

Report No.: IBDL240CT120-15W

Test Time: 2023/7/29 14:37:26

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBDL240CT120-15W
Lamp Type:
Luminous Width: 80 mm
Luminous Length: 80 mm
Luminous Height: 80 mm

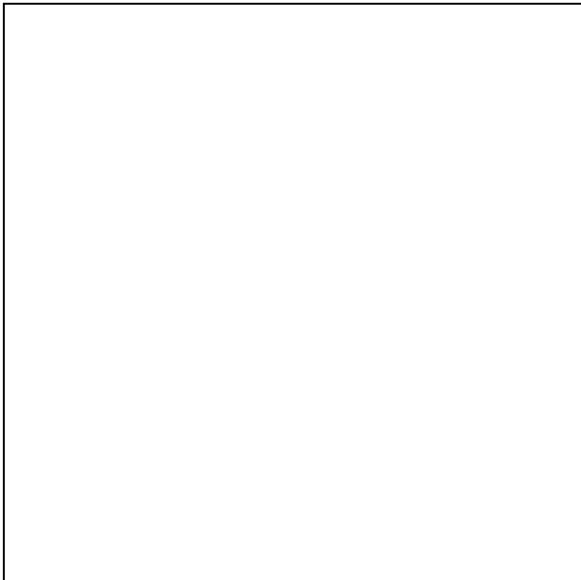
Voltage(V): 219.80 V
Current(A): 0.0730 A
Power(W): 15.72 W
Power Factor: 0.9680
Lamp Luminous Flux: 1767.37

Photometric Results

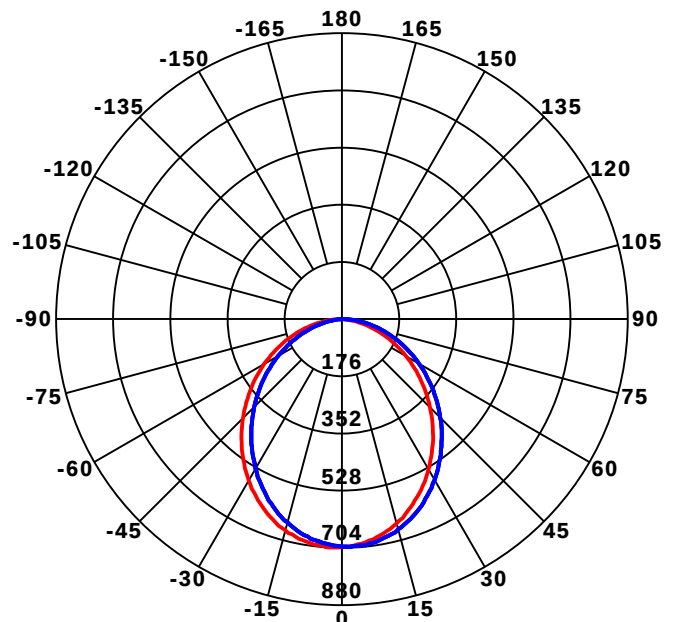
CIE Class: Direct
Luminaire Luminous Flux: 1767.374 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 112.43 lm/W
Beam Angle(50%) C0-180,C90-270: 100.7,100.6
Field Angle(10%) C0-180,C90-270: 158.1,158.1
S/MH C0-180,C90-270: 1.155,1.155

Max. Intensity: 704.15 cd
Max.Intensity Angle: C=180 Gamma=3
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 701.88 cd
Effective Luminous Flux: 1729.96 lm
ERP(ϕ use)(120deg): 1425.29 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



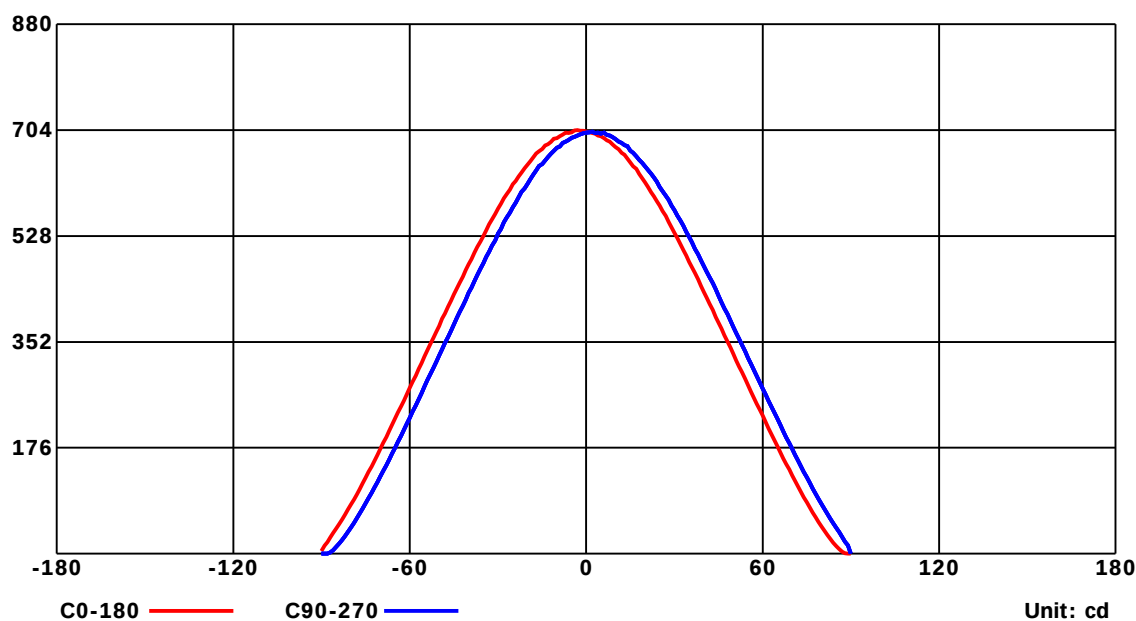
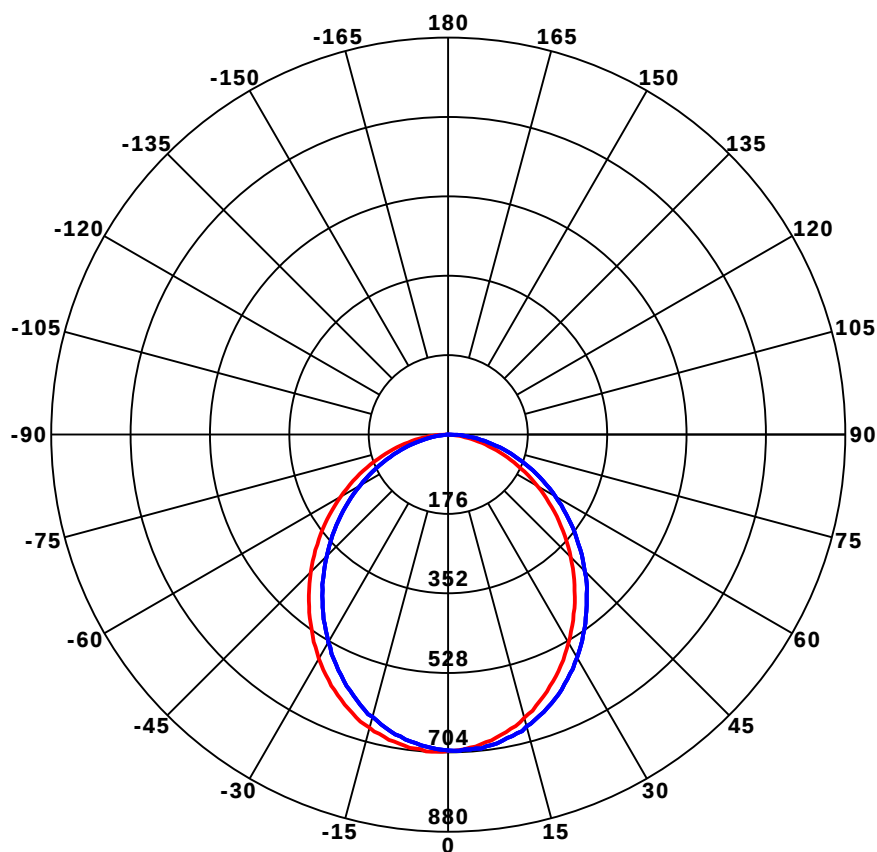
Beam Angle(50%) C0-180,C90-270: 100.7 deg,100.6 deg

C0-180 — C90-270 —

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2023/7/29 14:37:26

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

Luminous Intensity Distribution Curve



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2023/7/29 14:37:26

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

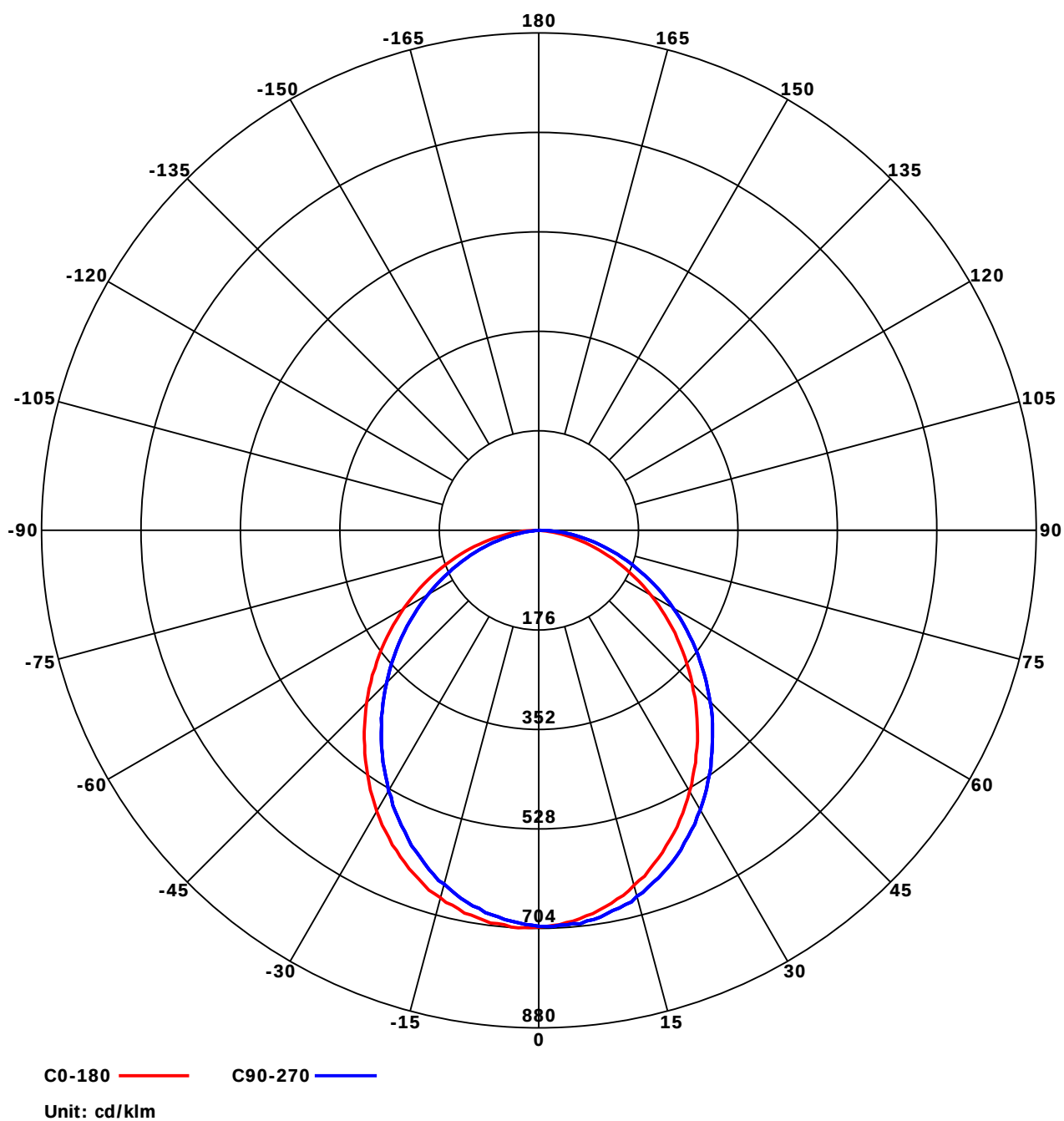
Test System: Huipu CPM-1800 Goniophotometer

Humidity: 60

Test Distance: 6.66 m

Remarks:

Luminous Intensity Distribution Curve



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2023/7/29 14:37:26

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800 Goniophotometer

Humidity: 60

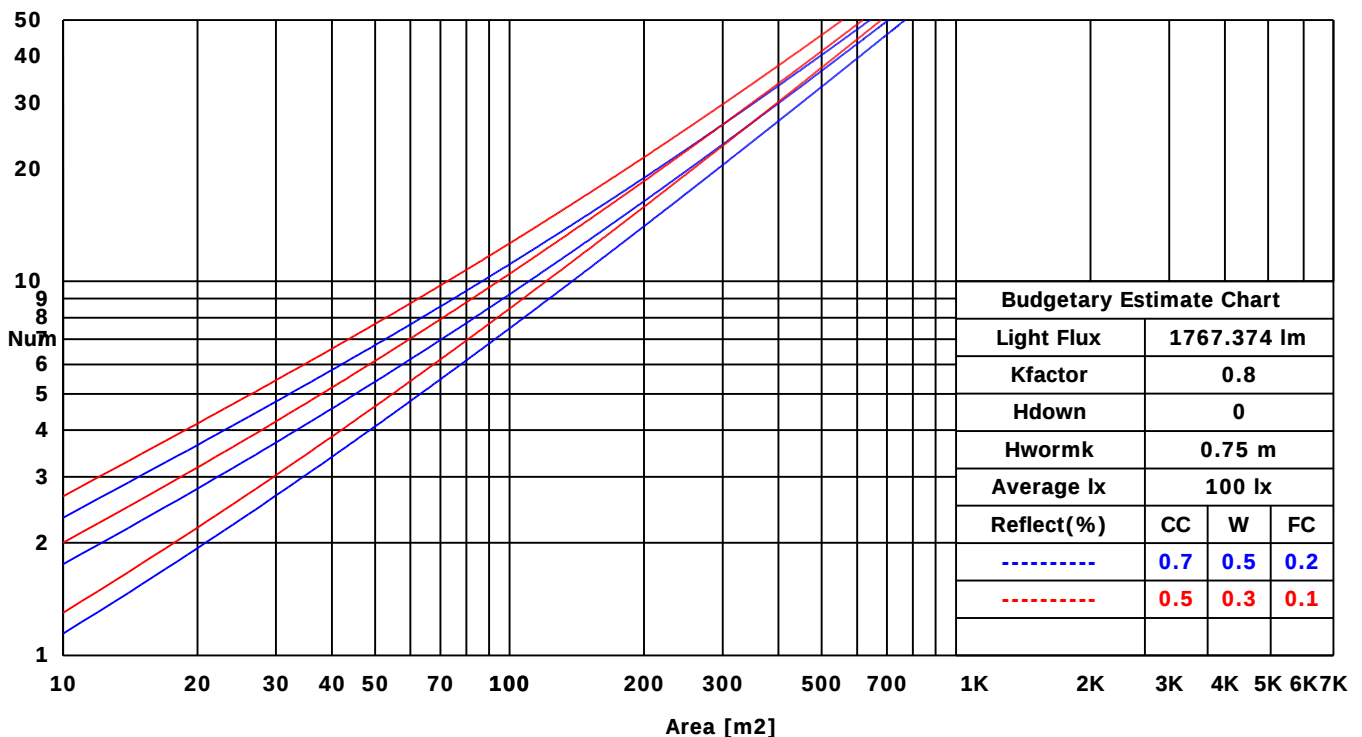
Test Distance: 6.66 m

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	1.07	1.05	1.04	1.05	1.04	1.02	1.02	1.00	0.98	0.97	0.95	0.93	0.90	0.88	0.86	0.81
2	0.95	0.93	0.92	0.94	0.92	0.90	0.92	0.89	0.86	0.88	0.85	0.82	0.83	0.79	0.76	0.72
3	0.85	0.83	0.81	0.85	0.82	0.80	0.83	0.79	0.76	0.80	0.76	0.73	0.76	0.72	0.68	0.64
4	0.77	0.74	0.73	0.77	0.74	0.71	0.75	0.71	0.68	0.73	0.69	0.65	0.70	0.65	0.61	0.57
5	0.70	0.67	0.66	0.70	0.66	0.64	0.69	0.65	0.62	0.67	0.62	0.59	0.65	0.60	0.55	0.51
6	0.64	0.61	0.60	0.64	0.61	0.59	0.63	0.59	0.56	0.62	0.57	0.53	0.61	0.55	0.50	0.47
7	0.58	0.56	0.55	0.59	0.56	0.54	0.58	0.54	0.51	0.58	0.53	0.49	0.57	0.51	0.46	0.43
8	0.54	0.52	0.50	0.54	0.51	0.49	0.54	0.50	0.47	0.54	0.49	0.45	0.53	0.47	0.43	0.39
9	0.50	0.48	0.47	0.50	0.48	0.46	0.51	0.47	0.44	0.51	0.45	0.42	0.50	0.44	0.40	0.37
10	0.47	0.45	0.44	0.47	0.44	0.43	0.48	0.44	0.41	0.48	0.43	0.39	0.47	0.41	0.37	0.34

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2023/7/29 14:37:26

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

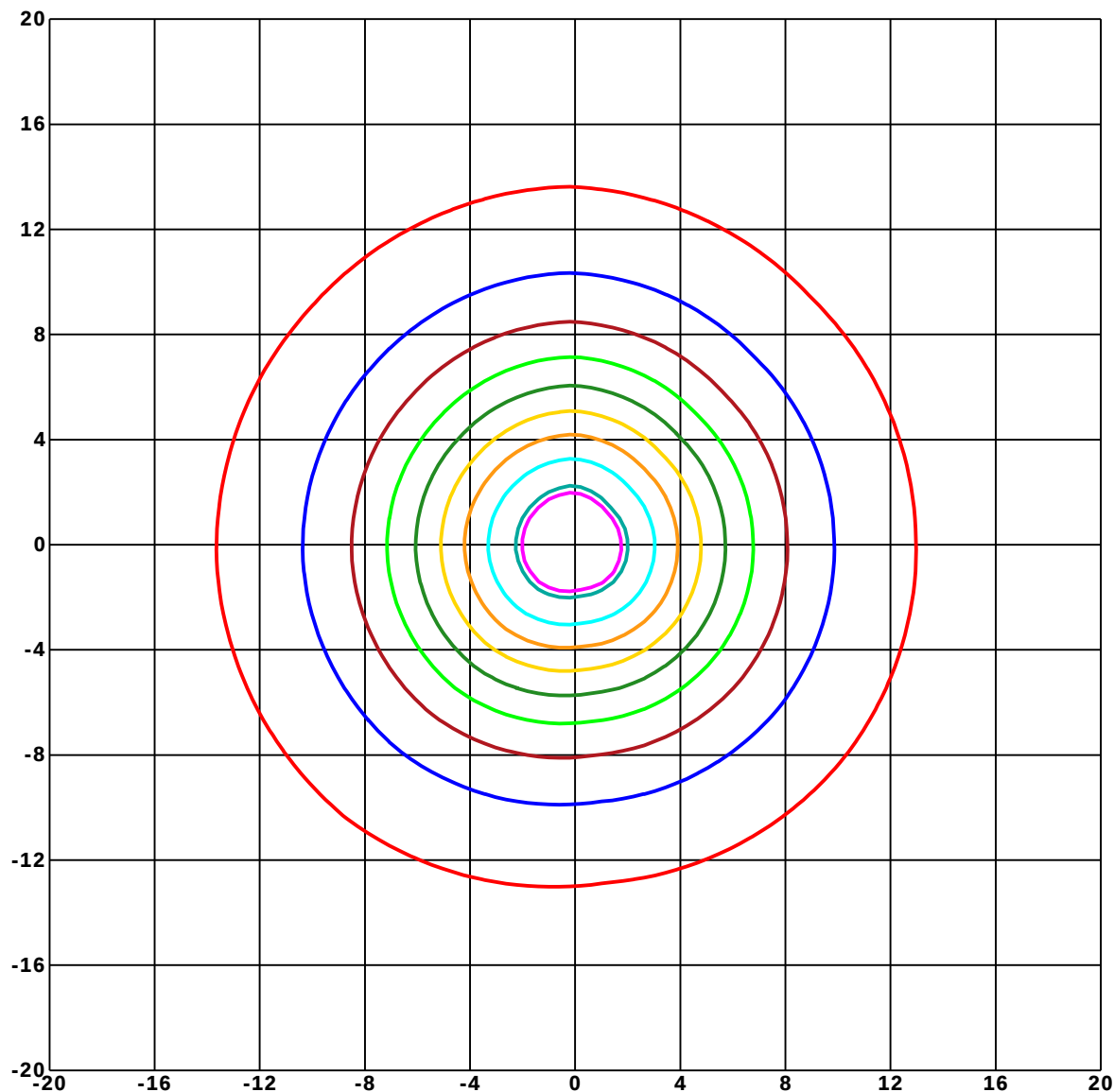
Test System: Huipu CPM-1800 Goniophotometer

Humidity: 60

Test Distance: 6.66 m

Remarks:

ISOLX DIAGRAM



Unit of illumination:lx

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

6.466(1%E_{max})

6.325(1%E_{max})

5.622(1%E_{max})

4.92(1%E_{max})

4.217(1%E_{max})

3.514(0%E_{max})

2.811(0%E_{max})

2.108(0%E_{max})

1.406(0%E_{max})

0.703(0%E_{max})

C Range: 0 - 360 Deg

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Temperature: 25

Operators: QC01

Test Date: 2023/7/29 14:37:26

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800 Goniophotometer

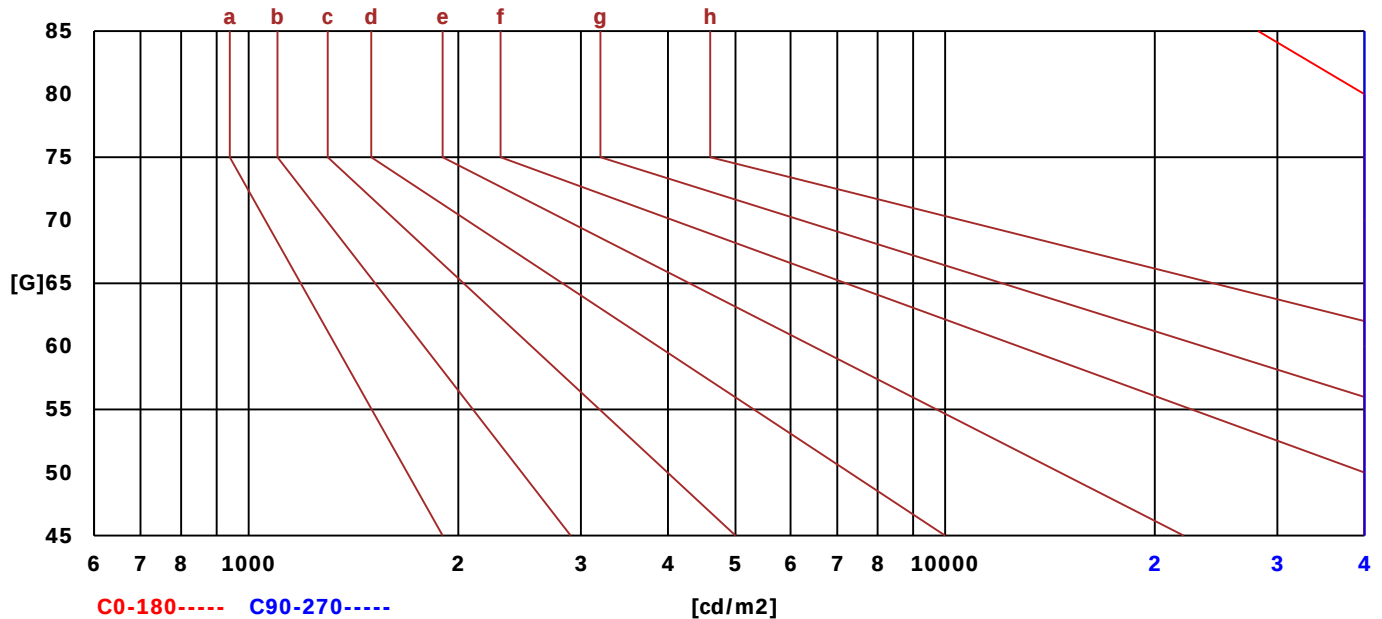
Humidity: 60

Test Distance: 6.66 m

Remarks:

BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	85124	81243	77114	72494	67433	61297	53850	44062	28150
C90	93004	89976	86503	83527	79831	76130	71978	68368	67194
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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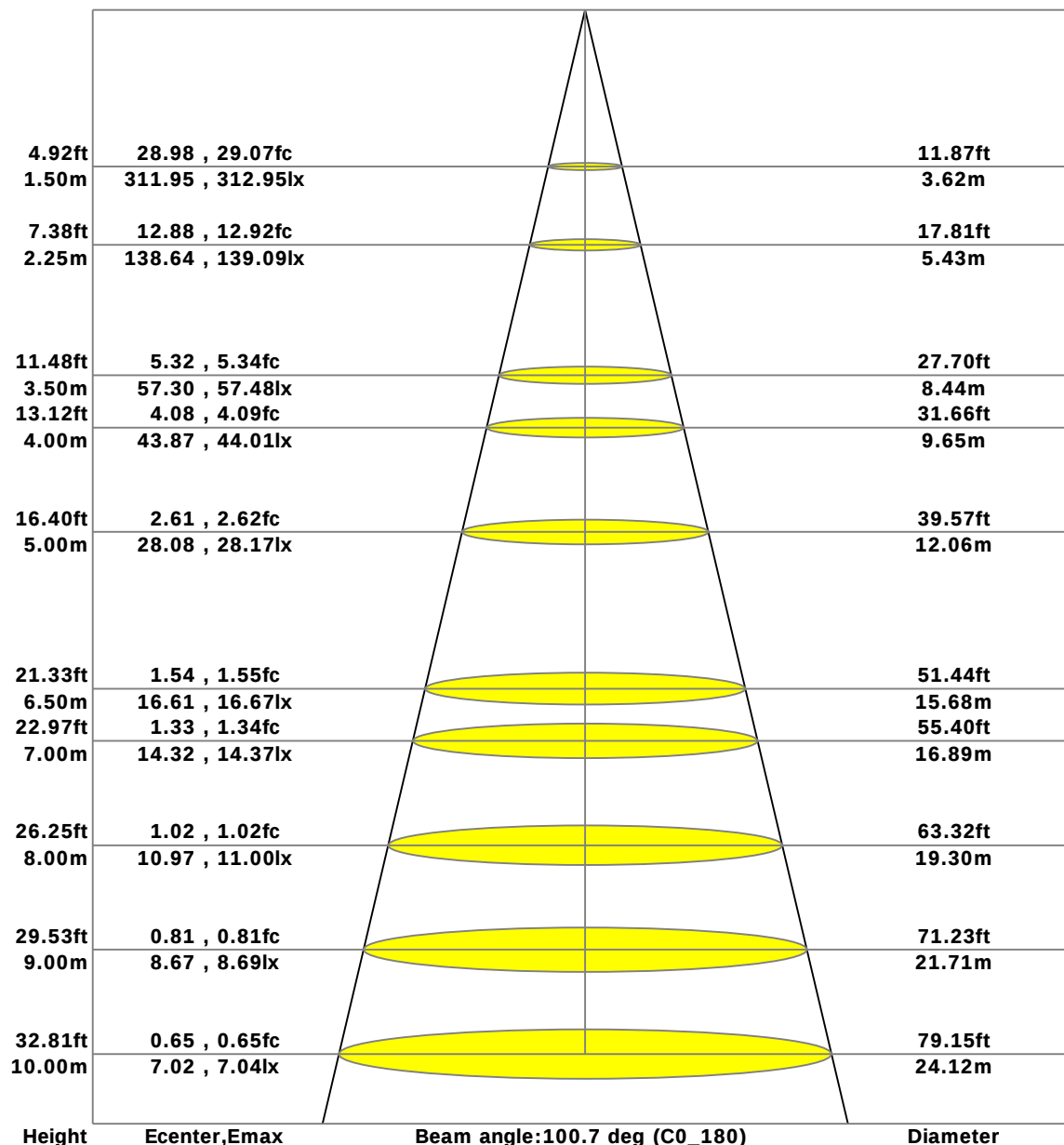
Test System: Huipu CPM-1800 Goniophotometer

Humidity: 60

Test Distance: 6.66 m

Remarks:

LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2023/7/29 14:37:26

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800 Goniophotometer

Humidity: 60

Test Distance: 6.66 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	24.69	24.77	24.89	24.96	25.20	25.11	25.19	25.31	25.38	25.62
	3H	24.83	24.90	25.03	25.09	25.34	25.20	25.27	25.41	25.46	25.71
	4H	24.84	24.91	25.05	25.11	25.36	25.20	25.27	25.41	25.47	25.72
	6H	24.83	24.90	25.05	25.10	25.35	25.18	25.25	25.39	25.45	25.70
	8H	24.81	24.88	25.03	25.09	25.34	25.16	25.23	25.38	25.43	25.69
	12H	24.80	24.87	25.02	25.07	25.33	25.14	25.21	25.37	25.42	25.67
4H	2H	26.80	26.88	27.02	27.07	27.32	27.70	27.77	27.91	27.96	28.21
	3H	27.06	27.13	27.29	27.34	27.59	27.89	27.96	28.12	28.17	28.42
	4H	27.12	27.19	27.35	27.40	27.66	27.93	27.99	28.16	28.20	28.46
	6H	27.14	27.20	27.38	27.42	27.69	27.92	27.98	28.16	28.20	28.46
	8H	27.13	27.19	27.38	27.42	27.68	27.90	27.96	28.15	28.19	28.45
	12H	27.12	27.17	27.37	27.40	27.67	27.88	27.94	28.13	28.17	28.44
8H	4H	27.22	27.29	27.44	27.49	27.74	28.50	28.56	28.72	28.77	29.02
	6H	27.73	27.78	27.98	28.02	28.29	28.93	28.98	29.19	29.22	29.50
	8H	27.74	27.78	28.00	28.03	28.30	28.93	28.97	29.19	29.22	29.49
	12H	27.73	27.77	28.00	28.03	28.31	28.91	28.95	29.18	29.20	29.48
12H	4H	27.72	27.77	27.97	28.01	28.28	29.14	29.20	29.39	29.43	29.70
	6H	27.79	27.84	28.05	28.08	28.36	29.20	29.25	29.47	29.49	29.77

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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:

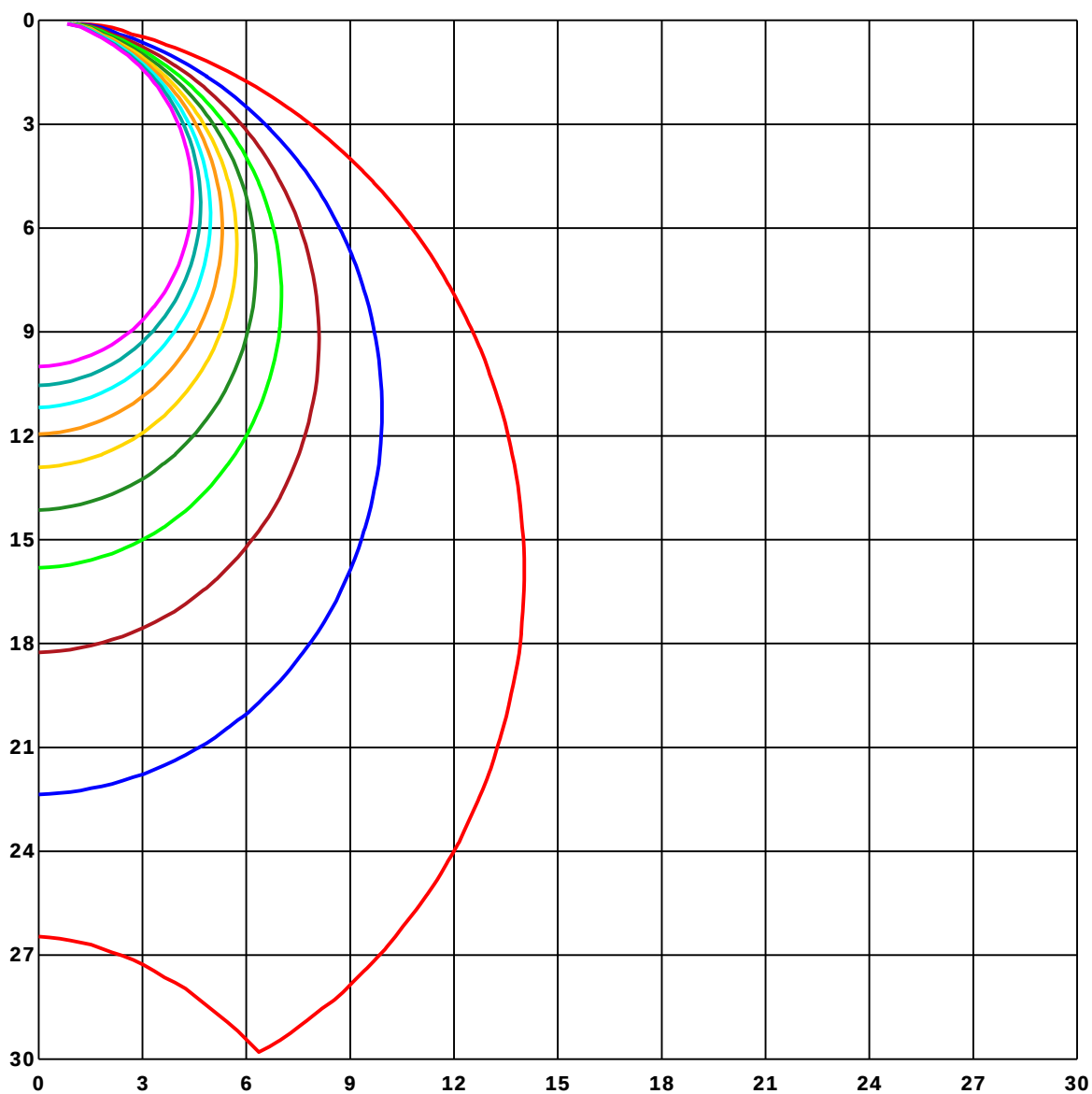
ZONAL LUMINOUS FLUX TABLE

[illegible]

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2023/7/29 14:37:26

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

SPACE ISOLX DIAGRAM



Unit of illumination:lx

7.021
6.319
5.617
4.915
4.213

3.51
2.808
2.106
1.404
0.702

C Range: 0 - 360 Deg

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Test Date: 2023/7/29 14:37:26

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800 Goniophotometer

Humidity: 60

Test Distance: 6.66 m

Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma/C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	701.88	698.2	700.15	702.19	701.88	698.2	700.15	702.19	701.88	
G1	700.95	697.18	700.69	703.12	702.95	698.73	698.69	701.53	700.95	
G2	699.53	696.38	701.4	702.99	703.21	697.8	697.49	702.1	699.53	
G3	698.33	695.32	699.27	701.62	704.15	700.2	695.32	699.89	698.33	
G4	695.27	692.35	699.71	701.93	703.61	697.67	693.19	698.11	695.27	
G5	693.9	690.53	698.38	700.86	700.29	698.29	691.24	693.72	693.9	
G6	690.71	687.87	699.71	700.29	699.49	696.12	687.42	692.75	690.71	
G7	686.89	685.29	696.03	695.94	699.98	695.27	685.25	689.91	686.89	
G8	684.98	680.81	695.14	695.72	696.56	692.3	682.72	687.02	684.98	
G9	680.1	678.2	692.7	693.14	693.81	690.0	677.0	681.39	680.1	
G10	675.98	674.07	689.11	690.26	691.06	687.69	674.83	679.0	675.98	
G11	672.03	669.19	685.03	685.38	689.64	685.03	669.81	674.12	672.03	
G12	666.66	663.56	683.03	682.85	684.63	679.97	664.98	669.46	666.66	
G13	663.03	660.37	679.35	678.42	680.5	677.27	659.43	664.98	663.03	
G14	657.08	653.0	677.35	674.52	678.55	671.72	653.54	659.92	657.08	
G15	650.25	648.88	669.95	669.02	672.61	669.33	647.68	654.87	650.25	
G16	643.87	642.98	666.4	665.56	669.06	663.07	644.58	649.37	643.87	
G17	640.01	636.81	660.32	660.68	665.38	659.43	636.95	641.29	640.01	
G18	631.36	630.6	654.91	654.69	658.99	652.65	630.25	635.26	631.36	
G19	624.26	623.33	650.16	647.19	652.34	647.86	622.58	629.32	624.26	
G20	617.56	615.79	644.09	641.52	646.53	641.34	614.86	621.87	617.56	
G21	610.11	609.05	638.14	634.64	641.12	635.48	607.58	614.28	610.11	
G22	601.15	601.95	632.02	628.83	633.66	627.63	601.64	606.56	601.15	
G23	594.23	593.48	625.37	621.95	627.23	622.04	592.32	598.8	594.23	
G24	586.25	585.58	618.67	614.28	619.38	615.35	583.5	590.73	586.25	
G25	578.71	576.8	609.53	606.74	614.06	607.23	575.96	583.14	578.71	
G26	569.39	568.2	602.53	599.69	605.1	599.24	566.91	574.01	569.39	
G27	561.59	560.03	594.94	590.02	597.56	592.41	558.66	567.13	561.59	
G28	551.47	550.67	588.42	582.88	590.64	583.63	550.9	557.99	551.47	
G29	542.6	543.84	578.4	574.54	581.81	577.11	539.5	547.79	542.6	
G30	533.51	532.98	571.12	566.15	573.56	567.49	532.05	539.85	533.51	
G31	524.68	523.4	562.21	557.02	564.65	558.79	520.73	530.18	524.68	
G32	514.17	514.17	553.65	548.94	555.6	551.21	511.95	520.73	514.17	
G33	504.54	504.68	544.95	538.61	547.84	541.18	502.15	510.84	504.54	
G34	495.76	495.9	534.97	530.94	537.5	531.07	493.68	502.02	495.76	
G35	484.76	486.14	526.63	519.85	528.14	523.8	482.77	490.93	484.76	
G36	475.67	476.16	517.54	511.2	518.74	514.26	473.63	481.08	475.67	

C Range: 0 - 360 Deg

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Operators: QC01

Test Date: 2023/7/29 14:37:26

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800 Goniophotometer

Humidity: 60

Test Distance: 6.66 m

Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

GammaC	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	466.75	466.31	506.94	500.69	510.0	504.15	463.07	471.68	466.75	
G38	456.29	456.15	497.89	491.55	500.2	494.61	453.27	461.34	456.29	
G39	445.15	446.35	487.56	482.19	489.64	484.27	442.58	451.81	445.15	
G40	435.04	436.81	477.98	471.85	481.13	474.6	433.98	442.85	435.04	
G41	425.37	427.32	468.31	461.79	471.41	465.29	422.27	431.49	425.37	
G42	415.3	416.41	459.21	453.05	460.54	455.75	412.15	421.29	415.3	
G43	405.1	406.34	449.68	442.27	450.56	444.98	402.04	410.91	405.1	
G44	393.52	396.67	439.52	432.82	440.98	434.86	392.06	400.93	393.52	
G45	383.72	385.23	428.43	420.89	431.0	425.1	381.01	390.2	383.72	
G46	374.1	376.22	417.96	411.53	420.4	414.55	370.5	380.48	374.1	
G47	363.18	365.18	407.98	400.62	410.73	404.88	360.66	369.22	363.18	
G48	352.54	355.16	398.45	391.31	399.24	393.66	350.19	359.06	352.54	
G49	342.69	345.13	387.53	380.53	390.6	384.12	339.54	348.59	342.69	
G50	332.22	334.22	376.93	370.15	378.49	373.03	329.34	338.57	332.22	
G51	321.22	323.66	366.91	359.24	369.08	364.03	318.96	328.14	321.22	
G52	310.89	313.86	357.46	350.1	358.62	353.2	308.8	317.85	310.89	
G53	301.8	303.57	346.86	339.01	348.37	343.09	298.16	307.3	301.8	
G54	290.53	293.15	336.35	328.76	338.08	332.22	288.31	297.01	290.53	
G55	280.06	283.08	325.26	317.54	327.92	321.8	277.71	286.4	280.06	
G56	269.37	272.48	315.72	307.83	316.92	310.84	266.62	276.38	269.37	
G57	259.17	262.1	305.43	297.89	307.03	301.57	256.73	265.82	259.17	
G58	249.41	251.81	295.45	287.11	295.98	290.62	246.66	256.2	249.41	
G59	239.3	242.49	284.54	277.36	286.0	280.28	236.5	245.06	239.3	
G60	229.32	231.98	274.07	267.29	275.85	269.68	225.99	235.57	229.32	
G61	219.03	222.4	264.76	256.64	265.34	260.06	216.28	224.79	219.03	
G62	208.47	212.33	254.07	246.97	254.6	249.68	205.9	215.39	208.47	
G63	198.58	202.0	244.27	236.02	245.11	239.52	196.1	204.83	198.58	
G64	188.11	191.84	234.02	226.61	235.04	229.01	186.03	195.65	188.11	
G65	178.4	182.39	224.17	215.92	224.48	219.56	175.78	184.96	178.4	
G66	168.42	172.06	214.1	206.08	214.73	208.47	166.82	175.25	168.42	
G67	158.39	162.87	203.64	195.7	204.39	199.42	156.66	165.18	158.39	
G68	148.95	152.67	193.35	186.43	193.88	188.91	146.99	156.0	148.95	
G69	139.9	143.71	183.72	175.91	184.08	179.06	137.41	146.06	139.9	
G70	130.14	134.18	174.27	166.64	173.92	168.51	128.37	136.79	130.14	
G71	120.87	125.04	164.2	156.89	164.25	158.84	118.83	126.59	120.87	
G72	112.13	115.68	155.02	147.57	154.49	149.03	110.13	118.07	112.13	
G73	102.77	106.72	145.49	137.86	145.0	139.9	101.09	108.49	102.77	

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.: IBDL240CT120-15W

Test Time: 2023/7/29 14:37:26

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: 2023/7/29 14:37:26

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G Interval: 1.0 Deg

Test System: Huipu CPM-1800 Goniophotometer

Humidity: 60

Test Distance: 6.66 m

Remarks: