Report No.: Test Time: 2024/10/27 14:07:44

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP151CT095H67-24°-10W
Lamp Type:
Luminous Width: 80 mm
Luminous Length: 80 mm
Luminous Height: 63 mm

Voltage(V): 220.00 V
Current(A): 0.0530 A
Power(W): 10.78 W
Power Factor: 0.9170
Lamp Luminous Flux: 1188.16

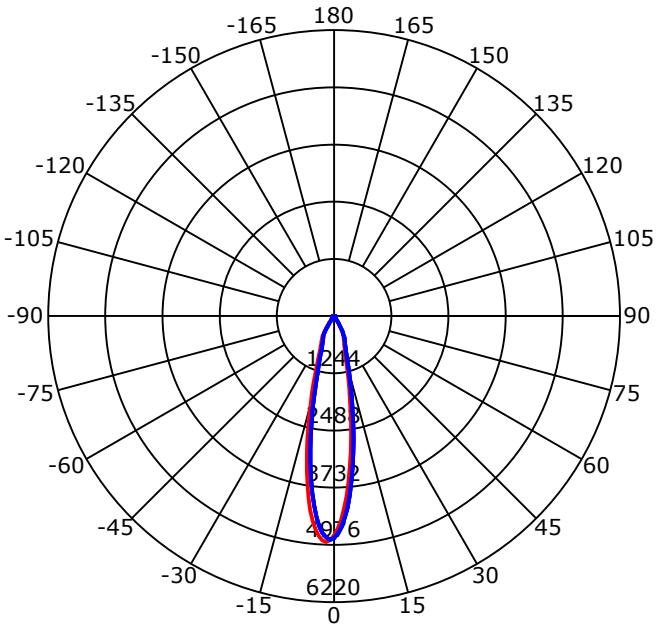
Photometric Results

CIE Class: Direct
Luminaire Luminous Flux: 1188.159 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 110.22 lm/W
Beam Angle(50%) C0-180,C90-270: 21.9,21.7
Field Angle(10%) C0-180,C90-270: 54.8,54.6
S/MH C0-180,C90-270: 0.389,0.389

Max. Intensity: 4976.39 cd
Max.Intensity Angle: C=225 Gamma=3
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 4768.11 cd
Effective Luminous Flux: 960.30 lm
ERP(φuse)(120deg): 1167.75 lm

Picture of Luminaire

Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 21.9 deg,21.7 deg

C0-180 C90-270

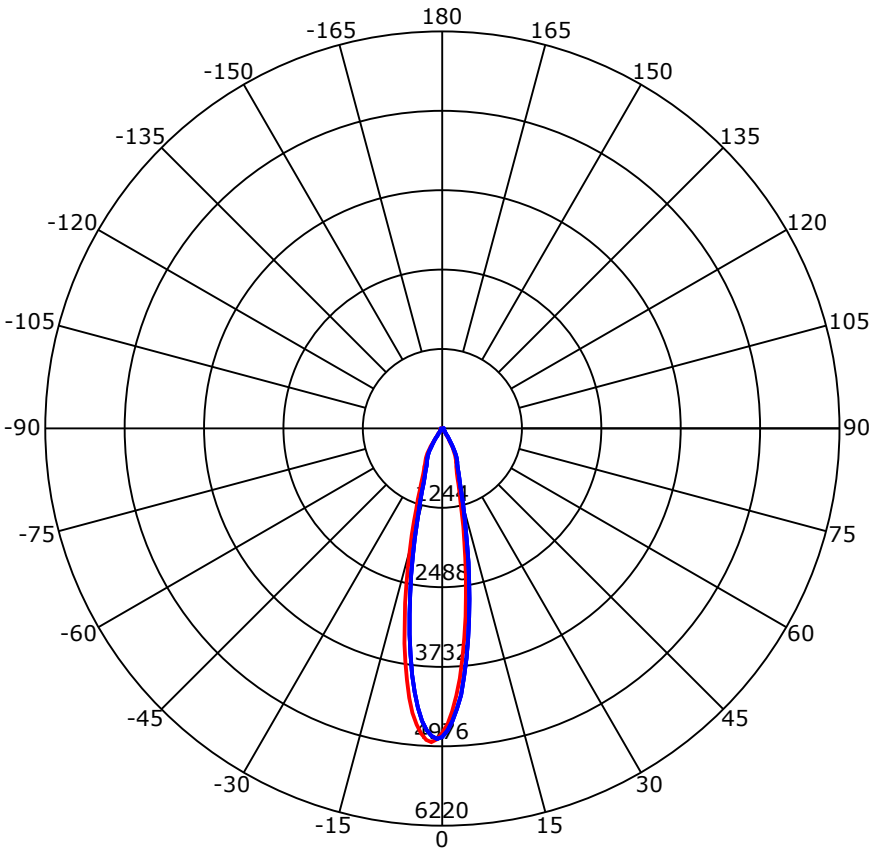
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/10/27 14:07:44

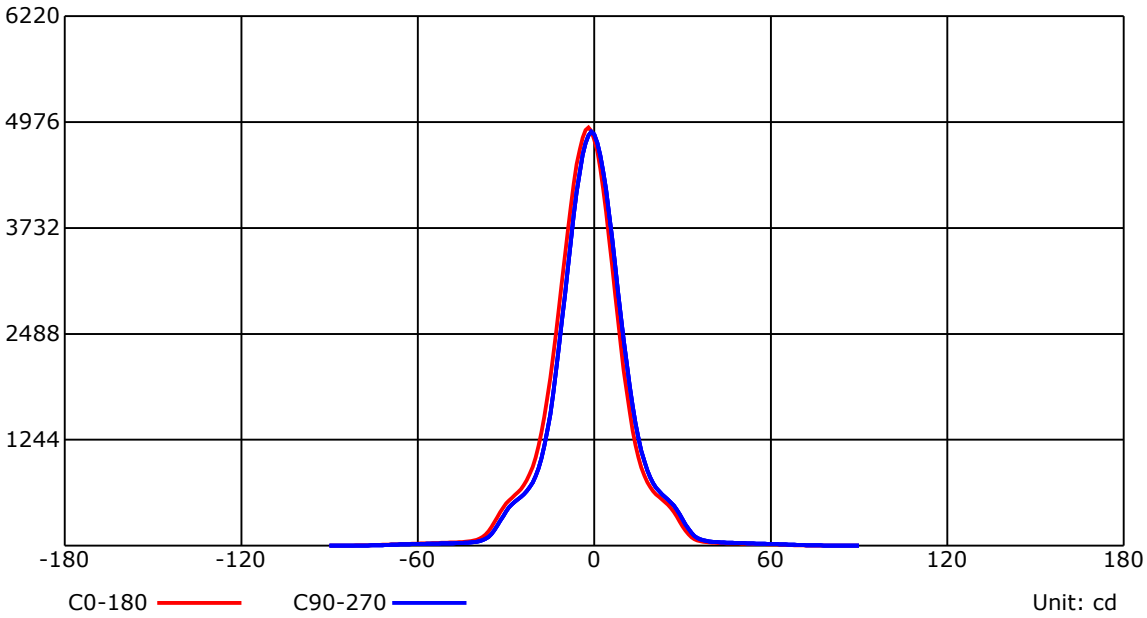
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

Report No.:

Test Time: 2024/10/27 14:07:44

Luminous Intensity Distribution Curve





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Test Date: 2024/10/27 14:07:44

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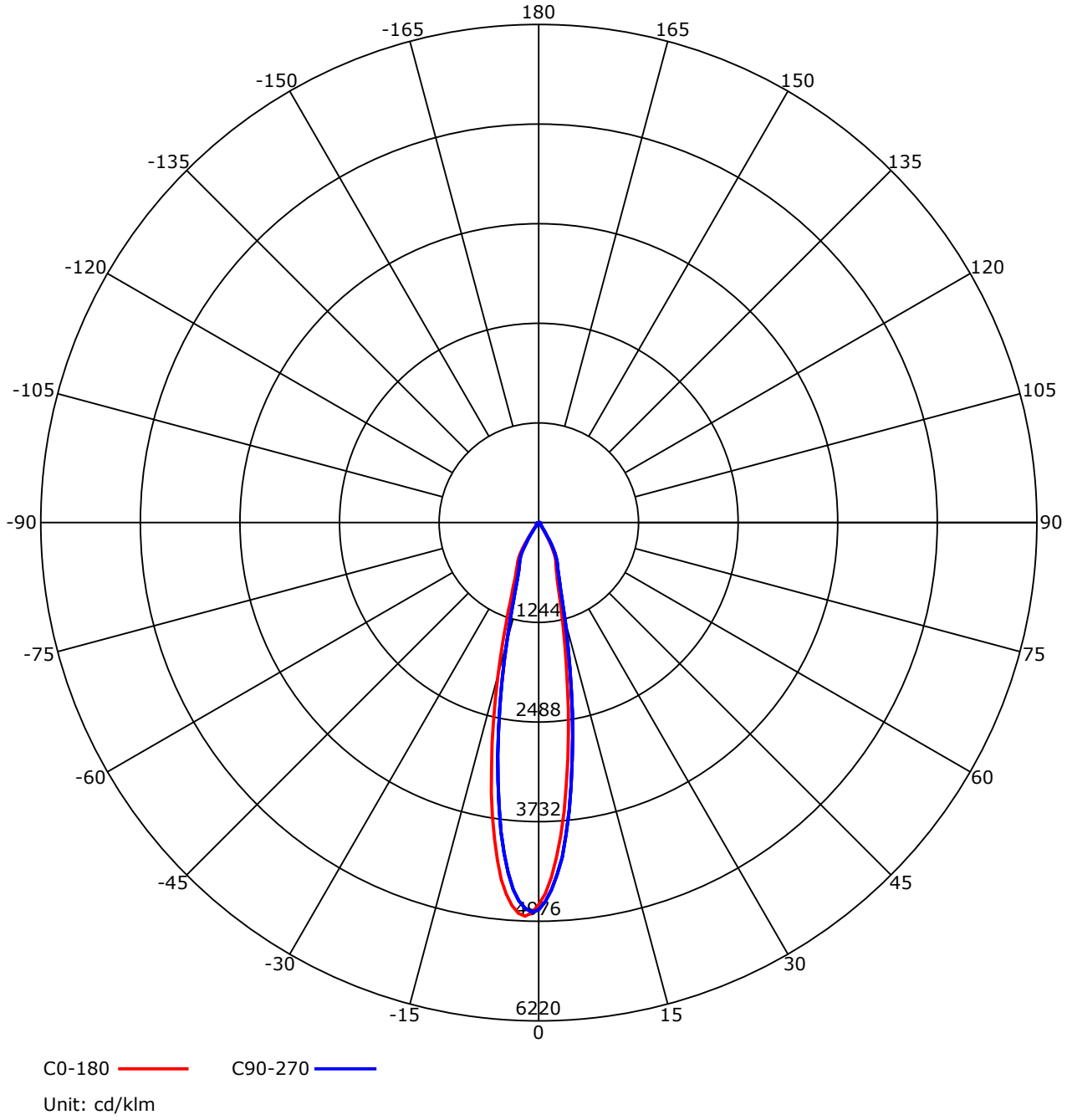
Remarks:

Report No.:

Test Time: 2024/10/27 14:07:44

Luminous Intensity Distribution Curve



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Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/10/27 14:07:44

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

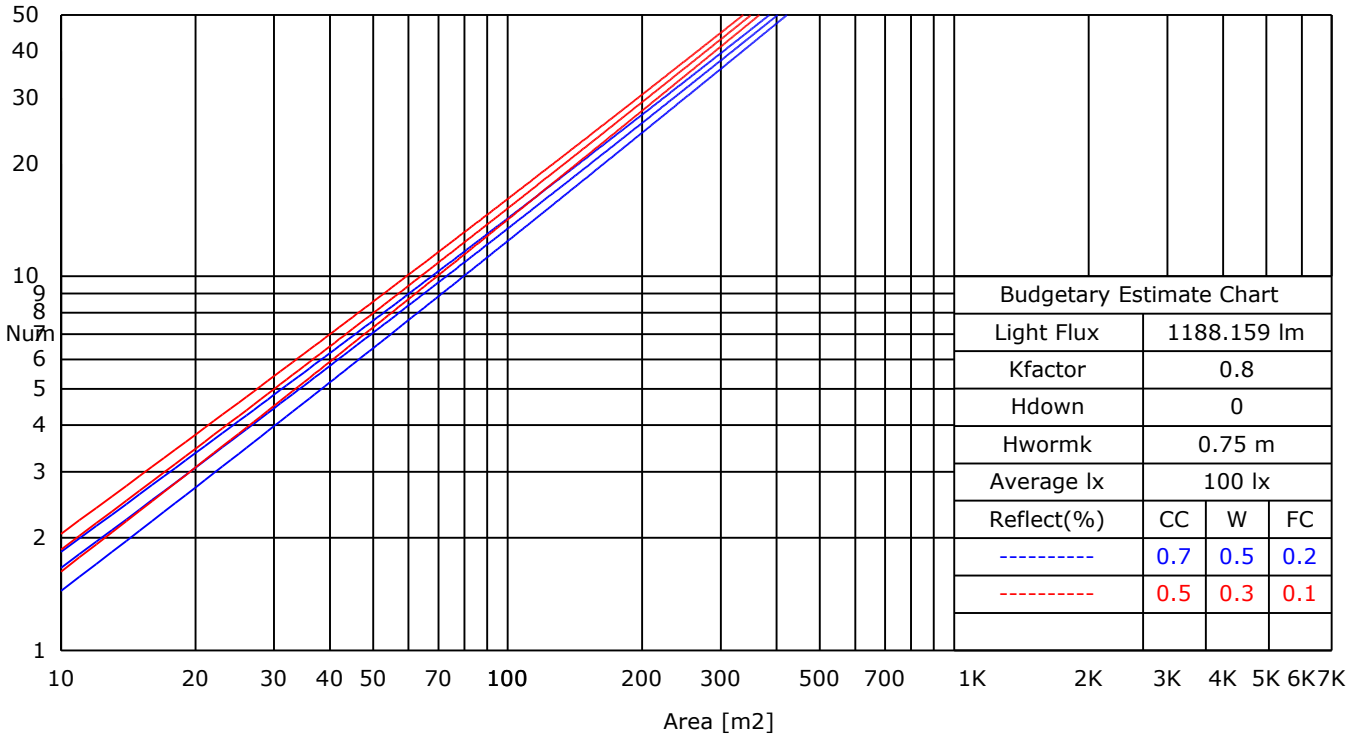
Report No.:

Test Time: 2024/10/27 14:07:44

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	0.89	0.86	0.83	0.89	0.85	0.82	0.86	0.82	0.79	0.83	0.79	0.75	0.78	0.73	0.70	0.64
2	0.85	0.82	0.80	0.85	0.81	0.79	0.83	0.79	0.75	0.80	0.75	0.72	0.75	0.71	0.67	0.62
3	0.82	0.79	0.77	0.81	0.78	0.76	0.80	0.76	0.73	0.77	0.73	0.69	0.73	0.69	0.65	0.60
4	0.79	0.76	0.75	0.78	0.75	0.73	0.77	0.73	0.70	0.75	0.70	0.67	0.72	0.67	0.63	0.59
5	0.76	0.74	0.73	0.76	0.73	0.71	0.75	0.71	0.68	0.72	0.68	0.65	0.70	0.65	0.61	0.57
6	0.74	0.72	0.71	0.74	0.71	0.69	0.72	0.69	0.66	0.70	0.66	0.63	0.68	0.63	0.59	0.56
7	0.72	0.70	0.69	0.72	0.69	0.68	0.70	0.67	0.65	0.69	0.64	0.61	0.66	0.62	0.58	0.54
8	0.70	0.69	0.68	0.70	0.68	0.66	0.69	0.65	0.63	0.67	0.63	0.60	0.65	0.60	0.56	0.53
9	0.69	0.67	0.66	0.68	0.66	0.65	0.67	0.64	0.62	0.65	0.61	0.58	0.63	0.59	0.55	0.52
10	0.67	0.66	0.65	0.67	0.65	0.63	0.65	0.62	0.60	0.64	0.60	0.57	0.62	0.57	0.54	0.51

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



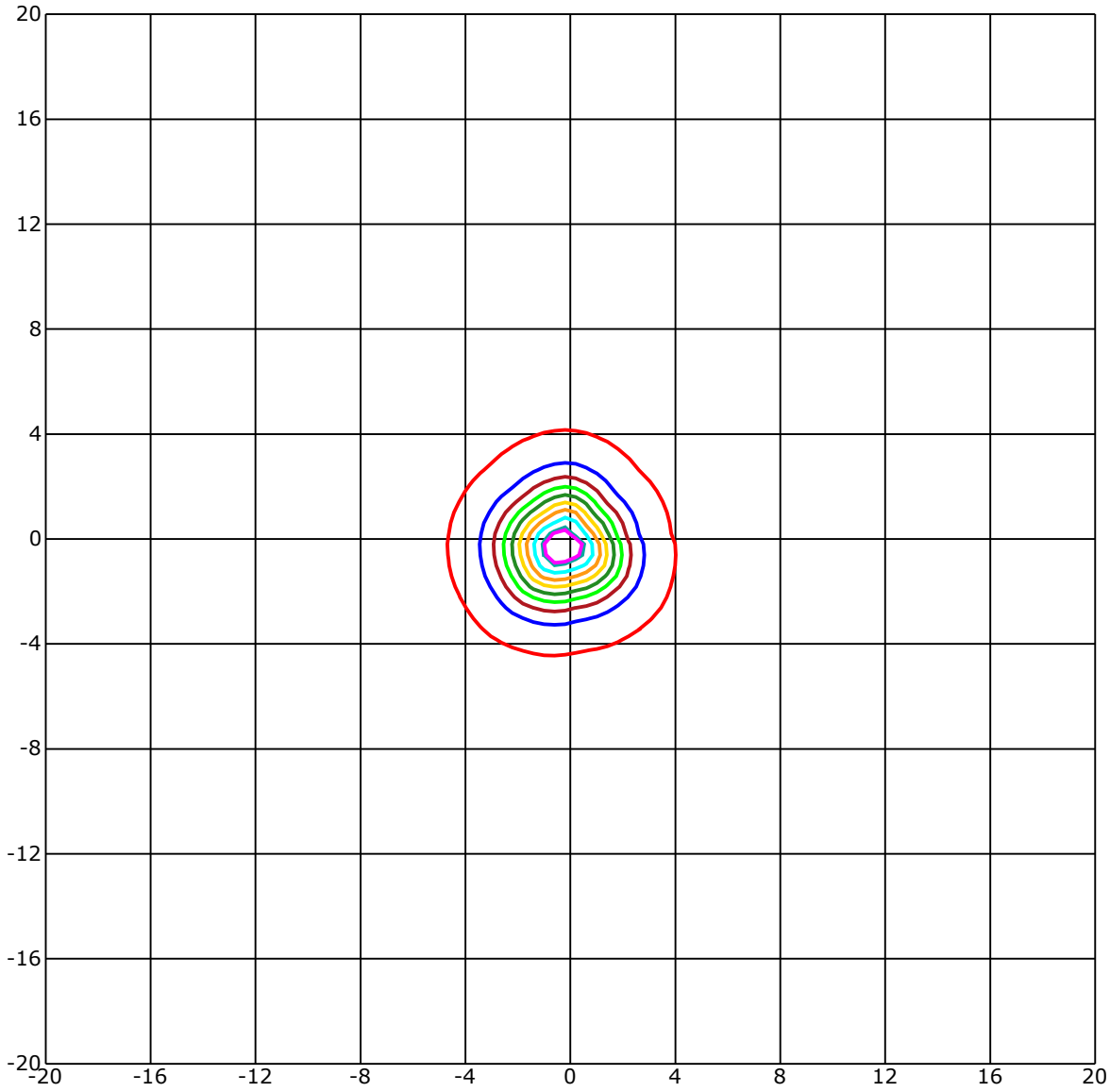
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/10/27 14:07:44

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: 2024/10/27 14:07:44

ISOLX DIAGRAM



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

45.595(92%Emax)
44.604(90%Emax)
39.648(80%Emax)
34.692(70%Emax)
29.736(60%Emax)
24.78(50%Emax)
19.824(40%Emax)
14.868(30%Emax)
9.912(20%Emax)
4.956(10%Emax)

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/10/27 14:07:44

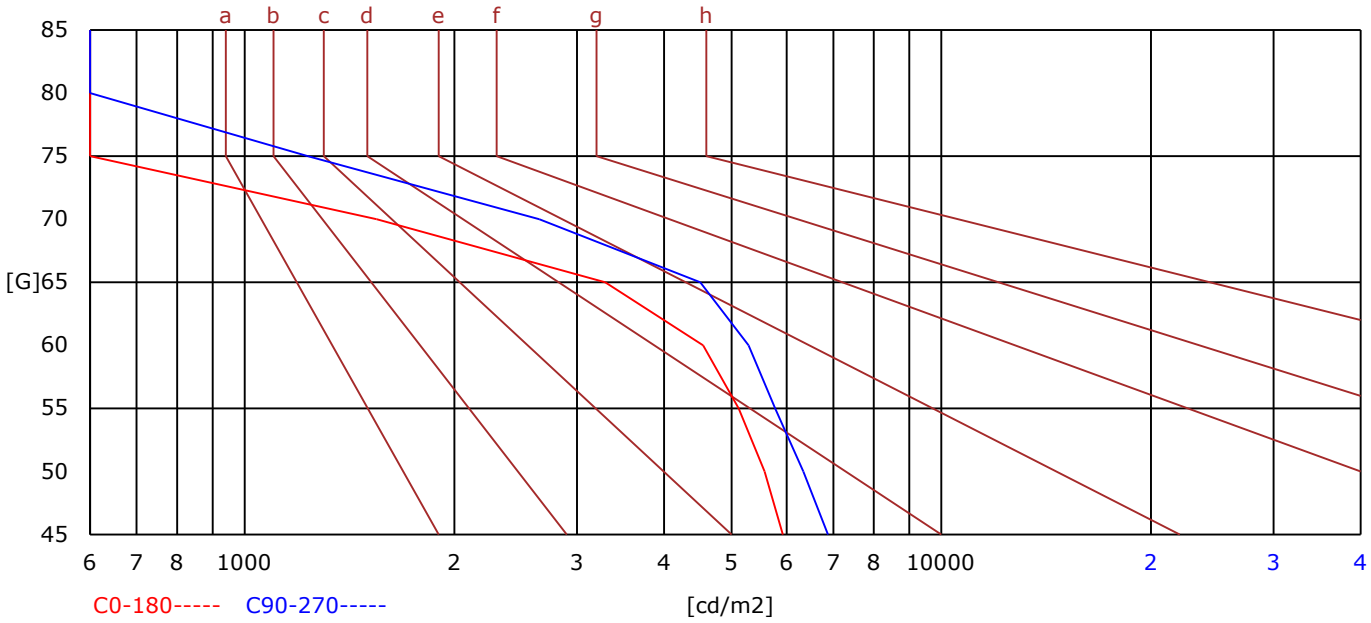
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

Report No.:

Test Time: 2024/10/27 14:07:44

BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	5923	5580	5117	4551	3292	1547	224	0	0
C90	6876	6336	5773	5290	4509	2648	1232	0	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



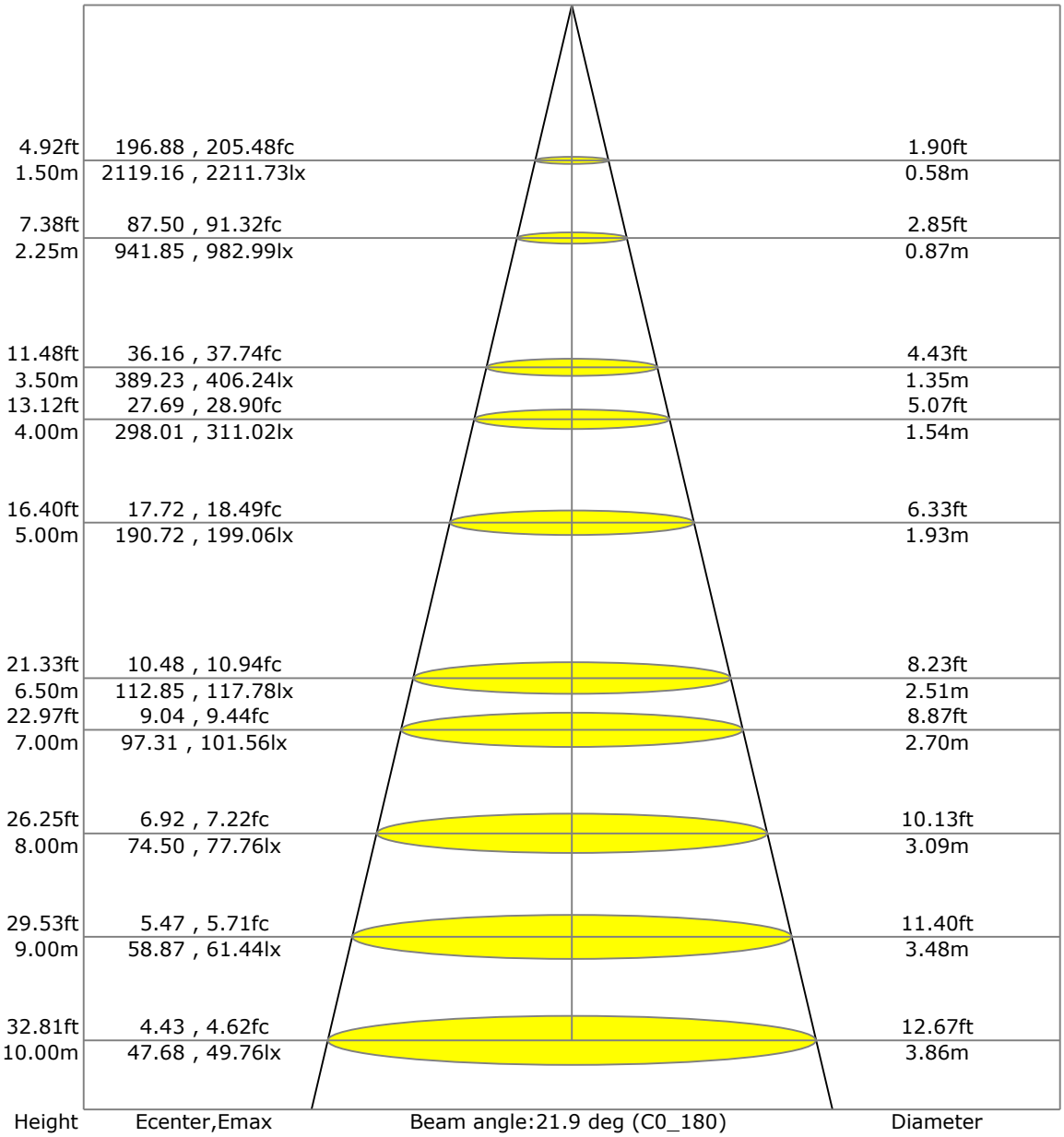
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/10/27 14:07:44

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: 2024/10/27 14:07:44

LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/10/27 14:07:44

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: 2024/10/27 14:07:44

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	6.10	6.15	6.30	6.34	6.59	6.50	6.56	6.70	6.75	6.99
	3H	6.14	6.21	6.35	6.40	6.64	6.52	6.58	6.73	6.77	7.02
	4H	6.14	6.20	6.35	6.39	6.64	6.51	6.57	6.72	6.76	7.01
	6H	6.12	6.18	6.34	6.38	6.63	6.49	6.55	6.71	6.75	7.00
	8H	6.11	6.17	6.33	6.38	6.63	6.48	6.54	6.70	6.75	7.00
	12H	6.10	6.16	6.32	6.37	6.63	6.47	6.53	6.69	6.74	7.00
4H	2H	6.80	6.86	7.01	7.05	7.30	7.59	7.65	7.80	7.85	8.10
	3H	6.83	6.90	7.06	7.10	7.36	7.60	7.66	7.82	7.87	8.12
	4H	6.82	6.88	7.05	7.10	7.35	7.58	7.64	7.81	7.86	8.12
	6H	6.80	6.86	7.04	7.08	7.35	7.56	7.62	7.80	7.84	8.11
	8H	6.79	6.85	7.03	7.07	7.34	7.55	7.61	7.79	7.83	8.10
	12H	6.77	6.83	7.02	7.07	7.34	7.53	7.59	7.78	7.82	8.09
8H	4H	6.77	6.83	6.99	7.04	7.29	7.63	7.69	7.85	7.90	8.15
	6H	6.76	6.82	7.01	7.06	7.33	7.59	7.65	7.85	7.89	8.16
	8H	6.74	6.80	7.01	7.05	7.32	7.58	7.63	7.84	7.88	8.16
	12H	6.73	6.78	7.00	7.04	7.32	7.56	7.61	7.83	7.87	8.15
12H	4H	6.77	6.83	7.02	7.06	7.33	7.62	7.68	7.87	7.91	8.18
	6H	6.74	6.80	7.01	7.05	7.32	7.59	7.65	7.86	7.90	8.17

C Range: 0 - 360 Deg
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Test Speed: High
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Operators: QC01
Test Date: 2024/10/27 14:07:44

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: 2024/10/27 14:07:44

ZONAL LUMINOUS FLUX TABLE

Gamma [deg]	Imean [cd]	Zonal Flux [lm]	Sum Flux [lm]	Zonal Flux [%]	Sum Flux [%]
0	4760.46	0.00	0.00	0.00	0.00
5	4339.54	105.94	105.94	8.92	8.92
10	3008.17	240.50	346.44	20.24	29.16
15	1675.65	238.96	585.41	20.11	49.27
20	904.06	178.62	764.02	15.03	64.30
25	600.84	140.36	904.38	11.81	76.12
30	404.84	117.44	1021.82	9.88	86.00
35	166.35	68.60	1090.43	5.77	91.77
40	57.78	26.72	1117.15	2.25	94.02
45	37.08	15.24	1132.39	1.28	95.31
50	30.63	13.06	1145.45	1.10	96.41
55	25.92	11.85	1157.30	1.00	97.40
60	21.26	10.45	1167.75	0.88	98.28
65	16.37	8.68	1176.43	0.73	99.01
70	10.34	6.17	1182.61	0.52	99.53
75	4.89	3.34	1185.95	0.28	99.81
80	1.98	1.47	1187.42	0.12	99.94
85	0.72	0.55	1187.97	0.05	99.98
90	0.16	0.19	1188.16	0.02	100.00

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
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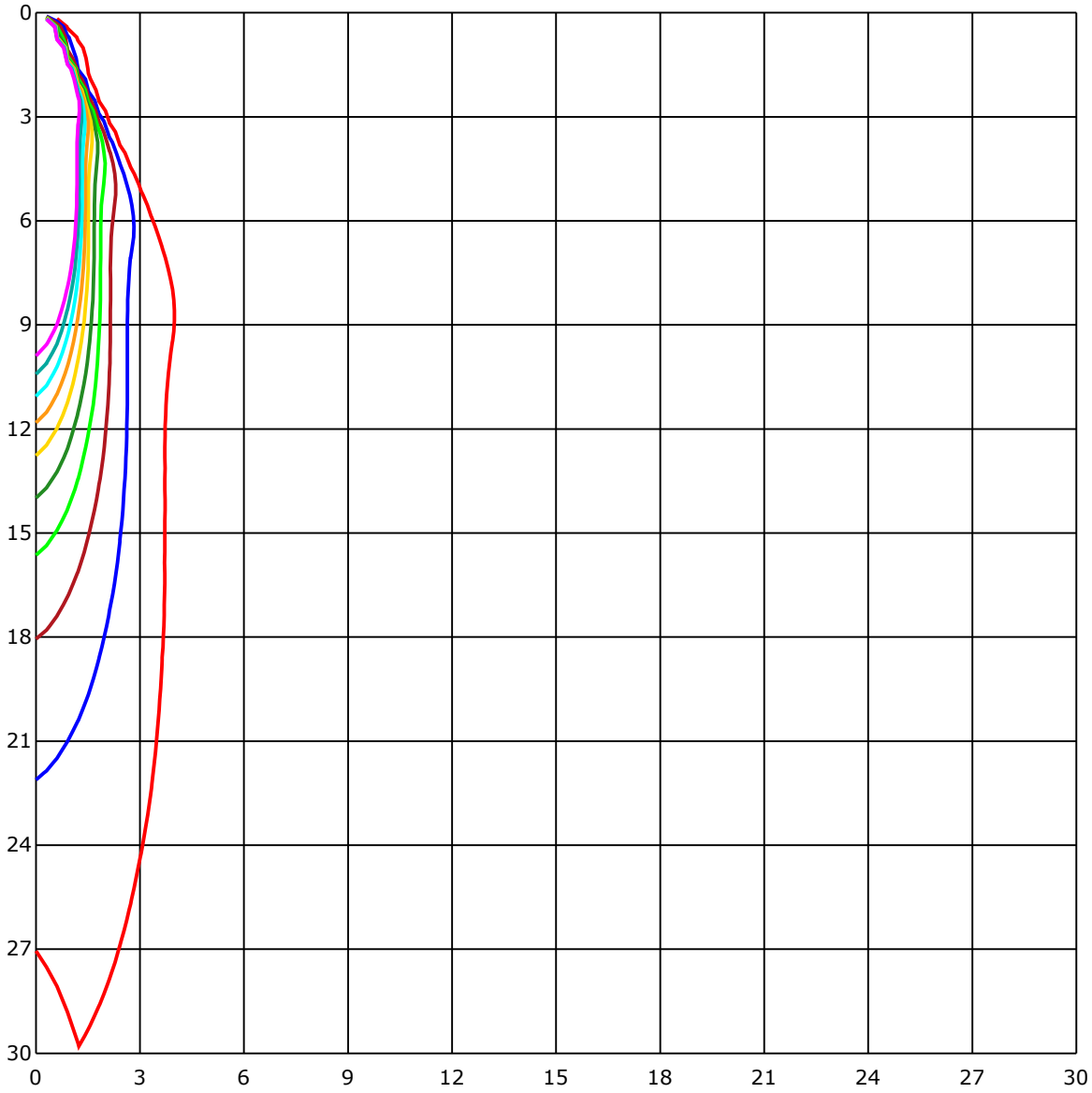
Operators: QC01
Test Date: 2024/10/27 14:07:44

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

SPACE ISOLX DIAGRAM



Unit of illumination:lx

48.751	24.375
43.876	19.5
39.001	14.625
34.126	9.75
29.25	4.875

C Range: 0 - 360 Deg
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

Report No.:
Test Time: 2024/10/27 14:07:44

LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	4768.11	4659.36	4832.76	4781.61	4768.11	4659.36	4832.76	4781.61	4768.11	
G1	4629.96	4436.57	4728.74	4711.9	4869.68	4814.44	4864.44	4790.19	4629.96	
G2	4432.86	4174.17	4585.85	4587.15	4914.24	4916.47	4820.1	4752.81	4432.86	
G3	4189.99	3881.22	4397.57	4413.38	4883.17	4976.39	4729.16	4645.68	4189.99	
G4	3926.02	3578.29	4186.05	4198.15	4791.02	4950.0	4594.06	4492.73	3926.02	
G5	3618.08	3267.52	3911.18	3947.35	4654.86	4878.16	4387.74	4286.45	3618.08	
G6	3291.96	2937.37	3615.99	3680.59	4478.59	4736.86	4151.77	4044.09	3291.96	
G7	2969.55	2603.65	3310.93	3383.88	4250.37	4545.55	3887.25	3777.43	2969.55	
G8	2662.45	2308.6	2995.71	3072.97	3986.03	4320.49	3573.88	3472.64	2662.45	
G9	2356.69	2029.33	2703.96	2779.46	3708.05	4047.85	3268.82	3171.2	2356.69	
G10	2058.82	1778.06	2417.63	2495.08	3419.36	3742.09	2951.98	2875.37	2058.82	
G11	1801.94	1547.11	2133.07	2215.39	3098.94	3430.49	2642.09	2570.95	1801.94	
G12	1572.29	1345.19	1874.24	1948.72	2798.24	3125.33	2343.15	2272.89	1572.29	
G13	1353.81	1166.45	1643.62	1705.57	2507.6	2824.03	2061.23	2003.54	1353.81	
G14	1180.46	1026.07	1438.96	1483.02	2233.24	2505.98	1787.52	1749.96	1180.46	
G15	1037.99	909.53	1266.72	1303.63	1970.06	2218.12	1541.36	1523.97	1037.99	
G16	917.13	815.99	1112.56	1150.41	1728.86	1953.64	1341.71	1320.93	917.13	
G17	821.46	742.71	989.81	1016.38	1512.56	1706.55	1171.97	1155.97	821.46	
G18	745.91	684.98	884.11	907.53	1329.79	1489.51	1025.75	1016.01	745.91	
G19	688.36	637.9	803.28	817.7	1171.51	1298.9	908.0	906.79	688.36	
G20	641.29	599.74	735.06	746.98	1035.53	1136.08	817.1	815.48	641.29	
G21	602.75	568.94	682.19	690.45	926.59	1002.74	743.46	746.66	602.75	
G22	571.35	541.72	639.48	642.96	839.22	897.24	683.86	690.49	571.35	
G23	544.32	513.43	603.26	603.82	767.8	811.3	639.85	648.01	544.32	
G24	514.26	480.55	572.93	570.15	711.78	744.43	601.64	610.96	514.26	
G25	482.91	441.59	542.74	537.96	664.8	690.59	572.65	583.27	482.91	
G26	443.4	393.45	509.21	503.23	627.47	648.29	544.5	556.56	443.4	
G27	397.12	336.88	469.51	468.26	594.45	614.48	517.19	527.39	397.12	
G28	342.86	280.99	422.76	422.58	562.82	583.04	487.18	498.54	342.86	
G29	284.75	223.44	369.34	370.73	531.89	552.52	450.64	455.41	284.75	
G30	228.36	171.22	308.22	313.92	495.9	521.64	402.13	403.89	228.36	
G31	176.51	127.67	249.41	257.29	448.74	486.21	348.05	347.77	176.51	
G32	132.17	94.38	195.71	202.8	392.48	440.29	289.57	287.21	132.17	
G33	99.24	72.86	150.54	155.45	332.7	384.78	233.83	232.16	99.24	
G34	77.36	58.2	115.38	118.4	273.94	327.14	180.5	179.85	77.36	
G35	62.47	48.42	91.08	90.48	218.06	266.62	136.67	138.29	62.47	
G36	53.01	41.92	74.57	73.09	168.81	210.69	102.4	106.85	53.01	

C Range: 0 - 360 Deg
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	45.68	37.89	63.58	60.06	129.3	161.81	78.28	88.44	45.68	
G38	41.14	35.29	55.93	51.06	101.05	123.5	63.3	74.25	41.14	
G39	37.66	32.97	50.46	44.47	82.32	97.16	53.01	64.23	37.66	
G40	35.34	31.67	46.28	40.21	69.84	77.63	45.49	56.81	35.34	
G41	33.48	30.28	43.69	37.47	60.85	65.3	40.95	51.48	33.48	
G42	32.14	29.31	41.09	35.38	54.49	56.49	37.33	47.49	32.14	
G43	30.84	28.38	39.37	33.72	50.04	50.69	35.2	44.89	30.84	
G44	29.77	27.69	37.66	32.42	46.61	46.42	33.53	42.57	29.77	
G45	28.89	26.81	36.22	31.12	44.15	43.69	32.05	40.76	28.89	
G46	28.15	26.06	34.92	30.05	42.11	41.55	30.75	38.96	28.15	
G47	27.27	25.32	34.04	28.89	40.12	39.7	29.96	37.47	27.27	
G48	26.43	24.63	32.7	27.92	38.54	38.12	28.89	36.27	26.43	
G49	25.65	23.7	31.67	26.94	37.05	36.73	28.01	35.25	25.65	
G50	24.86	22.96	30.56	26.06	35.85	35.66	27.32	33.99	24.86	
G51	23.88	22.08	29.45	25.18	34.5	34.36	26.62	33.02	23.88	
G52	23.23	21.43	28.47	24.07	33.48	33.3	25.79	32.19	23.23	
G53	22.26	20.5	27.59	23.1	32.37	32.32	25.18	31.12	22.26	
G54	21.38	19.76	26.34	22.17	31.26	31.77	24.58	30.1	21.38	
G55	20.45	18.78	25.37	21.19	30.19	30.65	23.84	29.03	20.45	
G56	19.71	17.95	24.25	20.41	29.03	29.77	23.1	27.96	19.71	
G57	18.78	17.25	23.33	19.39	27.83	28.85	22.45	26.99	18.78	
G58	17.95	16.05	22.31	18.64	26.9	27.87	21.47	25.97	17.95	
G59	17.11	15.35	21.38	17.99	25.69	26.94	20.64	25.0	17.11	
G60	16.19	14.56	20.36	16.93	24.81	25.92	19.94	23.88	16.19	
G61	15.16	13.59	19.34	16.09	23.74	25.0	19.25	23.05	15.16	
G62	14.19	12.75	18.41	15.03	22.82	24.07	18.27	21.89	14.19	
G63	13.12	11.41	17.3	13.96	21.56	22.96	17.39	21.05	13.12	
G64	12.24	10.25	16.19	13.08	20.87	22.12	16.46	19.76	12.24	
G65	10.85	8.9	15.16	12.2	19.66	21.1	15.54	18.64	10.85	
G66	9.55	7.47	13.91	11.08	18.64	20.17	14.56	17.44	9.55	
G67	8.02	5.75	12.52	9.97	17.72	19.25	13.59	16.23	8.02	
G68	6.31	4.59	10.85	8.72	16.42	18.23	12.43	14.79	6.31	
G69	5.05	3.94	9.18	7.42	15.26	17.21	11.27	13.4	5.05	
G70	4.31	3.39	8.02	5.8	13.87	16.05	9.83	11.69	4.31	
G71	3.57	2.55	7.19	4.82	12.57	14.52	8.16	9.83	3.57	
G72	2.88	1.99	6.35	4.08	10.94	13.17	6.35	8.49	2.88	
G73	2.18	1.3	5.66	3.48	9.23	11.64	5.19	7.74	2.18	

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/10/27 14:07:44

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: 2024/10/27 14:07:44

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G74	1.67	0.83	4.87	2.69	8.3	9.74	4.31	6.72	1.67	
G75	1.16	0.37	4.13	2.04	7.23	8.49	3.62	5.98	1.16	
G76	0.7	0.0	3.57	1.44	6.54	7.61	3.06	5.24	0.7	
G77	0.19	0.0	3.06	0.93	5.7	6.77	2.37	4.54	0.19	
G78	0.0	0.0	2.46	0.37	5.01	6.08	1.72	3.9	0.0	
G79	0.0	0.0	1.99	0.0	4.27	5.24	1.11	3.25	0.0	
G80	0.0	0.0	1.44	0.0	3.71	4.41	0.6	2.69	0.0	
G81	0.0	0.0	1.25	0.0	3.06	3.8	0.37	2.13	0.0	
G82	0.0	0.0	0.97	0.0	2.64	3.29	0.0	1.67	0.0	
G83	0.0	0.0	0.97	0.0	2.04	2.6	0.0	1.25	0.0	
G84	0.0	0.0	0.83	0.0	1.62	2.23	0.0	1.11	0.0	
G85	0.0	0.0	0.65	0.0	1.39	1.76	0.0	1.07	0.0	
G86	0.0	0.0	0.42	0.0	1.25	1.44	0.0	0.93	0.0	
G87	0.0	0.0	0.28	0.0	1.02	1.25	0.0	0.65	0.0	
G88	0.0	0.0	0.09	0.0	0.93	0.93	0.0	0.51	0.0	
G89	0.0	0.0	0.0	0.0	0.56	0.56	0.0	0.14	0.0	
G90	0.0	0.0	0.0	0.0	0.0	0.56	0.0	0.14	0.0	

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/10/27 14:07:44

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