

Report No.:

Test Time: 2024/10/25 18:34:47

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP151CT095H114-60°-25W
Lamp Type:
Luminous Width: 80 mm
Luminous Length: 80 mm
Luminous Height: 70 mm

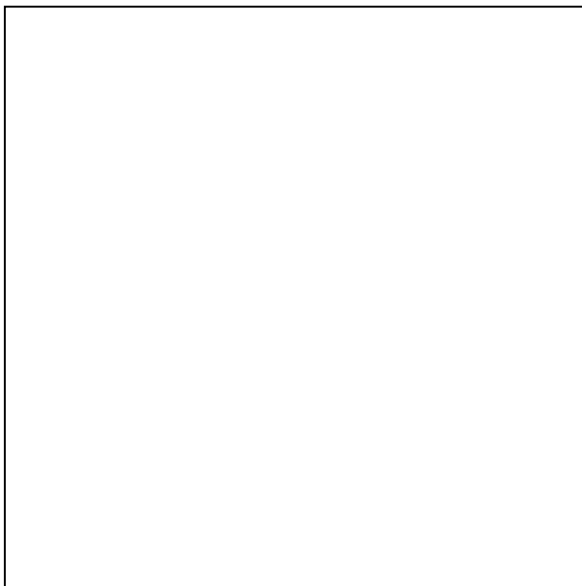
Voltage(V): 219.80 V
Current(A): 0.1160 A
Power(W): 25.20 W
Power Factor: 0.9800
Lamp Luminous Flux: 2206.65

Photometric Results

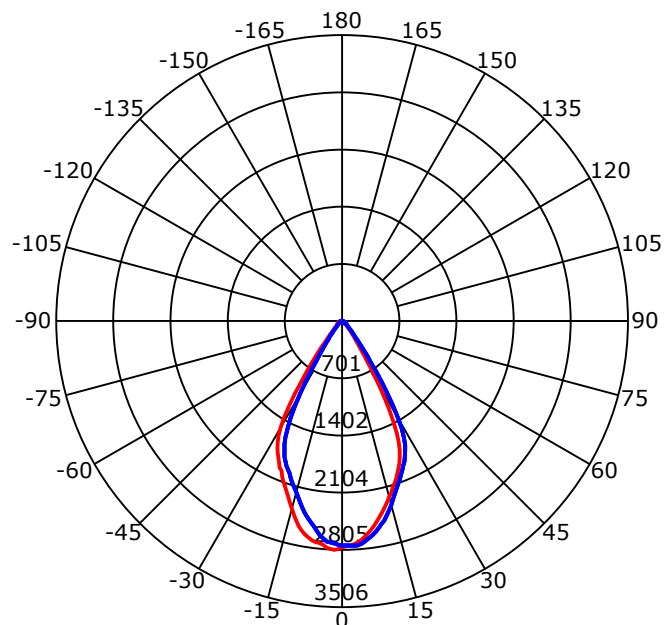
CIE Class: Direct
Luminaire Luminous Flux: 2206.645 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 87.57 lm/W
Beam Angle(50%) C0-180,C90-270: 57.7,57.7
Field Angle(10%) C0-180,C90-270: 76.4,76.6
S/MH C0-180,C90-270: 0.890,0.890

Max. Intensity: 2804.83 cd
Max.Intensity Angle: C=180 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 2775.05 cd
Effective Luminous Flux: 1994.00 lm
ERP(ϕ use)(120deg): 2164.32 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 57.7 deg,57.7 deg

C0-180 — C90-270 —

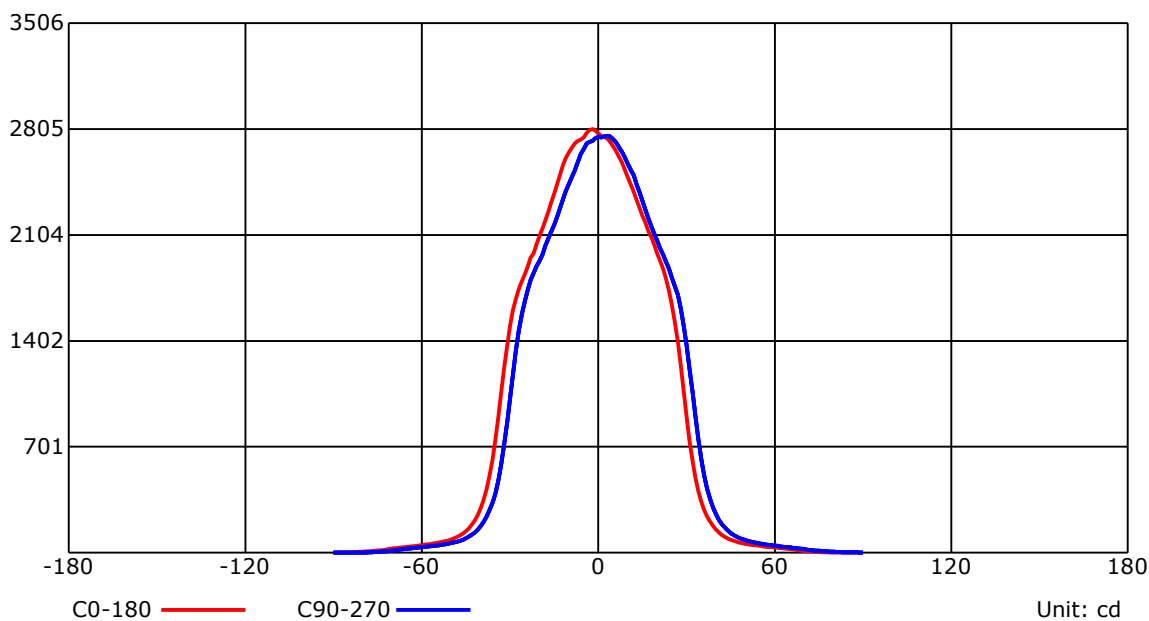
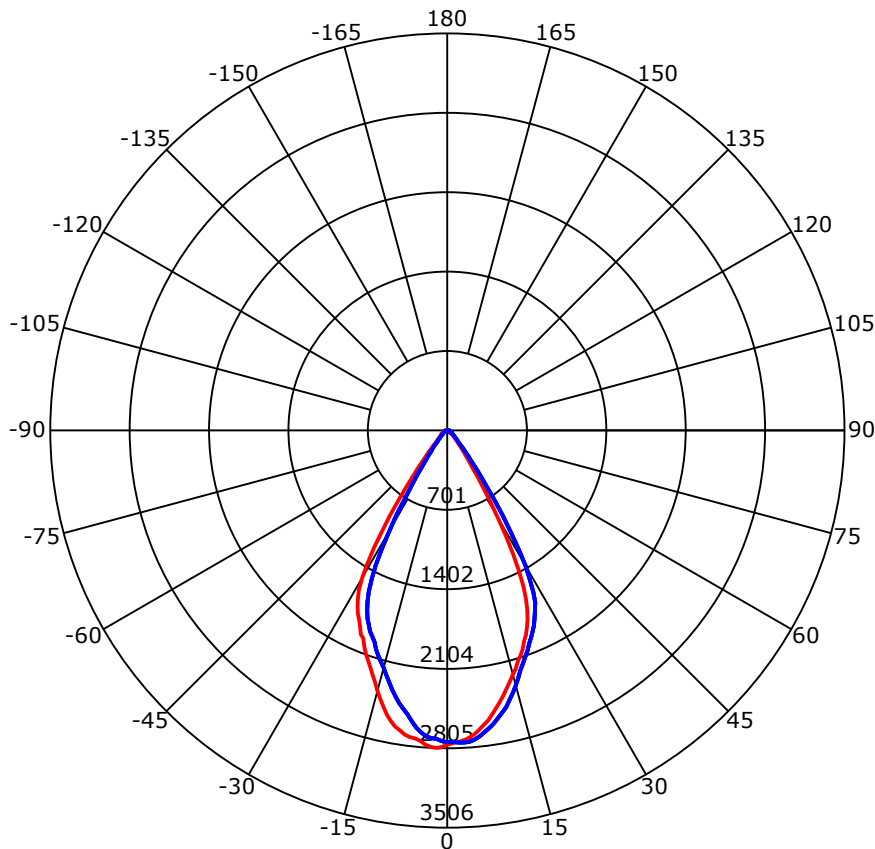
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/10/25 18:34:47

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

Report No.:

Test Time: 2024/10/25 18:34:47

Luminous Intensity Distribution Curve



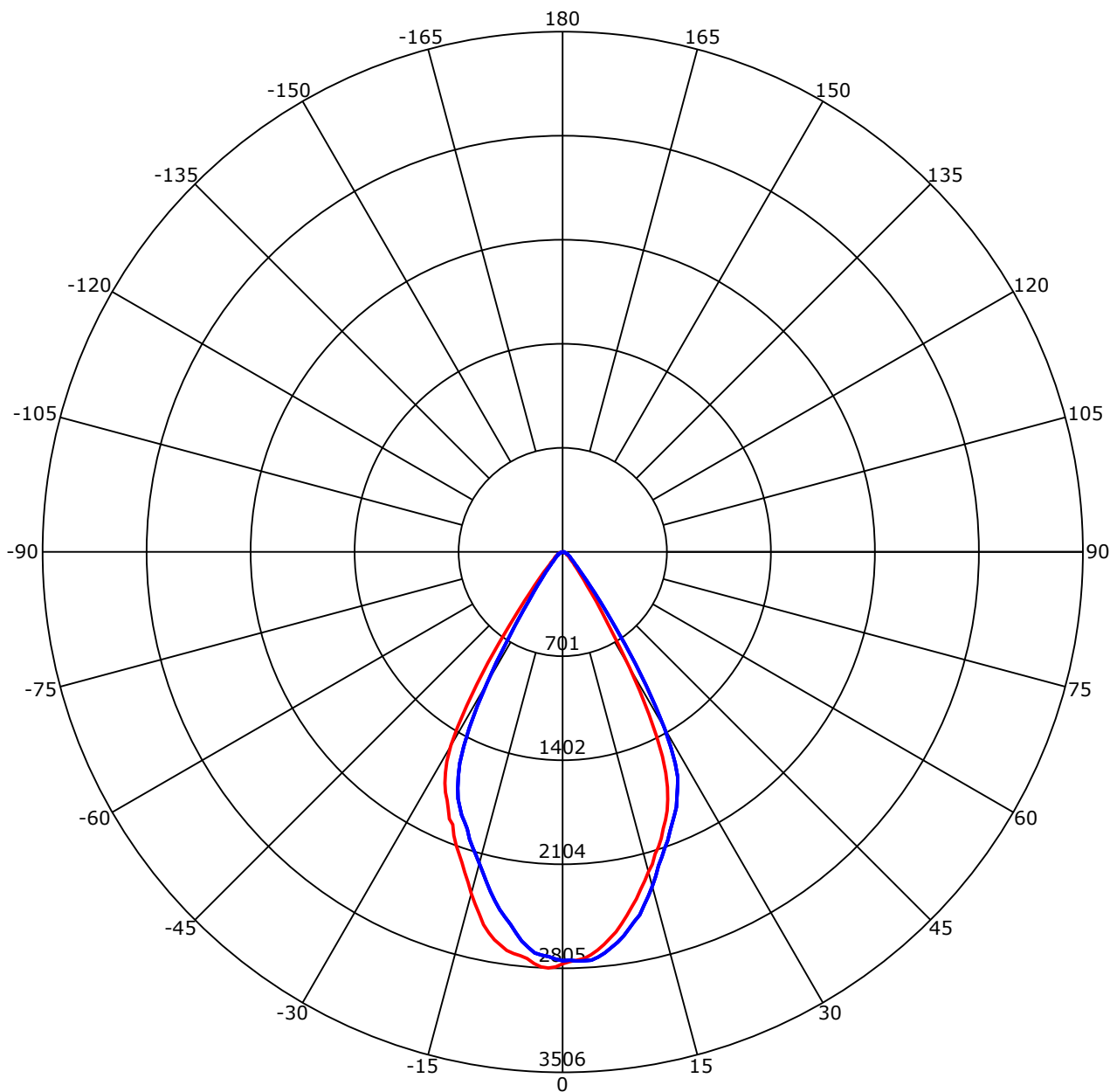
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/10/25 18:34:47

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

Report No.:

Test Time: 2024/10/25 18:34:47

Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

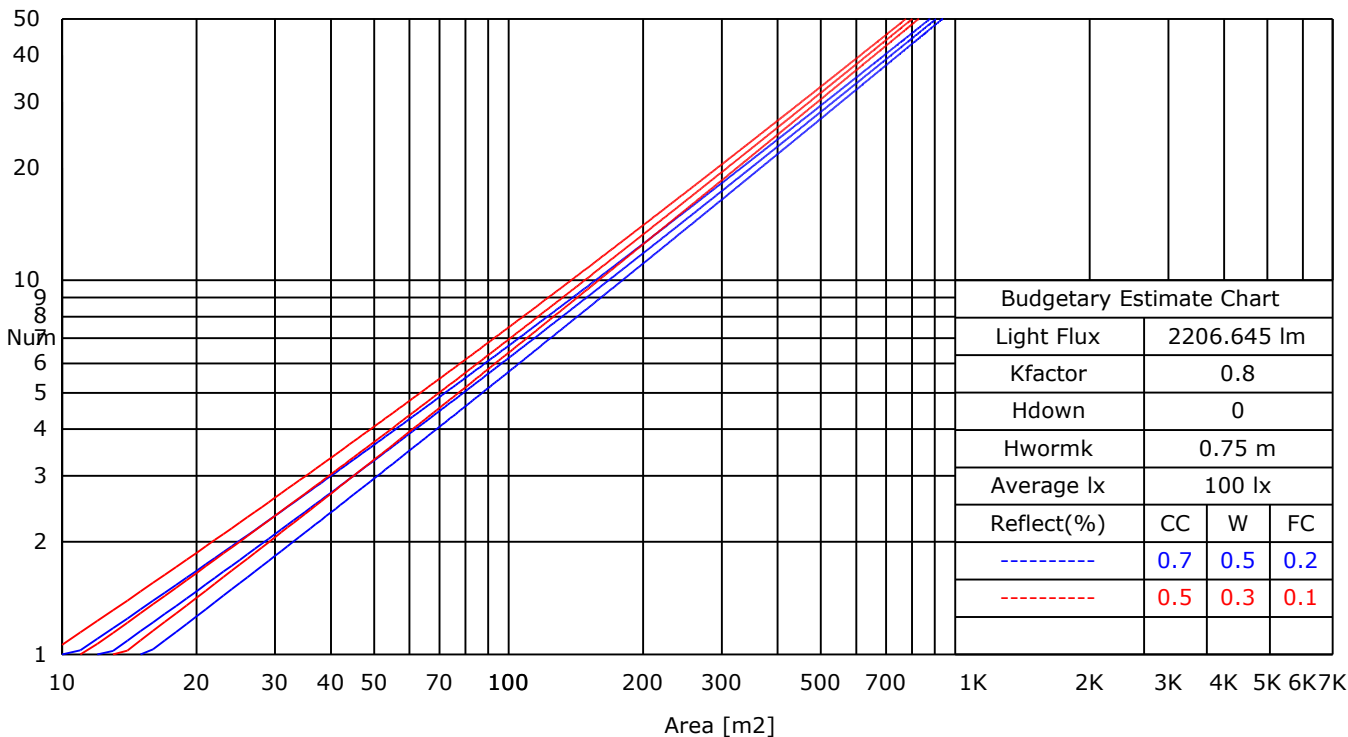
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/10/25 18:34:47

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 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	1.06	1.04	1.02	1.04	1.02	1.01	1.00	0.98	0.97	0.96	0.93	0.91	0.89	0.87	0.85	0.80
2	1.01	0.99	0.98	0.99	0.97	0.96	0.96	0.94	0.92	0.92	0.89	0.87	0.86	0.84	0.81	0.76
3	0.96	0.95	0.94	0.95	0.93	0.92	0.92	0.90	0.87	0.89	0.85	0.83	0.84	0.80	0.78	0.73
4	0.92	0.91	0.90	0.91	0.89	0.88	0.89	0.86	0.84	0.85	0.82	0.79	0.81	0.78	0.75	0.70
5	0.89	0.87	0.86	0.88	0.86	0.84	0.85	0.83	0.80	0.82	0.79	0.76	0.79	0.75	0.72	0.68
6	0.86	0.84	0.83	0.85	0.83	0.81	0.82	0.80	0.78	0.80	0.76	0.73	0.76	0.72	0.69	0.65
7	0.83	0.81	0.81	0.82	0.80	0.79	0.80	0.77	0.75	0.77	0.74	0.71	0.74	0.70	0.67	0.63
8	0.80	0.79	0.78	0.79	0.77	0.76	0.77	0.74	0.72	0.75	0.71	0.69	0.72	0.68	0.65	0.61
9	0.78	0.76	0.76	0.77	0.75	0.74	0.75	0.72	0.70	0.72	0.69	0.66	0.70	0.66	0.63	0.59
10	0.75	0.74	0.73	0.74	0.73	0.72	0.72	0.70	0.68	0.70	0.67	0.64	0.68	0.64	0.61	0.58

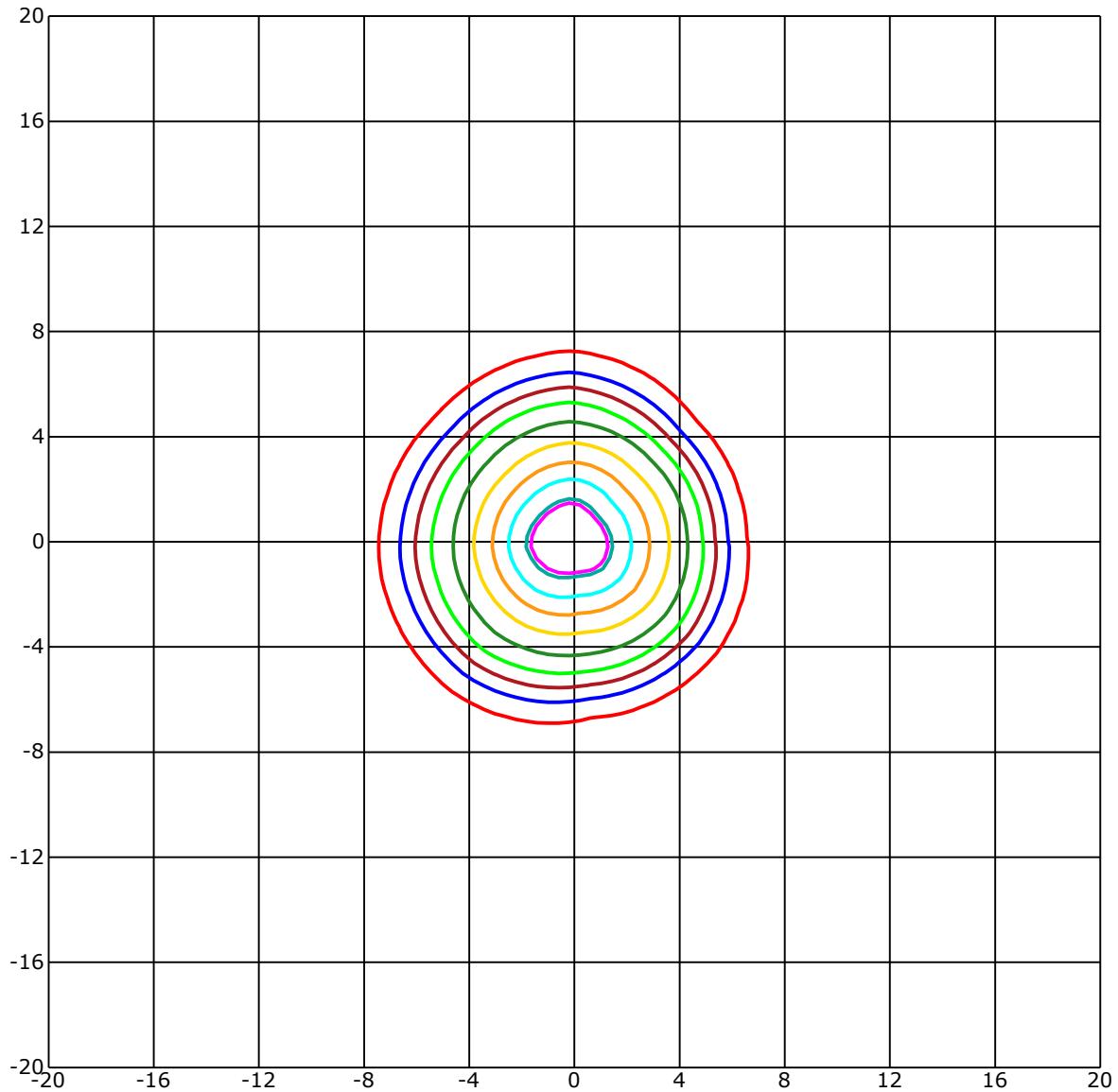
LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



Report No.:

Test Time: 2024/10/25 18:34:47

ISOLX DIAGRAM



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

25.757(92%Emax)	13.999(50%Emax)
25.197(90%Emax)	11.199(40%Emax)
22.398(80%Emax)	8.399(30%Emax)
19.598(70%Emax)	5.599(20%Emax)
16.798(60%Emax)	2.8(10%Emax)

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/10/25 18:34:47

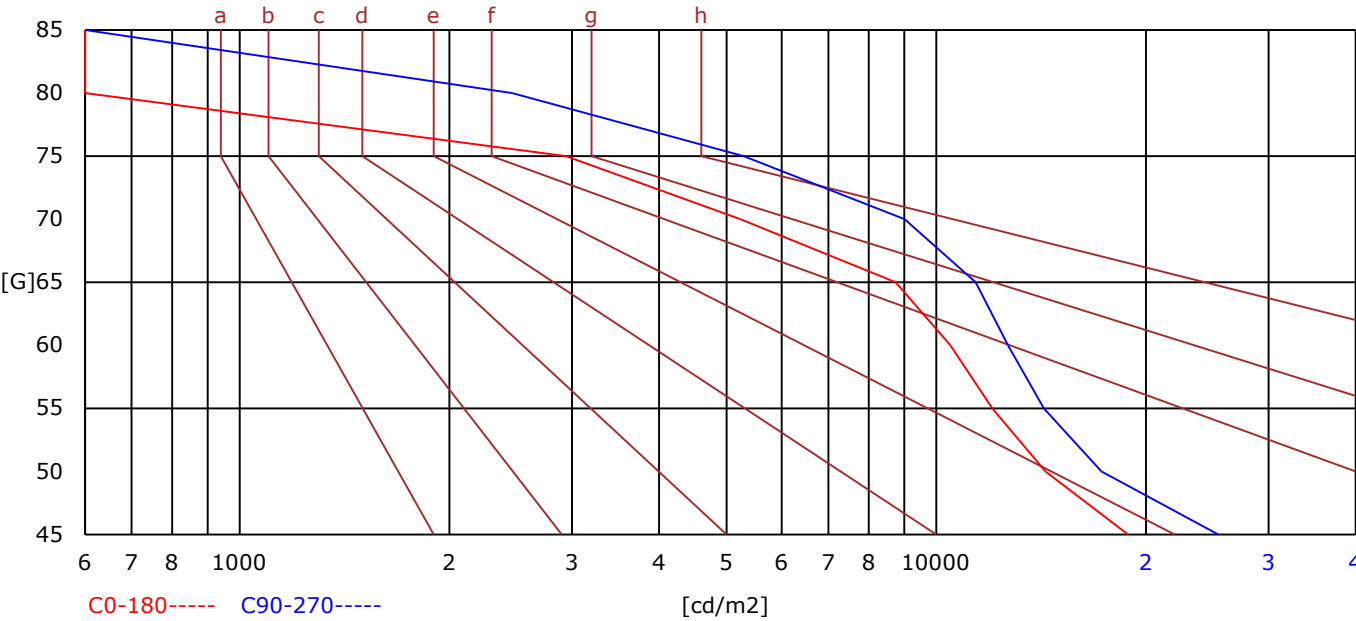
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

Report No.:

Test Time: 2024/10/25 18:34:47

BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	18856	14351	12040	10478	8745	5233	2940	125	0
C90	25404	17271	14276	12681	11385	9004	5292	2462	0
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



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/10/25 18:34:47

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

Height	Ecenter,Emax	Beam angle:57.7 deg (C0_180)	Diameter
4.92ft 1.50m	114.58 , 115.81fc 1233.36 , 1246.59lx		5.43ft 1.65m
7.38ft 2.25m	50.93 , 51.47fc 548.16 , 554.04lx		8.14ft 2.48m
11.48ft 3.50m	21.05 , 21.27fc 226.53 , 228.97lx		12.66ft 3.86m
13.12ft 4.00m	16.11 , 16.29fc 173.44 , 175.30lx		14.47ft 4.41m
16.40ft 5.00m	10.31 , 10.42fc 111.00 , 112.19lx		18.08ft 5.51m
21.33ft 6.50m	6.10 , 6.17fc 65.68 , 66.39lx		23.51ft 7.17m
22.97ft 7.00m	5.26 , 5.32fc 56.63 , 57.24lx		25.32ft 7.72m
26.25ft 8.00m	4.03 , 4.07fc 43.36 , 43.83lx		28.94ft 8.82m
29.53ft 9.00m	3.18 , 3.22fc 34.26 , 34.63lx		32.55ft 9.92m
32.81ft 10.00m	2.58 , 2.61fc 27.75 , 28.05lx		36.17ft 11.02m

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

Report No.:

Test Time: 2024/10/25 18:34:47

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	10.89	10.94	11.09	11.13	11.37	11.19	11.24	11.39	11.42	11.67
3H	10.91	10.96	11.12	11.15	11.40	11.19	11.24	11.39	11.43	11.68
4H	10.90	10.95	11.11	11.15	11.40	11.17	11.22	11.38	11.42	11.67
6H	10.88	10.93	11.10	11.14	11.39	11.15	11.20	11.37	11.41	11.66
8H	10.87	10.93	11.09	11.13	11.38	11.14	11.20	11.36	11.40	11.65
12H	10.86	10.92	11.09	11.12	11.38	11.13	11.19	11.36	11.39	11.65
4H 2H	11.25	11.30	11.46	11.50	11.75	11.85	11.90	12.06	12.09	12.34
3H	11.28	11.33	11.50	11.54	11.79	11.86	11.91	12.08	12.12	12.37
4H	11.27	11.32	11.50	11.53	11.79	11.84	11.89	12.07	12.10	12.36
6H	11.25	11.30	11.48	11.52	11.78	11.82	11.87	12.06	12.09	12.35
8H	11.23	11.28	11.48	11.51	11.77	11.81	11.85	12.05	12.08	12.34
12H	11.22	11.27	11.47	11.50	11.77	11.79	11.84	12.04	12.07	12.34
8H 4H	11.23	11.28	11.45	11.49	11.74	11.90	11.95	12.12	12.15	12.41
6H	11.21	11.26	11.47	11.50	11.77	11.87	11.92	12.13	12.15	12.43
8H	11.20	11.24	11.46	11.49	11.76	11.86	11.90	12.12	12.14	12.42
12H	11.18	11.22	11.45	11.48	11.76	11.84	11.88	12.11	12.13	12.41
12H 4H	11.23	11.27	11.47	11.50	11.77	11.90	11.95	12.15	12.18	12.45
6H	11.20	11.24	11.46	11.49	11.76	11.88	11.92	12.14	12.16	12.44

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/10/25 18:34:47

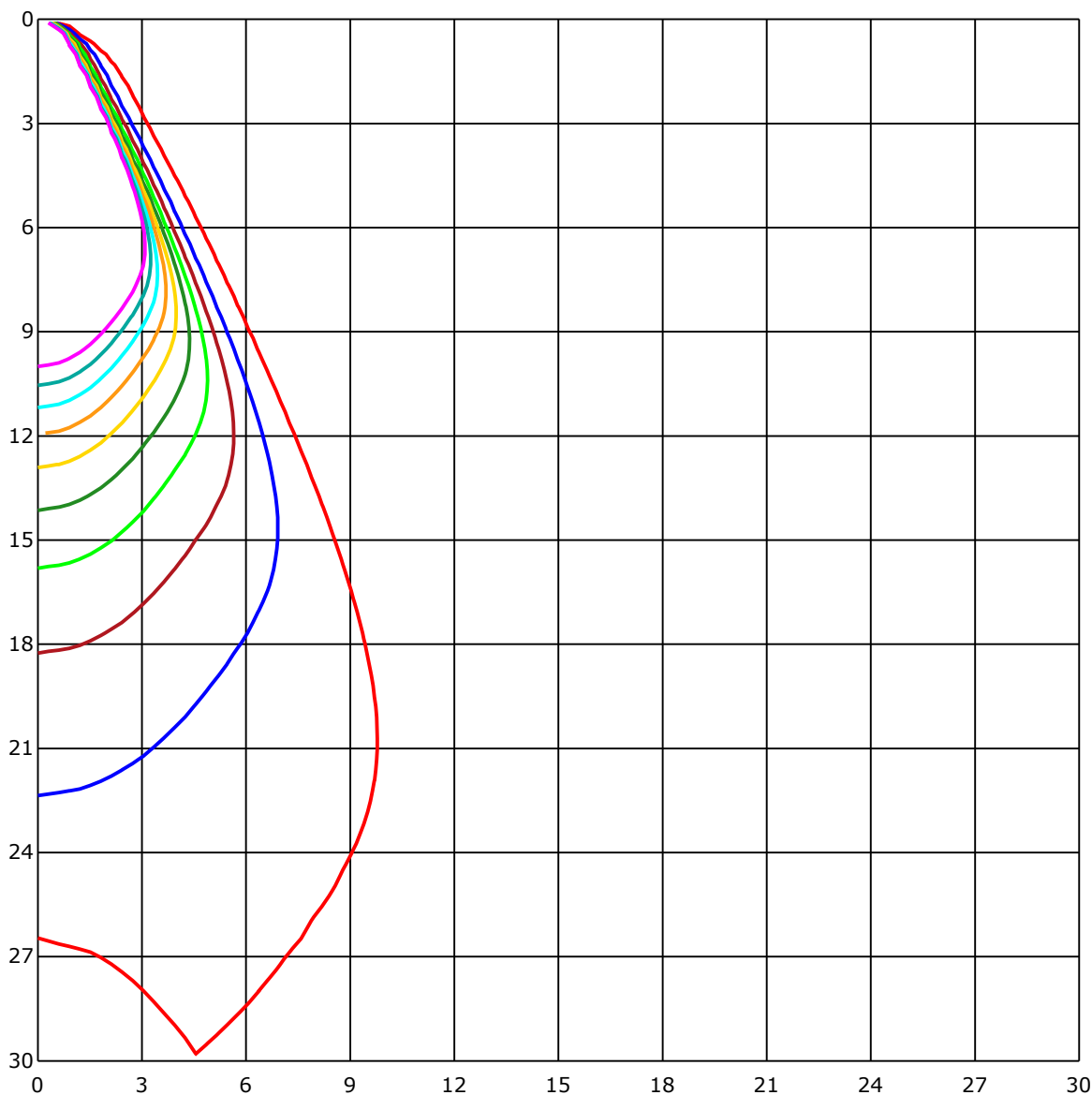
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

Report No.:

Test Time: 2024/10/25 18:34:47

SPACE ISOLX DIAGRAM



Unit of illumination:lx

27.753

24.978

22.203

19.427

16.652

13.877

11.101

8.326

5.551

2.775

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2024/10/25 18:34:47

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.81 m

Remarks:

Report No.:

Test Time: 2024/10/25 18:34:47

LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	2775.05	2731.27	2753.21	2769.26	2775.05	2731.27	2753.21	2769.26	2775.05	
G1	2760.4	2719.17	2750.85	2780.9	2796.02	2736.05	2743.47	2759.33	2760.4	
G2	2751.36	2709.34	2756.78	2779.27	2804.83	2735.4	2726.68	2771.58	2751.36	
G3	2742.91	2685.97	2758.17	2766.66	2798.61	2733.36	2719.31	2753.67	2742.91	
G4	2720.52	2669.5	2756.64	2747.97	2780.25	2716.57	2708.6	2735.36	2720.52	
G5	2693.11	2656.7	2738.83	2717.45	2750.01	2705.21	2673.77	2703.12	2693.11	
G6	2659.07	2624.05	2715.65	2700.34	2734.47	2685.92	2636.81	2684.81	2659.07	
G7	2620.71	2588.62	2685.13	2677.57	2725.8	2668.85	2584.68	2646.04	2620.71	
G8	2584.08	2545.86	2654.89	2660.64	2709.62	2633.24	2531.86	2611.35	2584.08	
G9	2535.38	2495.73	2619.42	2617.33	2681.7	2605.83	2489.7	2562.56	2535.38	
G10	2486.08	2448.47	2575.68	2566.73	2652.9	2568.96	2445.55	2526.2	2486.08	
G11	2436.79	2401.4	2534.45	2516.46	2613.62	2516.23	2394.86	2465.82	2436.79	
G12	2389.07	2351.64	2498.74	2475.74	2566.92	2474.54	2340.42	2423.06	2389.07	
G13	2334.06	2303.73	2439.15	2426.21	2504.03	2423.85	2283.19	2370.56	2334.06	
G14	2283.19	2260.14	2388.42	2368.47	2443.56	2370.61	2226.98	2308.74	2283.19	
G15	2230.41	2204.4	2330.82	2311.11	2380.81	2316.21	2172.35	2252.21	2230.41	
G16	2189.18	2141.93	2273.22	2253.55	2316.72	2257.08	2124.49	2214.64	2189.18	
G17	2127.27	2095.6	2210.42	2191.69	2256.75	2207.13	2080.01	2165.21	2127.27	
G18	2089.06	2041.01	2160.29	2136.92	2200.08	2149.58	2033.73	2116.47	2089.06	
G19	2040.36	1995.56	2112.39	2078.95	2147.17	2112.76	1973.95	2079.04	2040.36	
G20	1982.35	1952.9	2068.0	2021.63	2099.63	2044.95	1934.77	2024.22	1982.35	
G21	1934.39	1895.02	2016.25	1986.1	2045.42	2010.59	1900.45	1982.58	1934.39	
G22	1877.86	1846.97	1971.03	1943.44	1980.82	1956.47	1850.82	1935.51	1877.86	
G23	1810.8	1786.04	1924.61	1886.26	1954.1	1918.3	1805.84	1869.7	1810.8	
G24	1734.0	1714.15	1881.8	1829.54	1895.39	1875.96	1740.73	1813.68	1734.0	
G25	1641.48	1620.75	1820.87	1782.79	1845.4	1832.97	1666.66	1749.82	1641.48	
G26	1531.8	1505.69	1765.35	1722.73	1800.88	1781.82	1583.79	1662.26	1531.8	
G27	1392.72	1371.53	1706.55	1648.9	1747.17	1725.05	1472.72	1559.44	1392.72	
G28	1239.36	1220.9	1615.28	1561.81	1681.88	1658.69	1342.91	1430.42	1239.36	
G29	1070.36	1052.83	1503.42	1438.22	1612.4	1569.74	1185.98	1282.16	1070.36	
G30	902.25	889.77	1374.22	1305.35	1507.64	1452.18	1027.88	1122.21	902.25	
G31	741.97	735.85	1221.32	1148.83	1376.49	1315.6	867.74	953.77	741.97	
G32	604.56	602.15	1061.13	995.23	1221.69	1153.23	714.15	798.46	604.56	
G33	493.4	487.32	899.93	837.65	1063.36	991.98	585.73	656.5	493.4	
G34	404.45	402.59	749.72	690.77	900.02	838.85	476.47	538.61	404.45	
G35	336.74	332.61	619.4	568.2	751.62	696.52	393.73	445.81	336.74	
G36	282.15	280.2	512.08	461.12	618.19	568.29	331.45	374.63	282.15	

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/10/25 18:34:47

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

Report No.:

Test Time: 2024/10/25 18:34:47

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	240.0	236.89	424.02	382.51	505.73	468.58	280.34	318.09	240.0	
G38	204.43	203.22	353.01	316.42	418.27	390.53	238.47	271.11	204.43	
G39	176.74	174.33	298.34	265.13	349.35	328.57	204.01	231.88	176.74	
G40	153.41	151.93	254.19	224.09	294.26	279.05	175.81	201.18	153.41	
G41	134.68	133.47	217.69	191.26	250.85	238.56	153.18	174.84	134.68	
G42	118.07	117.66	188.33	165.66	213.98	206.0	134.07	153.37	118.07	
G43	105.09	104.72	165.1	145.2	185.5	179.43	118.44	135.79	105.09	
G44	93.87	93.87	146.32	129.11	162.27	157.49	105.88	121.46	93.87	
G45	85.24	85.33	130.46	114.97	143.35	139.82	95.12	108.71	85.24	
G46	77.96	77.91	117.61	102.63	128.0	125.26	86.21	98.87	77.96	
G47	71.98	72.3	105.97	92.71	115.06	112.79	79.02	90.25	71.98	
G48	67.15	67.2	96.83	84.22	103.93	102.35	73.46	83.38	67.15	
G49	62.42	62.93	88.86	76.75	95.07	93.82	67.94	77.49	62.42	
G50	58.53	59.04	82.27	71.05	87.47	86.72	63.67	72.53	58.53	
G51	55.19	55.79	76.75	66.27	81.48	81.11	59.69	67.85	55.19	
G52	51.99	52.59	72.16	62.1	76.24	75.78	56.21	64.0	51.99	
G53	49.3	49.67	67.76	58.62	71.84	71.65	52.82	60.43	49.3	
G54	46.33	46.7	64.05	55.51	68.08	67.85	49.95	57.27	46.33	
G55	44.06	44.2	60.52	52.4	64.69	64.09	46.98	54.31	44.06	
G56	41.51	41.78	57.18	49.85	61.49	60.66	44.47	51.71	41.51	
G57	39.56	39.61	54.26	47.03	58.8	57.46	42.48	49.16	39.56	
G58	37.56	37.43	51.66	44.75	55.79	54.49	40.25	46.52	37.56	
G59	35.57	35.62	49.16	42.57	52.92	51.8	38.31	44.34	35.57	
G60	33.76	33.53	46.52	40.58	50.41	49.21	36.59	42.25	33.76	
G61	31.77	31.77	44.15	38.54	47.81	46.7	34.55	40.16	31.77	
G62	30.1	29.63	41.83	36.59	45.49	44.47	32.74	38.03	30.1	
G63	27.96	27.96	39.65	34.74	43.45	42.57	30.98	35.71	27.96	
G64	25.69	25.74	37.66	32.88	41.32	40.35	28.89	33.81	25.69	
G65	23.65	23.65	35.57	30.79	39.33	38.35	26.62	31.54	23.65	
G66	21.43	21.47	33.3	28.89	37.24	36.13	24.25	29.31	21.43	
G67	18.78	19.11	31.07	26.71	35.01	33.95	21.66	26.57	18.78	
G68	15.63	16.14	28.99	24.53	32.65	31.49	18.97	23.84	15.63	
G69	12.99	13.31	26.53	22.21	30.38	28.89	15.49	20.31	12.99	
G70	11.27	11.45	23.84	19.71	27.87	26.2	12.57	17.34	11.27	
G71	9.92	10.06	20.45	16.42	25.09	23.05	10.99	15.4	9.92	
G72	8.53	8.63	17.62	13.36	21.47	19.25	9.55	13.96	8.53	
G73	7.19	7.28	15.95	11.64	18.27	16.74	8.07	12.34	7.19	

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/10/25 18:34:47

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

[illegible]

Remarks: