

Report No.:

Test Time: 2024/5/25 11:23:24

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP104CT095H78-38°-10.6W
Lamp Type:
Luminous Width: 90 mm
Luminous Length: 90 mm
Luminous Height: 74 mm

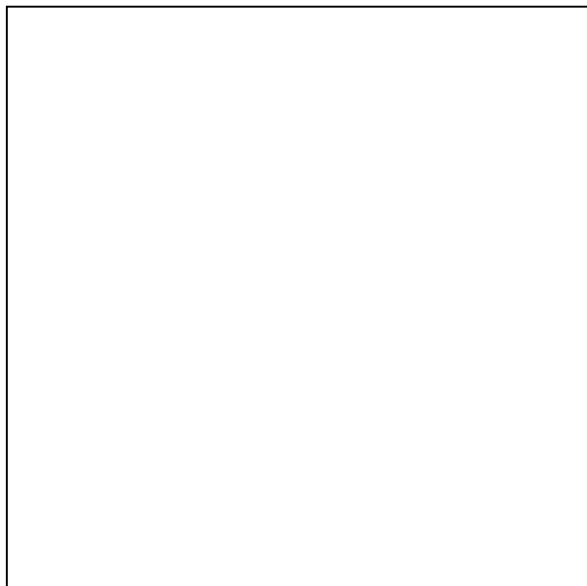
Voltage(V): 220.00 V
Current(A): 0.0520 A
Power(W): 10.61 W
Power Factor: 0.9180
Lamp Luminous Flux: 1147.52

Photometric Results

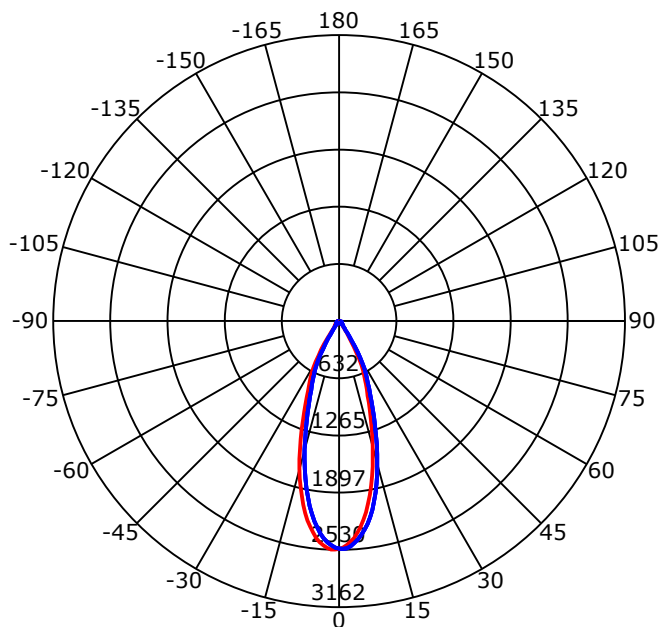
CIE Class: Direct
Luminaire Luminous Flux: 1147.52 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 108.15 lm/W
Beam Angle(50%) C0-180,C90-270: 35.8,35.6
Field Angle(10%) C0-180,C90-270: 64.8,64.7
S/MH C0-180,C90-270: 0.611,0.611

Max. Intensity: 2529.82 cd
Max.Intensity Angle: C=315 Gamma=0
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 2518.82 cd
Effective Luminous Flux: 1017.84 lm
ERP(ϕ use)(120deg): 1132.29 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 35.8 deg,35.6 deg

C0-180 — C90-270 —

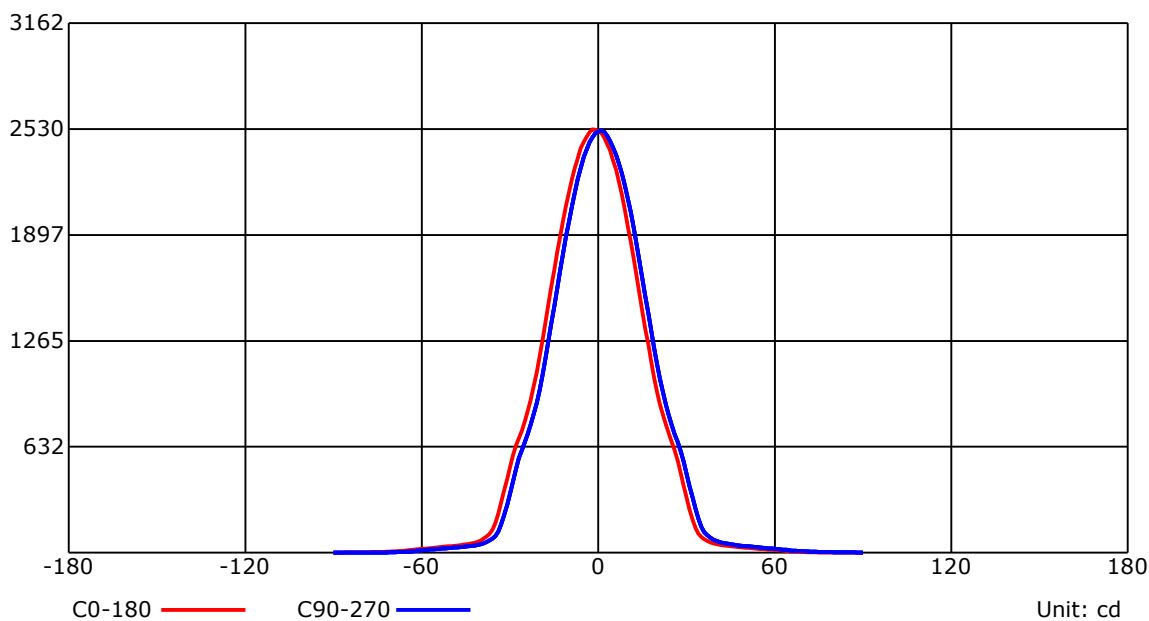
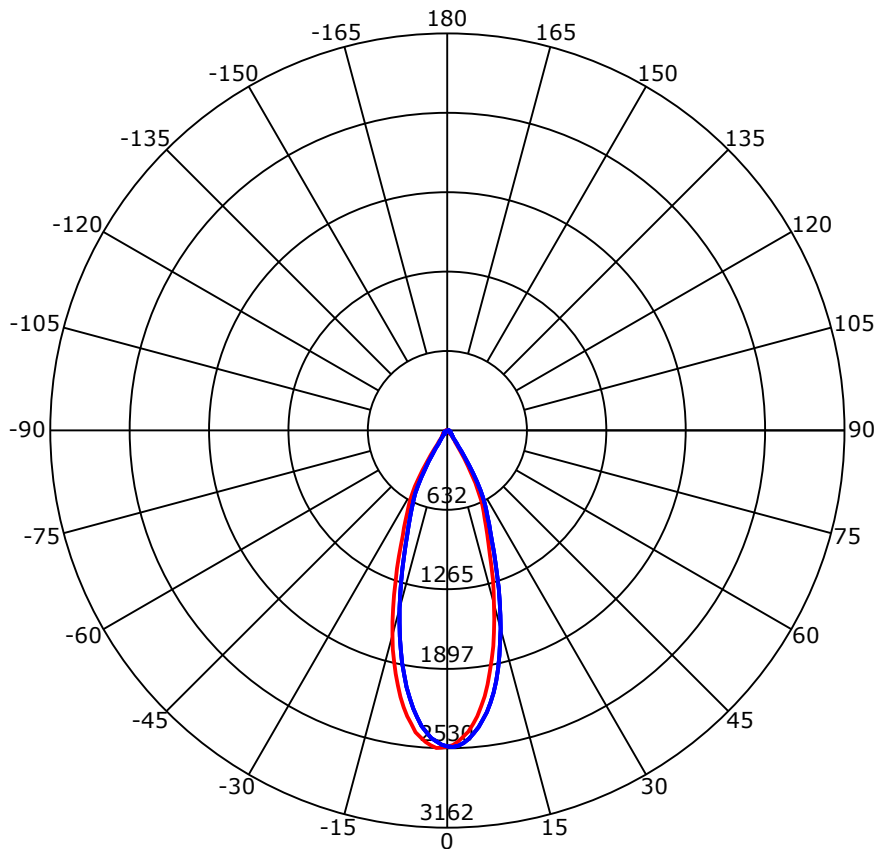
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/5/25 11:23:24

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

Report No.:

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Luminous Intensity Distribution Curve



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2024/5/25 11:23:24

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

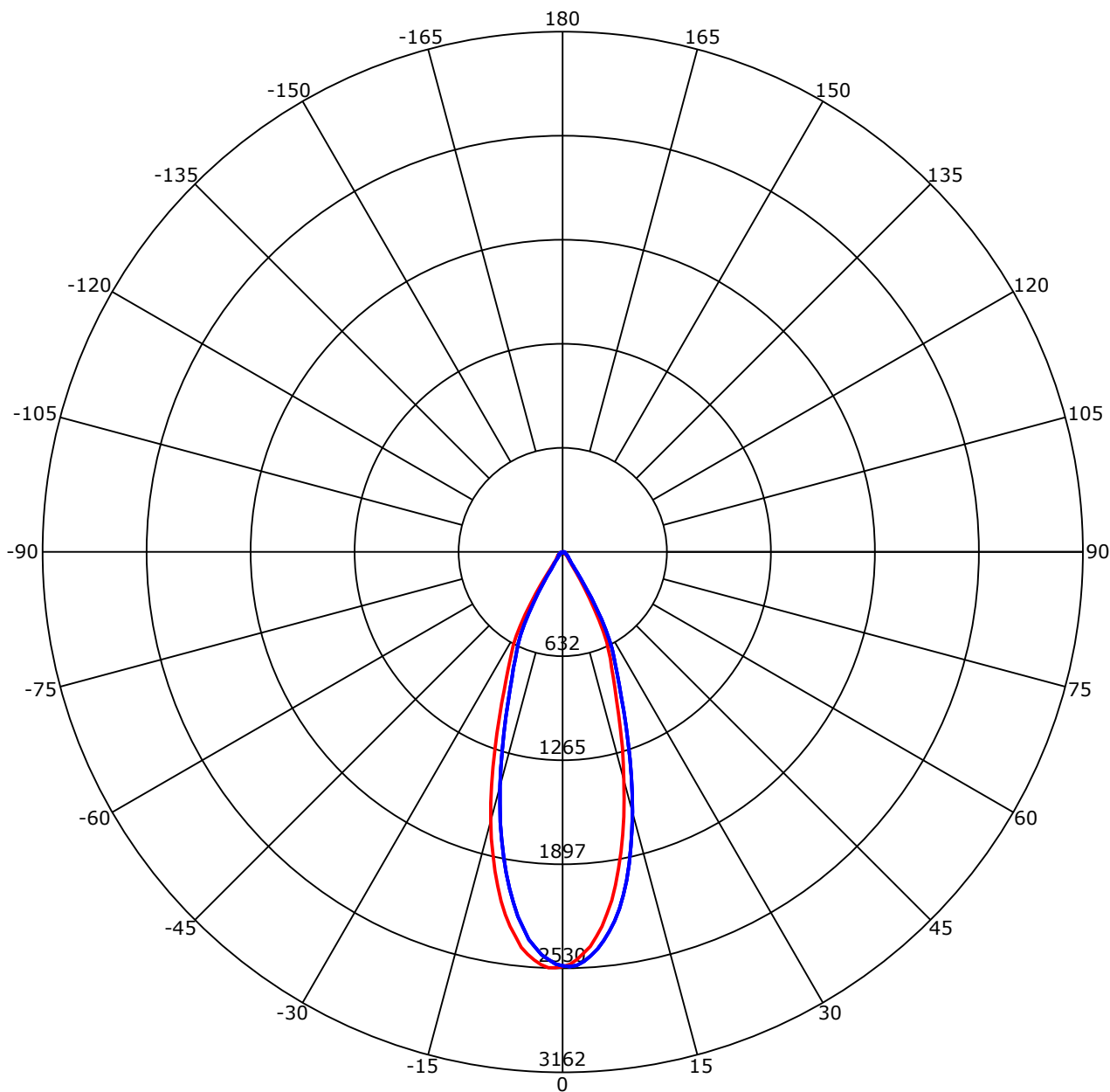
Test Distance: 6.7 m

Remarks:

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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: 2024/5/25 11:23:24

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

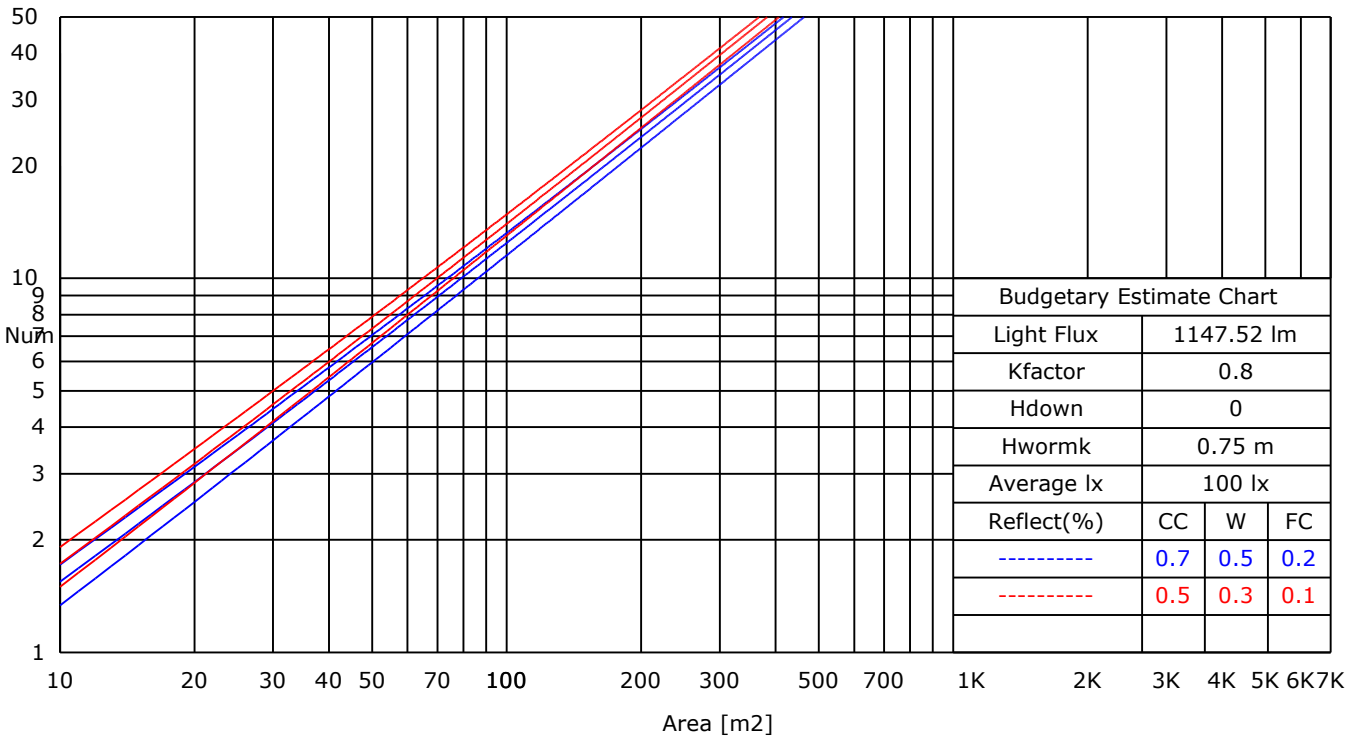
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UTILIZATION FACTORS TABLE

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	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	1.02	1.00	0.98	1.00	0.98	0.96	0.97	0.95	0.92	0.92	0.90	0.87	0.86	0.84	0.81	0.76
2	0.96	0.93	0.92	0.95	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	0.92	0.90	0.88	0.91	0.88	0.86	0.88	0.85	0.83	0.85	0.81	0.78	0.80	0.77	0.73	0.69
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	0.86	0.84	0.83	0.85	0.83	0.81	0.83	0.80	0.77	0.80	0.76	0.73	0.76	0.72	0.69	0.65
6	0.83	0.82	0.81	0.82	0.80	0.79	0.80	0.77	0.75	0.78	0.74	0.71	0.75	0.70	0.67	0.63
7	0.81	0.80	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	0.79	0.78	0.77	0.78	0.76	0.75	0.76	0.73	0.71	0.74	0.70	0.68	0.71	0.67	0.64	0.60
9	0.77	0.76	0.75	0.76	0.74	0.73	0.74	0.72	0.70	0.72	0.69	0.66	0.70	0.65	0.62	0.59
10	0.75	0.74	0.73	0.75	0.73	0.72	0.73	0.70	0.68	0.70	0.67	0.65	0.68	0.64	0.61	0.58

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



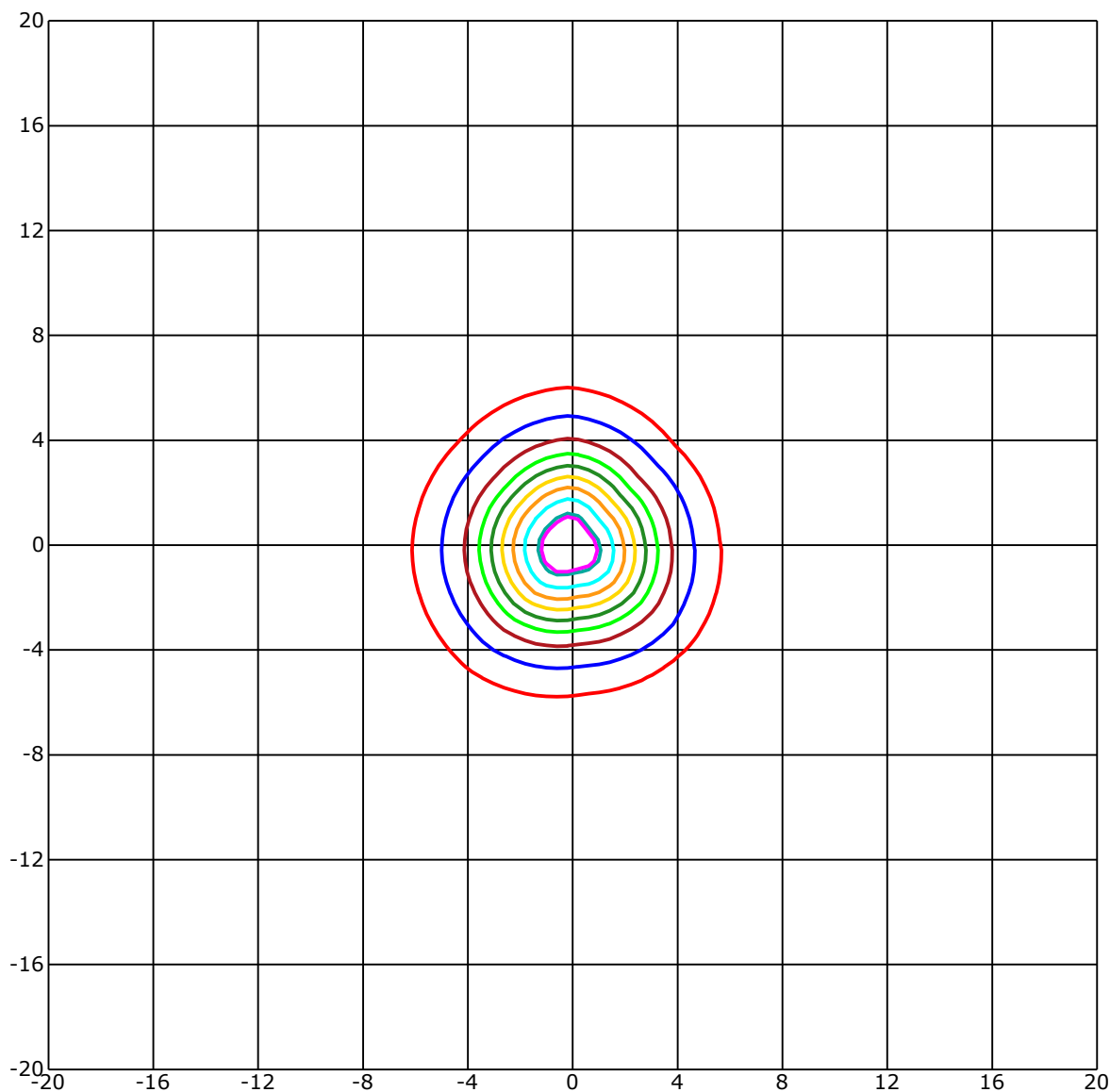
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/5/25 11:23:24

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

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ISOLX DIAGRAM



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/5/25 11:23:24

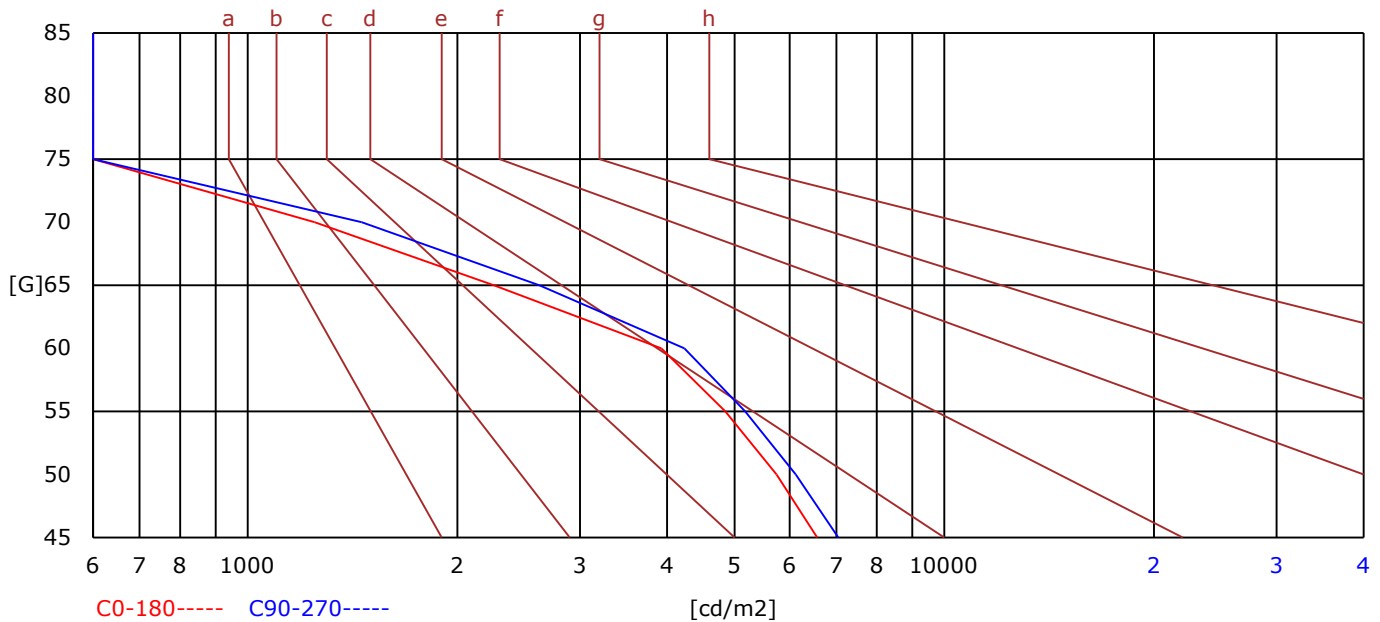
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	6568	5742	4850	3924	2256	1248	600	383	0
C90	7046	6121	5179	4234	2623	1458	557	383	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



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Humidity: 60
Test Distance: 6.7 m
Remarks:

Height	Ecenter,Emax	Beam angle:35.8 deg (C0_180)	Diameter
4.92ft 1.50m	104.00 , 104.46fc 1119.48 , 1124.36lx		3.18ft 0.97m
7.38ft 2.25m	46.22 , 46.43fc 497.55 , 499.72lx		4.77ft 1.45m
11.48ft 3.50m	19.10 , 19.19fc 205.62 , 206.52lx		7.41ft 2.26m
13.12ft 4.00m	14.63 , 14.69fc 157.43 , 158.11lx		8.47ft 2.58m
16.40ft 5.00m	9.36 , 9.40fc 100.75 , 101.19lx		10.59ft 3.23m
21.33ft 6.50m	5.54 , 5.56fc 59.62 , 59.88lx		13.77ft 4.20m
22.97ft 7.00m	4.78 , 4.80fc 51.40 , 51.63lx		14.83ft 4.52m
26.25ft 8.00m	3.66 , 3.67fc 39.36 , 39.53lx		16.95ft 5.16m
29.53ft 9.00m	2.89 , 2.90fc 31.10 , 31.23lx		19.06ft 5.81m
32.81ft 10.00m	2.34 , 2.35fc 25.19 , 25.30lx		21.18ft 6.46m

G Range: 0 - 90 Deg
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Humidity: 60
Test Distance: 6.7 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	7.32	7.37	7.52	7.56	7.80	7.79	7.84	7.99	8.03	8.27
	3H	7.34	7.39	7.54	7.58	7.83	7.78	7.84	7.99	8.03	8.28
	4H	7.33	7.38	7.54	7.58	7.82	7.77	7.82	7.98	8.02	8.27
	6H	7.31	7.37	7.53	7.57	7.82	7.75	7.81	7.97	8.01	8.26
	8H	7.30	7.36	7.52	7.56	7.81	7.75	7.80	7.96	8.00	8.26
	12H	7.29	7.35	7.52	7.55	7.81	7.74	7.79	7.96	8.00	8.25
4H	2H	7.60	7.66	7.81	7.85	8.10	8.45	8.51	8.66	8.70	8.95
	3H	7.62	7.68	7.84	7.88	8.14	8.45	8.51	8.68	8.71	8.97
	4H	7.61	7.66	7.84	7.88	8.14	8.44	8.49	8.67	8.70	8.96
	6H	7.59	7.65	7.83	7.87	8.13	8.42	8.47	8.65	8.69	8.95
	8H	7.58	7.64	7.83	7.86	8.13	8.40	8.45	8.65	8.68	8.95
	12H	7.57	7.62	7.82	7.85	8.12	8.39	8.44	8.64	8.67	8.94
8H	4H	7.59	7.64	7.81	7.85	8.10	8.57	8.62	8.79	8.82	9.08
	6H	7.57	7.62	7.83	7.86	8.13	8.56	8.60	8.81	8.84	9.12
	8H	7.56	7.60	7.82	7.85	8.13	8.54	8.59	8.80	8.83	9.11
	12H	7.54	7.59	7.81	7.84	8.12	8.52	8.57	8.79	8.82	9.10
12H	4H	7.58	7.63	7.83	7.86	8.13	8.66	8.71	8.90	8.94	9.21
	6H	7.56	7.60	7.82	7.85	8.12	8.64	8.68	8.90	8.93	9.21

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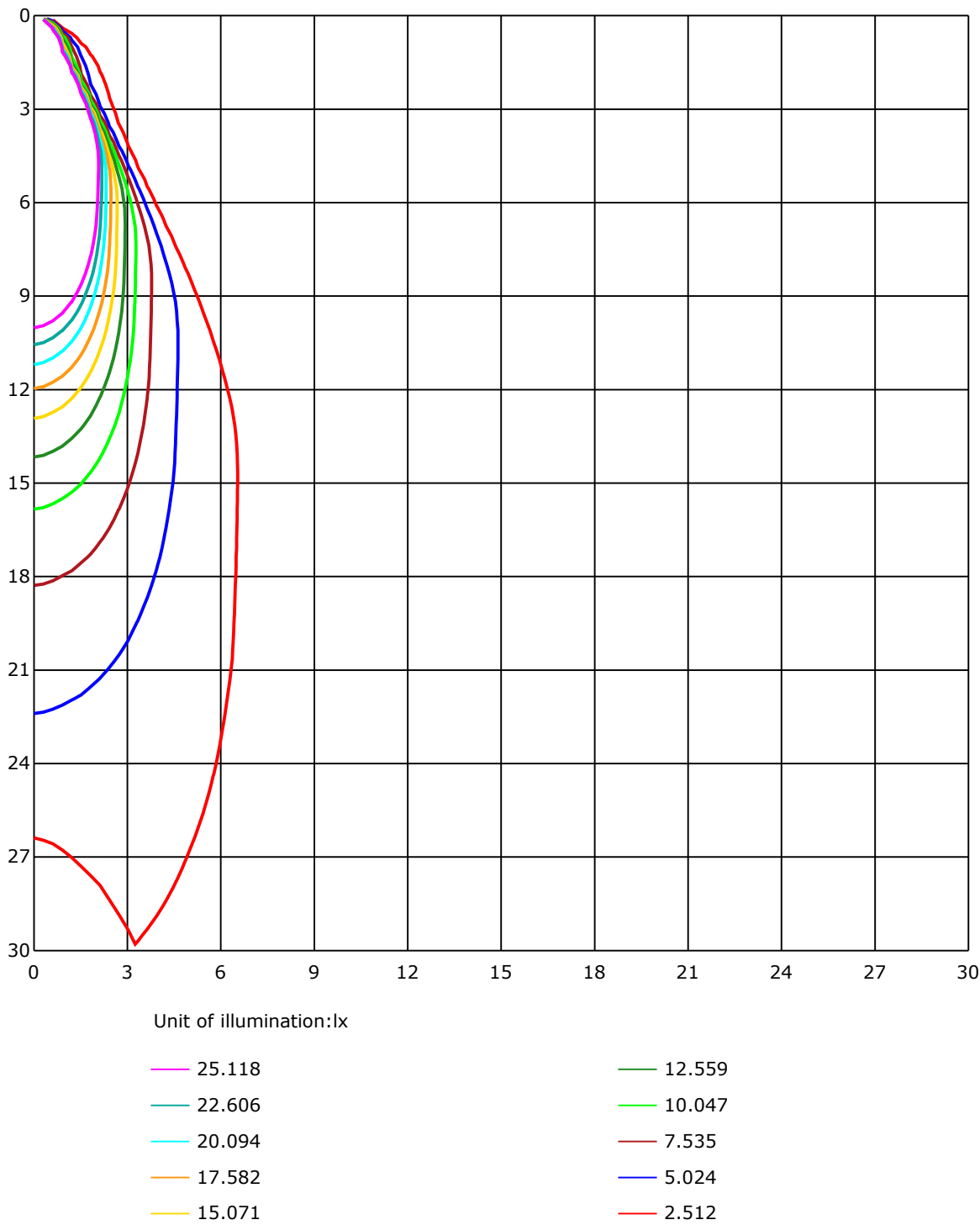
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

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

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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: 2024/5/25 11:23:24

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

Report No.:

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	2518.82	2499.16	2514.2	2529.82	2518.82	2499.16	2514.2	2529.82	2518.82	
G1	2506.75	2480.58	2520.26	2523.76	2526.23	2514.56	2504.19	2524.52	2506.75	
G2	2478.51	2441.16	2511.96	2507.51	2528.47	2513.03	2479.36	2508.27	2478.51	
G3	2439.82	2399.19	2490.54	2481.25	2511.42	2511.33	2451.85	2481.25	2439.82	
G4	2403.77	2349.95	2459.16	2447.9	2484.84	2483.67	2408.17	2452.75	2403.77	
G5	2344.83	2294.33	2420.87	2399.1	2453.91	2460.78	2362.88	2403.46	2344.83	
G6	2287.77	2219.99	2374.37	2351.11	2415.94	2422.8	2295.05	2356.55	2287.77	
G7	2213.21	2146.6	2322.29	2293.12	2354.93	2380.79	2231.44	2290.33	2213.21	
G8	2137.57	2065.61	2264.21	2226.86	2297.74	2315.07	2150.68	2232.51	2137.57	
G9	2049.54	1974.89	2195.84	2152.21	2231.44	2255.23	2069.25	2150.9	2049.54	
G10	1952.31	1877.57	2118.85	2077.02	2155.17	2183.99	1979.25	2068.58	1952.31	
G11	1855.62	1779.13	2033.34	1983.47	2068.49	2099.46	1884.89	1980.64	1855.62	
G12	1754.97	1675.3	1938.26	1895.03	1981.04	2015.65	1784.47	1881.16	1754.97	
G13	1650.88	1570.48	1839.19	1792.86	1886.86	1925.65	1685.4	1783.26	1650.88	
G14	1543.9	1460.72	1738.1	1687.37	1795.06	1823.88	1577.43	1675.38	1543.9	
G15	1437.87	1357.2	1635.84	1578.47	1690.15	1726.6	1472.48	1569.94	1437.87	
G16	1334.09	1255.84	1532.23	1473.29	1585.56	1619.68	1365.91	1468.62	1334.09	
G17	1240.8	1151.83	1426.11	1360.08	1480.43	1514.05	1260.92	1362.68	1240.8	
G18	1136.48	1059.18	1321.29	1254.09	1373.32	1408.96	1156.86	1261.1	1136.48	
G19	1040.55	967.42	1219.35	1154.71	1267.6	1301.5	1060.35	1167.23	1040.55	
G20	958.99	886.98	1125.44	1061.65	1171.99	1197.58	970.43	1068.16	958.99	
G21	883.88	818.84	1035.88	975.77	1076.19	1103.76	892.82	983.36	883.88	
G22	819.33	758.46	952.3	901.84	991.35	1011.01	824.0	911.04	819.33	
G23	760.71	704.05	880.92	835.27	912.12	930.12	765.46	845.1	760.71	
G24	710.56	653.51	817.31	776.01	847.43	857.94	709.76	786.88	710.56	
G25	657.86	605.57	759.09	717.12	787.15	799.27	662.17	734.98	657.86	
G26	609.47	548.02	706.66	668.68	731.17	740.64	614.41	690.5	609.47	
G27	544.52	482.75	659.08	622.49	683.23	691.04	563.91	636.72	544.52	
G28	473.45	413.17	604.26	565.66	638.43	645.92	497.2	573.78	473.45	
G29	398.67	343.77	542.81	496.12	583.35	595.65	426.86	501.2	398.67	
G30	329.09	277.82	469.95	424.21	515.65	534.42	356.29	427.8	329.09	
G31	258.07	217.76	398.94	352.43	442.48	464.07	287.57	351.89	258.07	
G32	195.99	165.29	328.42	284.74	371.6	391.22	223.46	281.82	195.99	
G33	147.33	125.11	262.07	222.88	301.71	321.73	169.77	217.04	147.33	
G34	113.39	100.78	202.32	167.8	234.37	255.65	127.4	163.44	113.39	
G35	93.91	87.54	155.27	126.28	178.75	195.94	99.48	127.44	93.91	
G36	81.43	75.28	123.09	101.14	137.32	148.09	85.34	107.74	81.43	

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Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	70.43	66.03	105.18	86.77	111.96	117.61	73.75	92.88	70.43	
G38	61.72	58.0	90.9	74.47	96.29	100.64	63.52	80.58	61.72	
G39	55.71	53.1	79.81	65.05	83.81	87.58	55.57	71.33	55.71	
G40	51.8	49.47	70.93	57.95	73.89	76.45	49.74	65.45	51.8	
G41	48.44	46.28	64.87	52.75	66.12	67.07	45.65	60.33	48.44	
G42	45.16	43.77	60.33	48.84	60.33	60.56	42.74	56.47	45.16	
G43	42.65	41.52	56.61	45.02	56.25	56.16	40.31	53.02	42.65	
G44	40.63	39.55	53.33	42.51	52.97	52.39	38.2	50.28	40.63	
G45	38.47	37.62	50.64	40.36	50.41	49.87	36.63	47.58	38.47	
G46	36.59	35.78	47.85	38.34	47.9	46.82	34.92	44.93	36.59	
G47	34.74	34.34	45.25	36.68	45.43	45.16	33.58	42.6	34.74	
G48	33.13	33.17	43.14	35.33	43.41	43.09	32.01	40.76	33.13	
G49	31.42	31.33	41.3	33.4	41.39	41.43	30.61	38.7	31.42	
G50	29.94	29.9	39.46	31.87	39.68	39.55	29.04	37.12	29.94	
G51	28.33	28.59	37.8	30.26	37.8	37.89	27.7	35.24	28.33	
G52	26.98	27.07	35.96	28.86	36.32	36.05	26.04	33.62	26.98	
G53	25.36	25.72	34.34	27.07	34.21	34.43	24.6	31.6	25.36	
G54	23.97	24.06	32.46	25.86	32.28	32.72	23.03	30.26	23.97	
G55	22.36	22.53	30.7	24.06	30.57	31.11	21.77	28.28	22.36	
G56	21.01	21.1	29.13	22.67	29.0	29.31	20.34	26.66	21.01	
G57	19.71	19.98	27.61	21.28	27.25	27.56	18.94	25.0	19.71	
G58	18.67	18.49	26.13	19.98	25.77	26.26	17.55	23.79	18.67	
G59	17.37	17.24	24.73	18.54	24.15	24.38	16.16	22.13	17.37	
G60	15.89	15.89	23.03	17.15	22.62	22.71	14.5	20.51	15.89	
G61	14.54	14.68	21.77	15.71	21.1	21.05	12.88	19.17	14.54	
G62	13.11	13.15	20.07	14.19	19.35	19.26	11.09	17.42	13.11	
G63	11.36	11.67	18.49	12.66	17.73	17.73	8.75	15.53	11.36	
G64	9.25	9.56	16.88	11.09	15.76	15.53	6.73	13.11	9.25	
G65	7.54	7.72	14.81	8.98	13.11	12.97	5.88	11.45	7.54	
G66	6.55	6.69	12.84	7.36	11.18	10.91	5.12	10.23	6.55	
G67	5.61	5.79	11.4	6.51	10.01	9.83	4.4	9.11	5.61	
G68	4.98	4.94	10.28	5.57	9.2	8.93	3.64	8.3	4.98	
G69	4.08	4.22	9.38	4.67	8.21	8.04	3.01	7.32	4.08	
G70	3.55	3.46	8.44	4.04	7.36	7.09	2.51	6.78	3.55	
G71	2.87	2.96	7.59	3.23	6.46	6.33	1.84	5.84	2.87	
G72	2.47	2.29	6.64	2.69	5.88	5.61	1.3	5.3	2.47	
G73	1.84	1.84	5.97	2.15	5.21	4.98	1.08	4.58	1.84	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2024/5/25 11:23:24

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.7 m

Remarks:

Remarks: