity: 60

Test Distance: 6.66 m

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ZONAL LUMINOUS FLUX TABLE

[illegible]

C Range: 0 - 360 Deg

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G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800 Goniophotometer

Humidity: 60

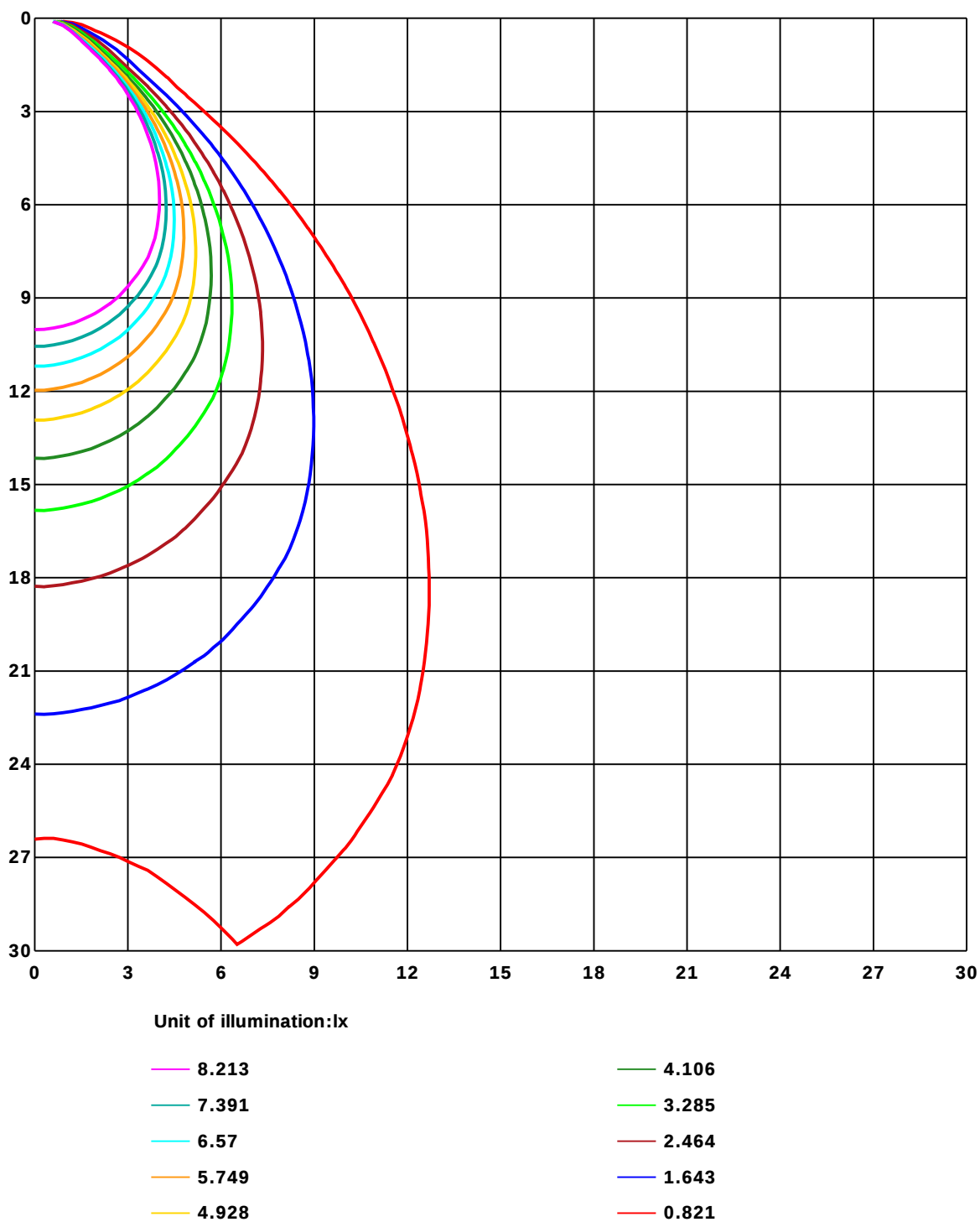
Test Distance: 6.66 m

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SPACE ISOLX DIAGRAM



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2023/7/14 14:13:10

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800 Goniophotometer

Humidity: 60

Test Distance: 6.66 m

Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma/C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	822.76	818.66	821.54	823.04	822.76	818.66	821.54	823.04	822.76	
G1	824.31	816.89	820.38	822.21	824.64	819.44	820.99	823.43	824.31	
G2	822.48	817.67	821.15	819.16	822.21	822.04	820.05	822.04	822.48	
G3	820.82	813.68	818.94	820.32	822.59	819.16	817.94	822.65	820.82	
G4	817.67	812.29	819.27	816.17	819.77	819.55	817.67	820.21	817.67	
G5	815.78	808.47	816.0	813.9	819.55	816.23	812.9	820.27	815.78	
G6	812.13	805.98	814.07	808.75	816.28	817.44	809.86	816.84	812.13	
G7	810.3	799.45	811.02	805.98	813.24	812.79	807.03	815.84	810.3	
G8	804.98	796.57	805.76	801.22	807.86	810.52	804.15	810.91	804.98	
G9	799.94	790.64	803.49	796.45	805.7	806.64	798.56	806.04	799.94	
G10	795.57	786.15	798.84	791.08	800.83	802.77	794.85	802.38	795.57	
G11	790.47	778.79	792.74	785.93	796.95	800.16	788.37	798.34	790.47	
G12	784.44	772.14	789.03	779.23	789.81	793.57	782.5	793.63	784.44	
G13	777.29	763.83	782.0	775.3	785.93	788.87	777.29	786.93	777.29	
G14	770.2	758.3	777.29	763.94	779.56	782.05	769.48	780.89	770.2	
G15	765.16	749.16	767.99	758.52	772.86	777.68	761.45	773.69	765.16	
G16	755.14	741.68	762.39	750.49	764.5	770.59	754.86	768.26	755.14	
G17	747.83	733.04	753.31	741.46	756.52	762.95	746.83	761.23	747.83	
G18	736.48	721.97	746.11	731.44	748.77	757.69	740.08	752.87	736.48	
G19	726.67	711.44	736.2	724.4	740.52	747.05	728.44	745.17	726.67	
G20	717.37	701.47	728.28	712.83	731.32	739.3	718.53	734.7	717.37	
G21	708.62	690.18	716.48	702.8	723.52	731.21	708.73	725.4	708.62	
G22	695.49	681.65	707.34	692.28	713.27	723.57	700.2	713.77	695.49	
G23	685.47	667.69	696.38	681.59	702.19	712.49	689.29	706.57	685.47	
G24	673.34	656.34	687.63	669.79	692.39	703.52	678.21	694.22	673.34	
G25	663.81	643.05	675.61	657.94	682.81	692.06	666.53	684.69	663.81	
G26	648.8	628.81	664.2	645.48	672.51	683.75	655.28	671.18	648.8	
G27	634.68	611.48	651.46	632.52	661.43	670.9	642.44	659.16	634.68	
G28	618.34	595.58	636.23	616.3	647.48	660.93	626.21	647.48	618.34	
G29	602.56	578.91	621.0	599.96	632.3	646.98	612.92	633.19	602.56	
G30	584.73	561.08	604.72	582.29	617.57	634.13	595.53	615.8	584.73	
G31	567.06	541.75	586.39	563.9	600.46	616.57	576.64	600.79	567.06	
G32	547.68	523.92	570.16	546.29	584.17	600.95	559.31	583.12	547.68	
G33	529.23	504.98	551.94	528.74	565.29	583.56	540.64	566.06	529.23	
G34	510.9	486.37	534.22	508.91	545.63	565.73	522.15	546.24	510.9	
G35	491.52	465.27	514.67	489.47	526.58	549.01	503.37	526.58	491.52	
G36	471.69	446.55	494.51	470.64	507.25	528.63	483.93	509.02	471.69	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

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G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800 Goniophotometer

Humidity: 60

Test Distance: 6.66 m

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

GammaC	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	453.25	426.83	475.96	451.26	489.41	509.52	464.88	490.36	453.25	
G38	434.36	406.95	456.13	431.1	469.37	492.4	445.11	469.86	434.36	
G39	412.77	386.74	436.08	411.27	449.26	472.41	425.0	450.76	412.77	
G40	393.55	367.13	417.64	392.05	429.1	452.75	405.4	431.15	393.55	
G41	372.72	347.19	396.98	372.28	410.27	432.2	384.85	411.21	372.72	
G42	352.84	328.14	376.93	352.4	389.17	413.71	366.08	390.45	352.84	
G43	333.85	308.98	356.11	332.79	370.4	392.83	345.53	371.89	333.85	
G44	313.13	290.26	338.05	314.35	350.4	373.28	325.7	351.73	313.13	
G45	295.47	271.87	318.67	295.19	331.3	354.06	306.98	332.68	295.47	
G46	275.69	253.87	299.29	275.92	311.03	333.9	289.15	313.02	275.69	
G47	258.03	236.04	279.79	257.75	292.59	314.57	270.16	293.69	258.03	
G48	239.97	218.93	261.96	240.64	273.98	295.91	252.6	275.42	239.97	
G49	222.86	201.98	244.35	222.75	256.09	276.97	234.49	257.14	222.86	
G50	205.69	185.86	226.62	205.3	238.42	259.36	217.38	239.75	205.69	
G51	189.08	169.86	209.84	188.91	222.36	241.8	200.54	222.86	189.08	
G52	173.18	155.35	194.12	173.9	205.47	224.24	184.98	206.41	173.18	
G53	158.67	141.67	178.11	159.56	189.3	207.07	169.47	190.13	158.67	
G54	144.33	127.77	163.16	144.83	173.62	191.46	155.51	174.4	144.33	
G55	130.48	115.14	148.81	131.09	159.5	175.45	141.0	160.11	130.48	
G56	117.24	103.62	135.58	118.85	144.94	160.83	127.82	145.71	117.24	
G57	105.78	92.54	122.78	106.78	131.87	146.65	115.42	132.47	105.78	
G58	94.54	82.52	110.71	95.31	119.35	133.69	104.17	119.9	94.54	
G59	84.57	73.16	99.25	85.34	107.72	120.9	93.15	108.0	84.57	
G60	75.1	65.41	88.89	75.76	96.42	108.88	82.91	96.92	75.1	
G61	67.07	57.71	79.58	66.9	86.89	97.92	73.88	87.06	67.07	
G62	59.98	51.89	71.11	59.31	77.15	88.11	65.41	77.87	59.98	
G63	53.61	47.85	63.52	52.89	69.39	78.81	57.82	69.78	53.61	
G64	49.35	45.03	57.65	48.68	62.14	70.45	52.0	62.86	49.35	
G65	46.52	42.26	53.39	45.36	56.66	63.08	47.8	56.99	46.52	
G66	43.7	39.99	50.45	42.7	52.67	57.43	45.19	53.06	43.7	
G67	40.87	37.22	47.19	40.04	49.79	53.5	42.37	50.23	40.87	
G68	38.27	34.56	44.42	37.44	46.69	50.34	39.71	47.24	38.27	
G69	35.89	32.18	41.81	34.95	44.14	47.41	37.16	44.31	35.89	
G70	33.28	30.07	38.99	32.68	41.09	44.75	35.06	41.65	33.28	
G71	30.96	27.58	36.55	30.35	38.49	41.92	32.29	39.1	30.96	
G72	28.69	25.42	34.17	27.86	36.05	39.1	29.85	36.33	28.69	
G73	26.25	23.37	31.73	25.92	33.56	36.5	27.53	33.89	26.25	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

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G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800 Goniophotometer

Humidity: 60

Test Distance: 6.66 m

Remarks:

Report No.:

Test Time: 2023/7/14 14:13:10

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

[illegible]

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2023/7/14 14:13:10

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800 Goniophotometer

Humidity: 60

Test Distance: 6.66 m

Remarks: