

Report No.:

Test Time: 2021/10/18 9:48:55

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: 0
Luminaire Type: LHLSS730BN30
Lamp Type:
Luminous Width: 0 mm
Luminous Length: 0 mm
Luminous Height: 0 mm

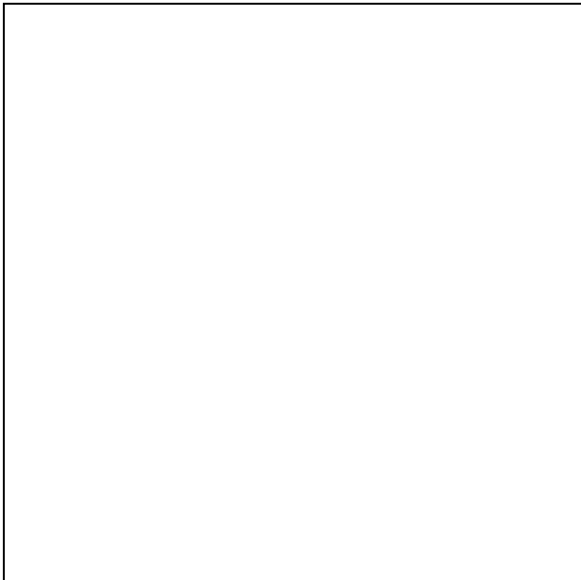
Voltage(V): 219.60 V
Current(A): 0.1450 A
Power(W): 30.81 W
Power Factor: 0.9650
Lamp Luminous Flux: 2010.53

Photometric Results

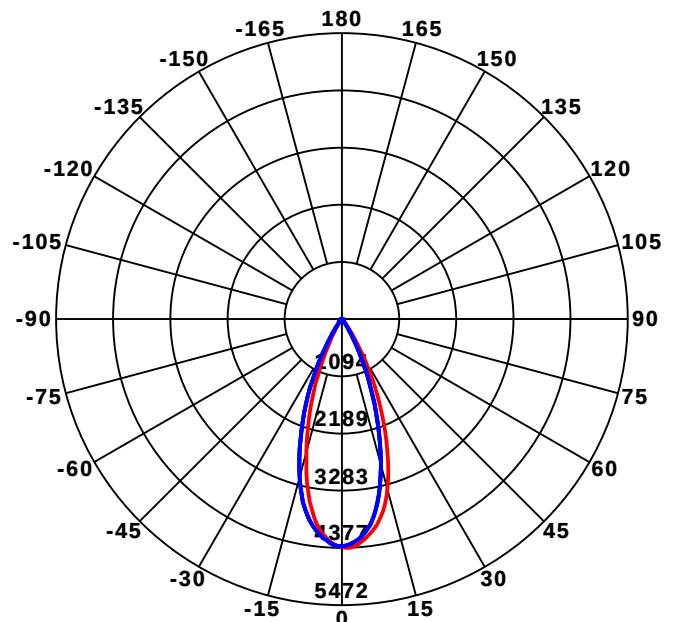
CIE Class: Direct
Luminaire Luminous Flux: 2010.533 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 65.26 lm/W
Beam Angle(50%) C0-180,C90-270: 38.9,39.1
Field Angle(10%) C0-180,C90-270: 61.8,62.2
S/MH C0-180,C90-270: 0.650,0.650

Max. Intensity: 4377.36 cd
Max.Intensity Angle: C=0 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 4362.00 cd
Effective Luminous Flux: 1811.18 lm
ERP(ϕ use)(120deg): 1982.01 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 38.9 deg,39.1 deg

C0-180 — C90-270 —

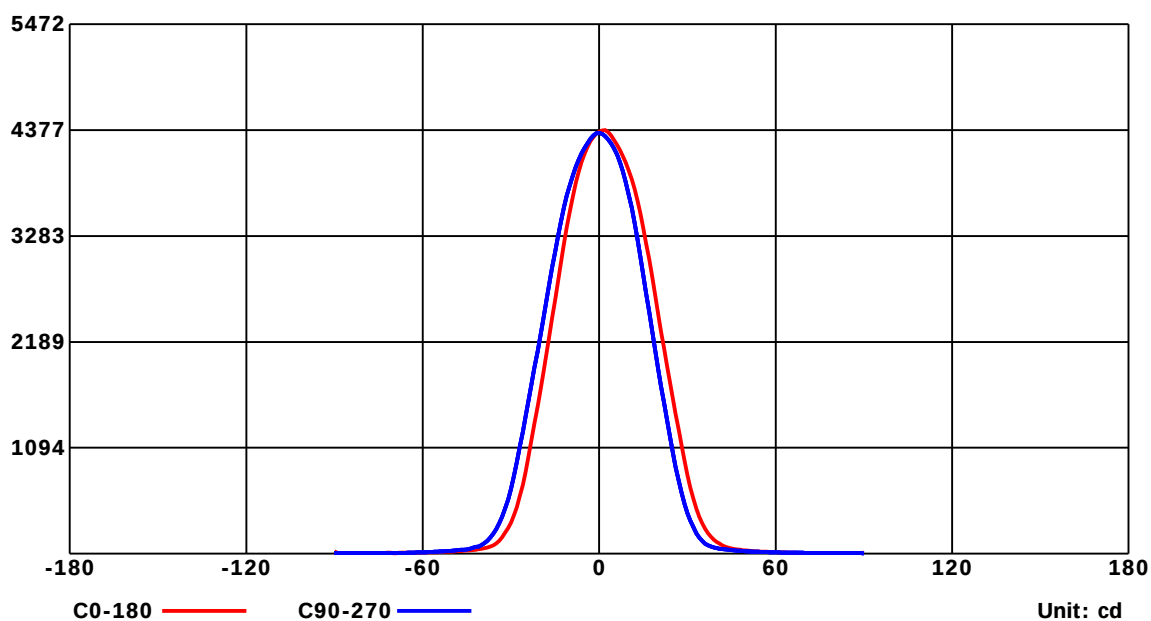
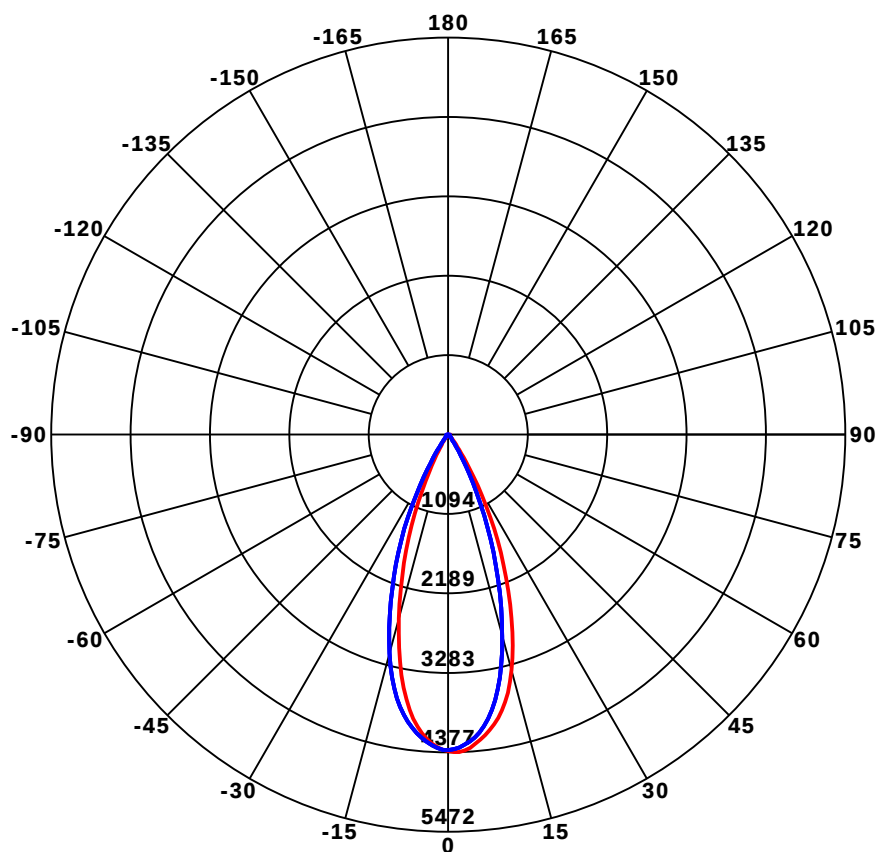
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2021/10/18 9:48:55

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1800B Goniophotometer
Humidity:
Test Distance: 6.22 m
Remarks:

Report No.:

Test Time: 2021/10/18 9:48:55

Luminous Intensity Distribution Curve



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2021/10/18 9:48:55

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity:

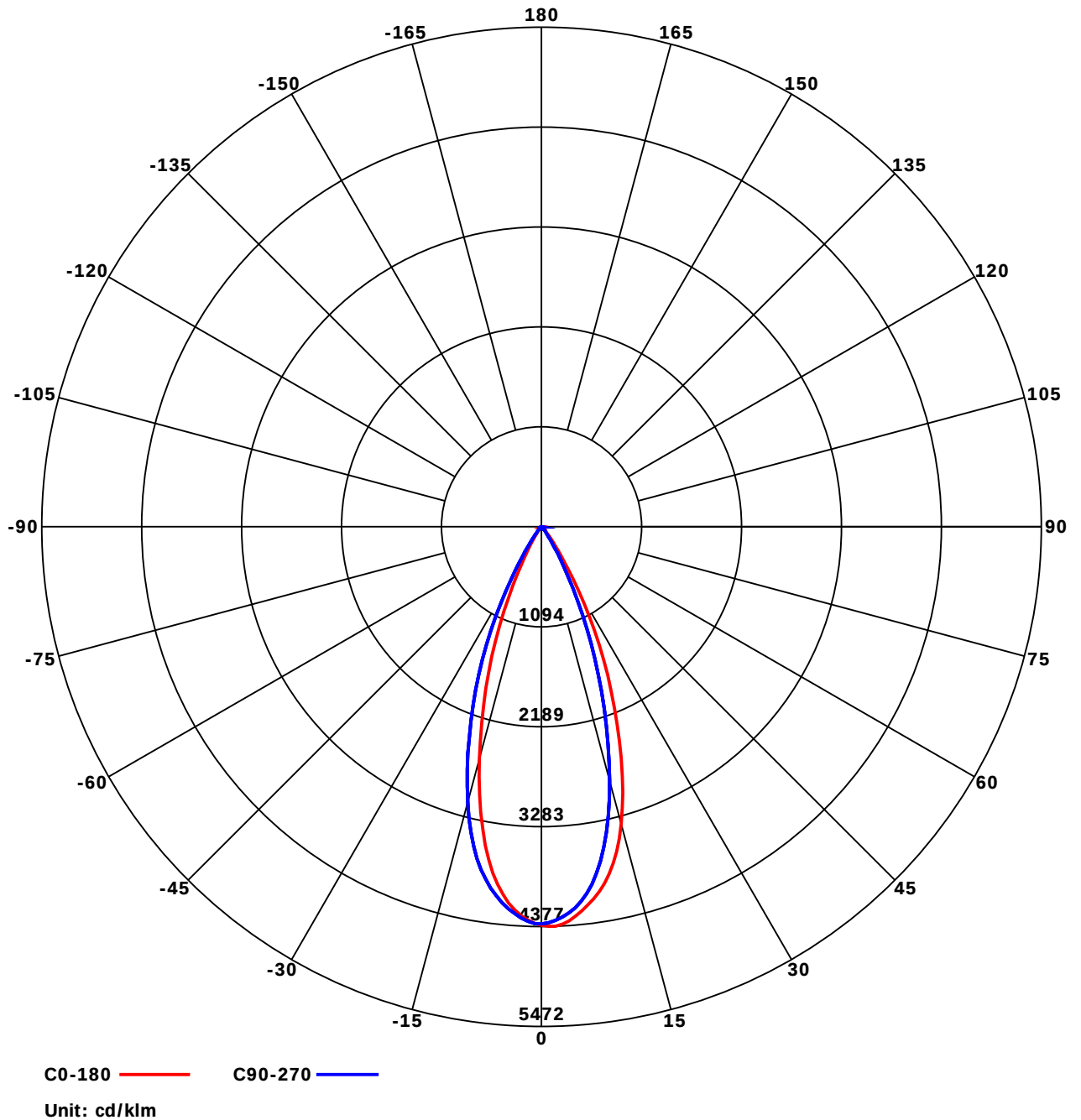
Test Distance: 6.22 m

Remarks:

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Luminous Intensity Distribution Curve



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2021/10/18 9:48:55

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1800B Goniophotometer
Humidity:
Test Distance: 6.22 m
Remarks:

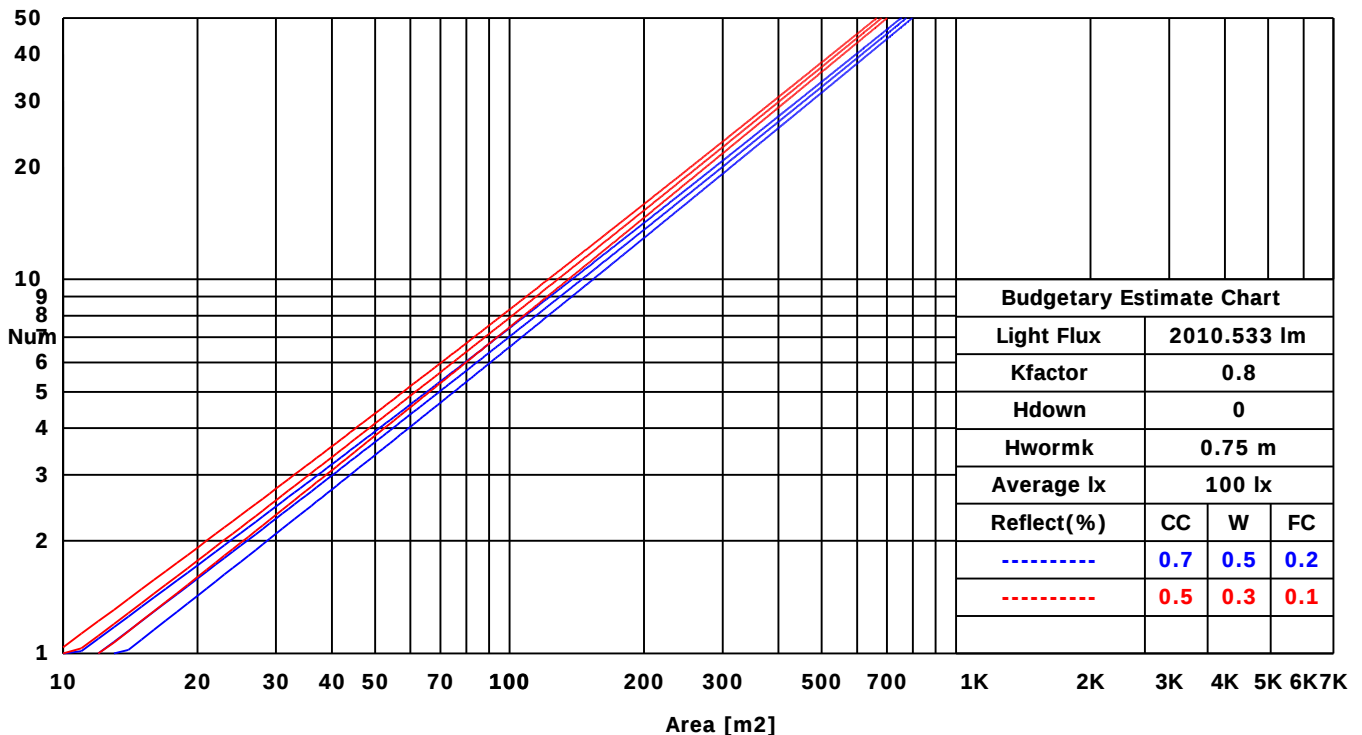
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UTILIZATION FACTORS TABLE

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	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	0.99	0.97	0.95	0.98	0.95	0.93	0.95	0.92	0.89	0.90	0.87	0.85	0.84	0.81	0.79	0.74
2	0.95	0.93	0.92	0.94	0.92	0.90	0.91	0.88	0.86	0.88	0.84	0.82	0.83	0.79	0.76	0.71
3	0.92	0.90	0.89	0.91	0.89	0.87	0.89	0.86	0.83	0.85	0.82	0.79	0.81	0.77	0.74	0.69
4	0.89	0.88	0.86	0.88	0.86	0.85	0.86	0.83	0.81	0.83	0.79	0.77	0.79	0.75	0.72	0.68
5	0.87	0.85	0.84	0.86	0.84	0.82	0.84	0.81	0.79	0.81	0.77	0.74	0.77	0.73	0.70	0.66
6	0.85	0.83	0.82	0.84	0.82	0.80	0.82	0.79	0.77	0.79	0.75	0.73	0.76	0.72	0.68	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	0.81	0.80	0.79	0.80	0.78	0.77	0.78	0.75	0.73	0.75	0.72	0.69	0.73	0.69	0.66	0.62
9	0.79	0.78	0.77	0.78	0.77	0.76	0.76	0.74	0.72	0.74	0.70	0.68	0.71	0.67	0.64	0.61
10	0.78	0.77	0.76	0.77	0.75	0.74	0.75	0.72	0.70	0.72	0.69	0.67	0.70	0.66	0.63	0.60

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2021/10/18 9:48:55

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity:

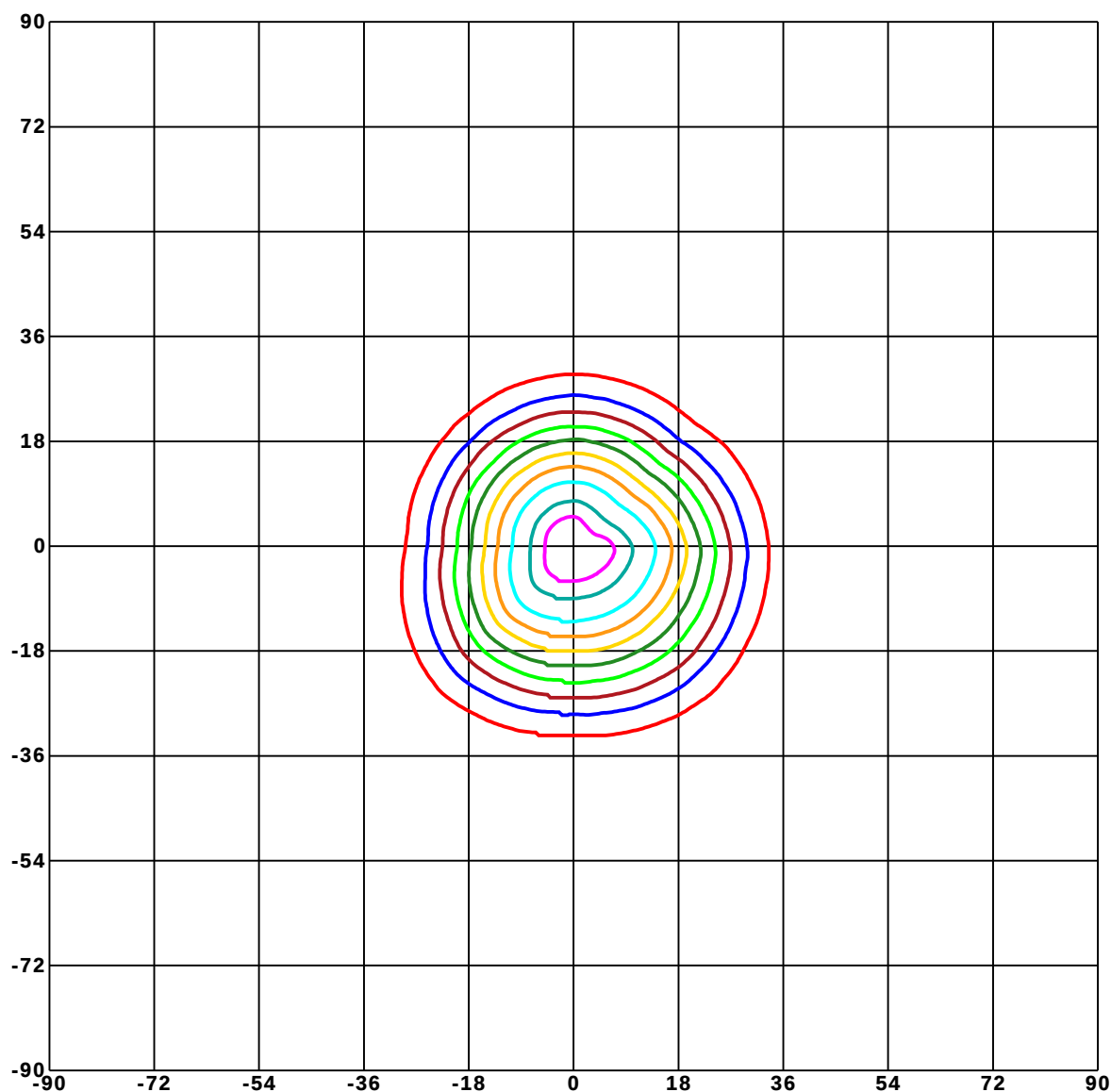
Test Distance: 6.22 m

Remarks:

Report No.:

Test Time: 2021/10/18 9:48:55

ISOCANDELA DIAGRAM (RECTANGULAR)



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2021/10/18 9:48:55

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity:

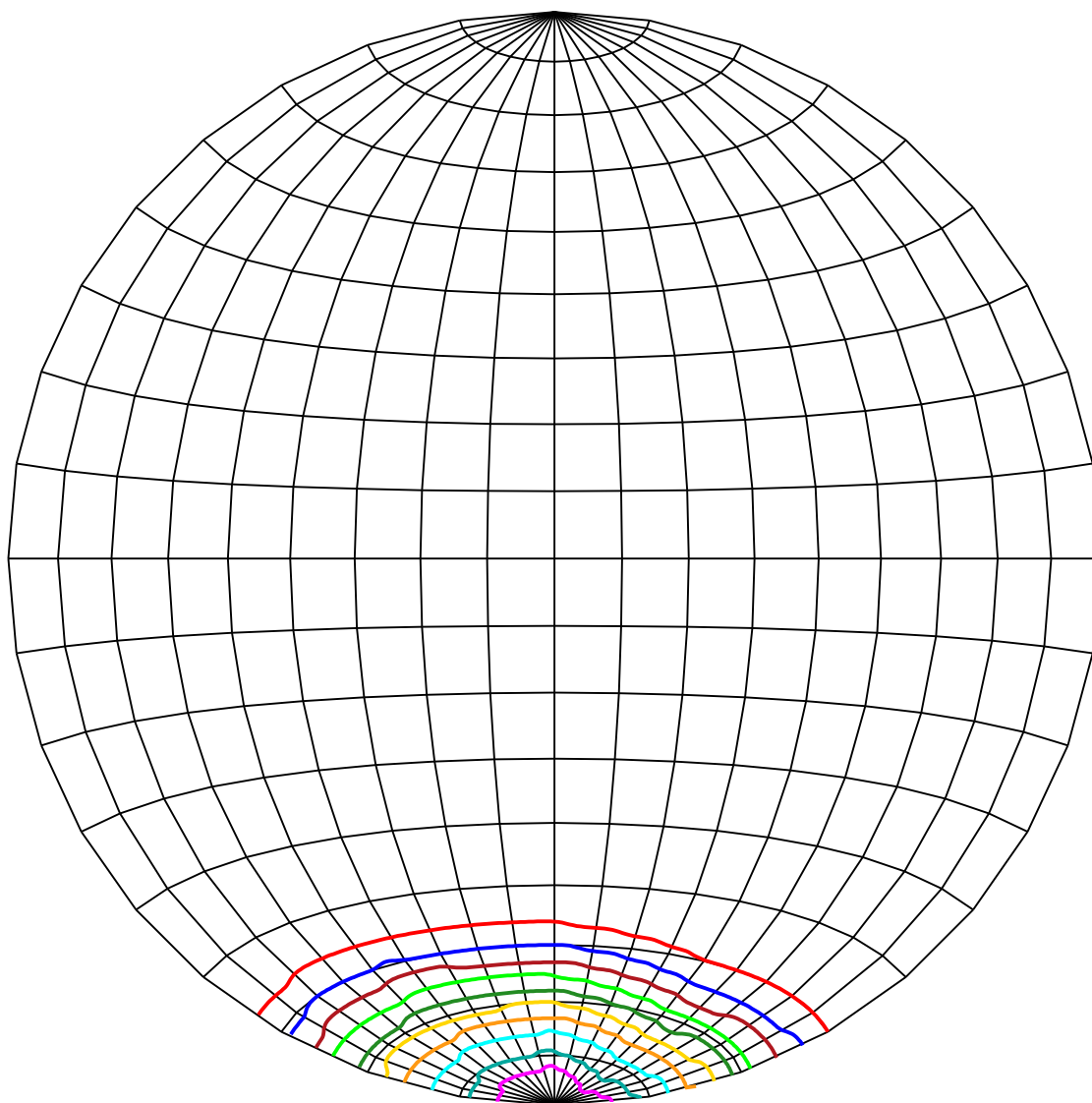
Test Distance: 6.22 m

Remarks:

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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd Imax(100%): 4377.36 cd

4158.492(95%Imax)

2188.68(50%Imax)

3939.624(90%Imax)

1750.944(40%Imax)

3501.888(80%Imax)

1313.208(30%Imax)

3064.152(70%Imax)

875.472(20%Imax)

2626.416(60%Imax)

437.736(10%Imax)

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2021/10/18 9:48:55

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity:

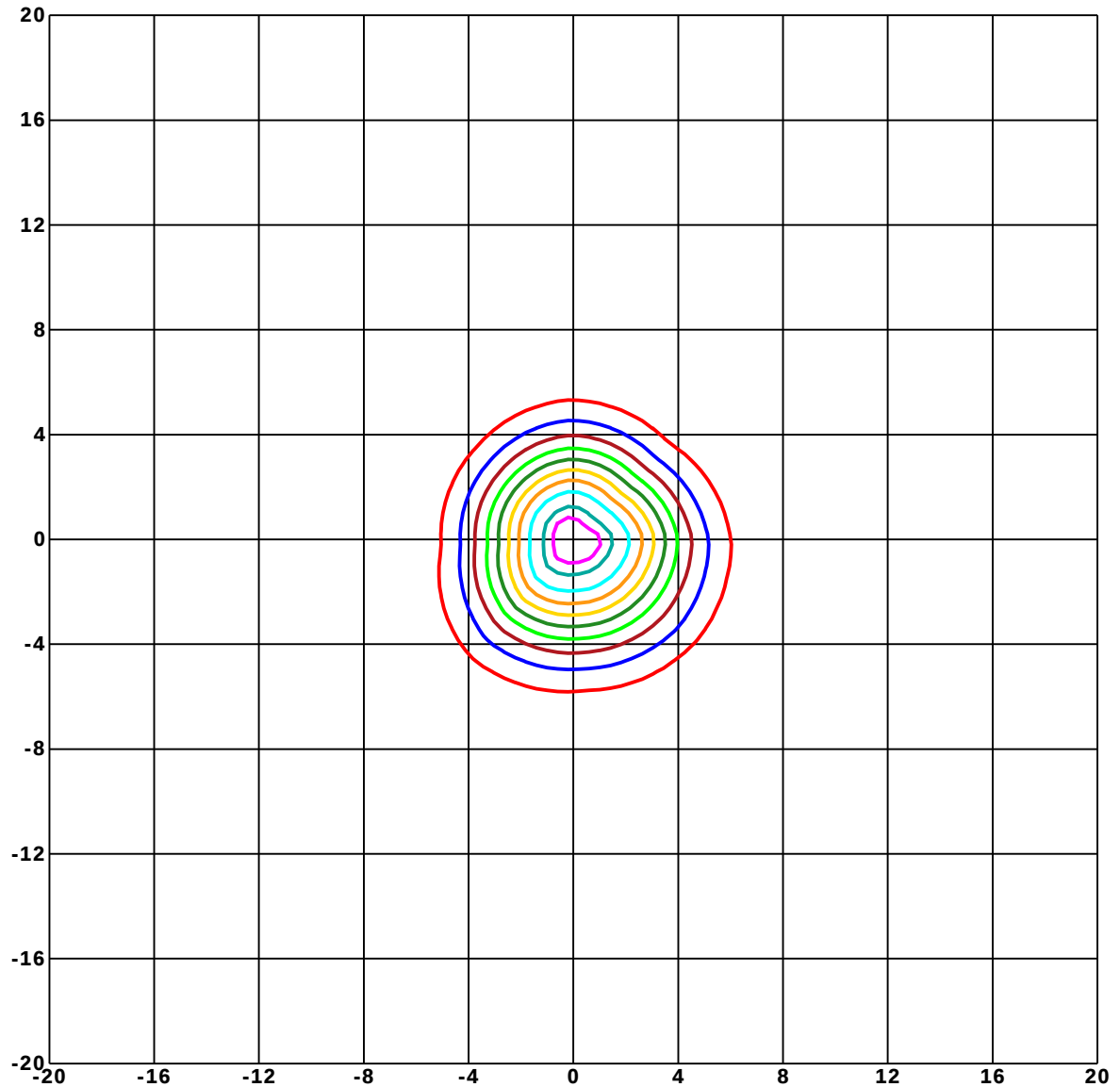
Test Distance: 6.22 m

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ISOLX DIAGRAM



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

41.544(1%E _{max})	21.865(0%E _{max})
39.358(1%E _{max})	17.492(0%E _{max})
34.985(1%E _{max})	13.119(0%E _{max})
30.612(1%E _{max})	8.746(0%E _{max})
26.238(1%E _{max})	4.373(0%E _{max})

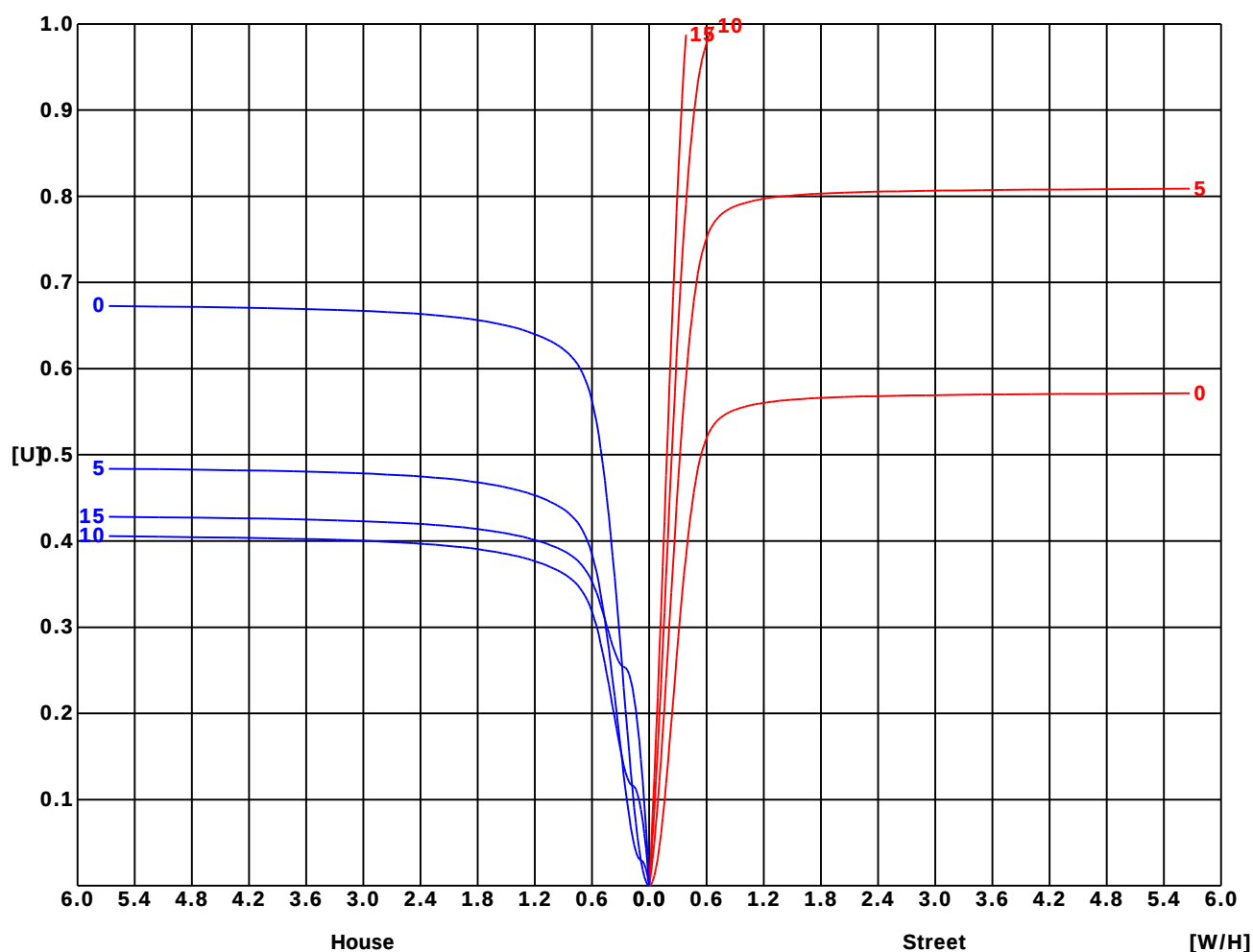
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2021/10/18 9:48:55

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1800B Goniophotometer
Humidity:
Test Distance: 6.22 m
Remarks:

Report No.:

Test Time: 2021/10/18 9:48:55

UTILIZATION FACTOR DIAGRAM (ROAD)



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2021/10/18 9:48:55

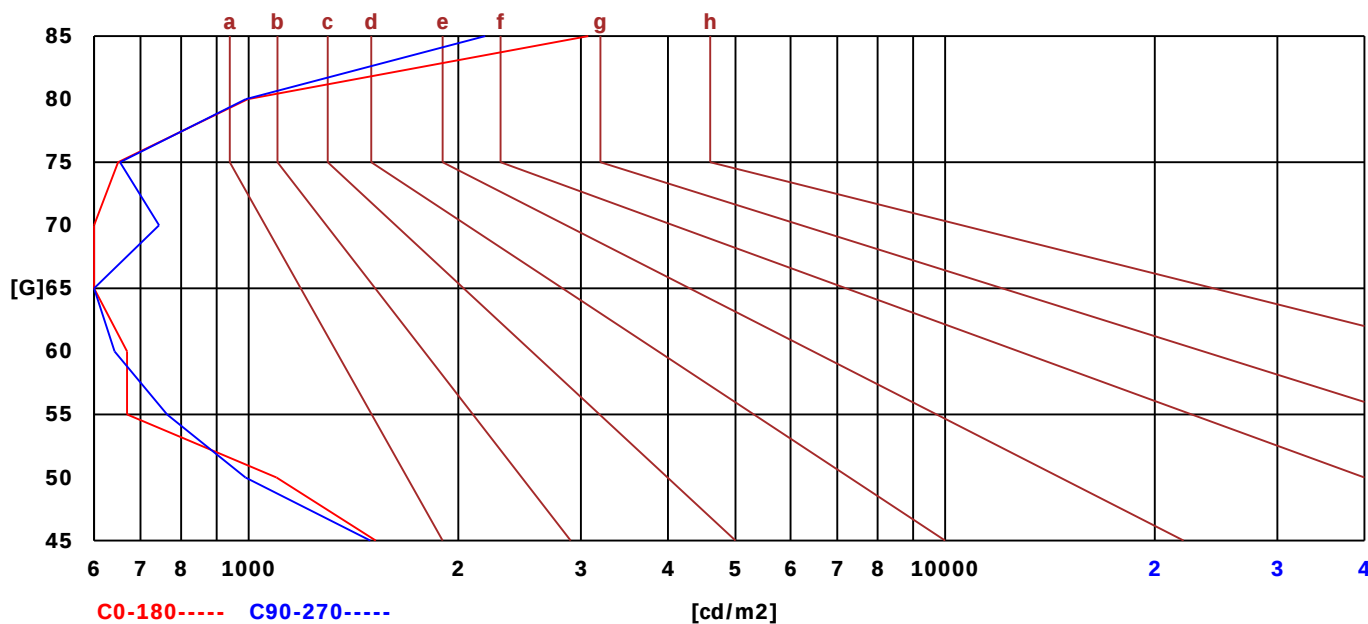
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1800B Goniophotometer
Humidity:
Test Distance: 6.22 m
Remarks:

Report No.:

Test Time: 2021/10/18 9:48:55

BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	1522	1097	669	669	549	518	650	997	3074
C90	1495	990	764	642	524	744	654	991	2186
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:

Operators:

Test Date: 2021/10/18 9:48:55

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity:

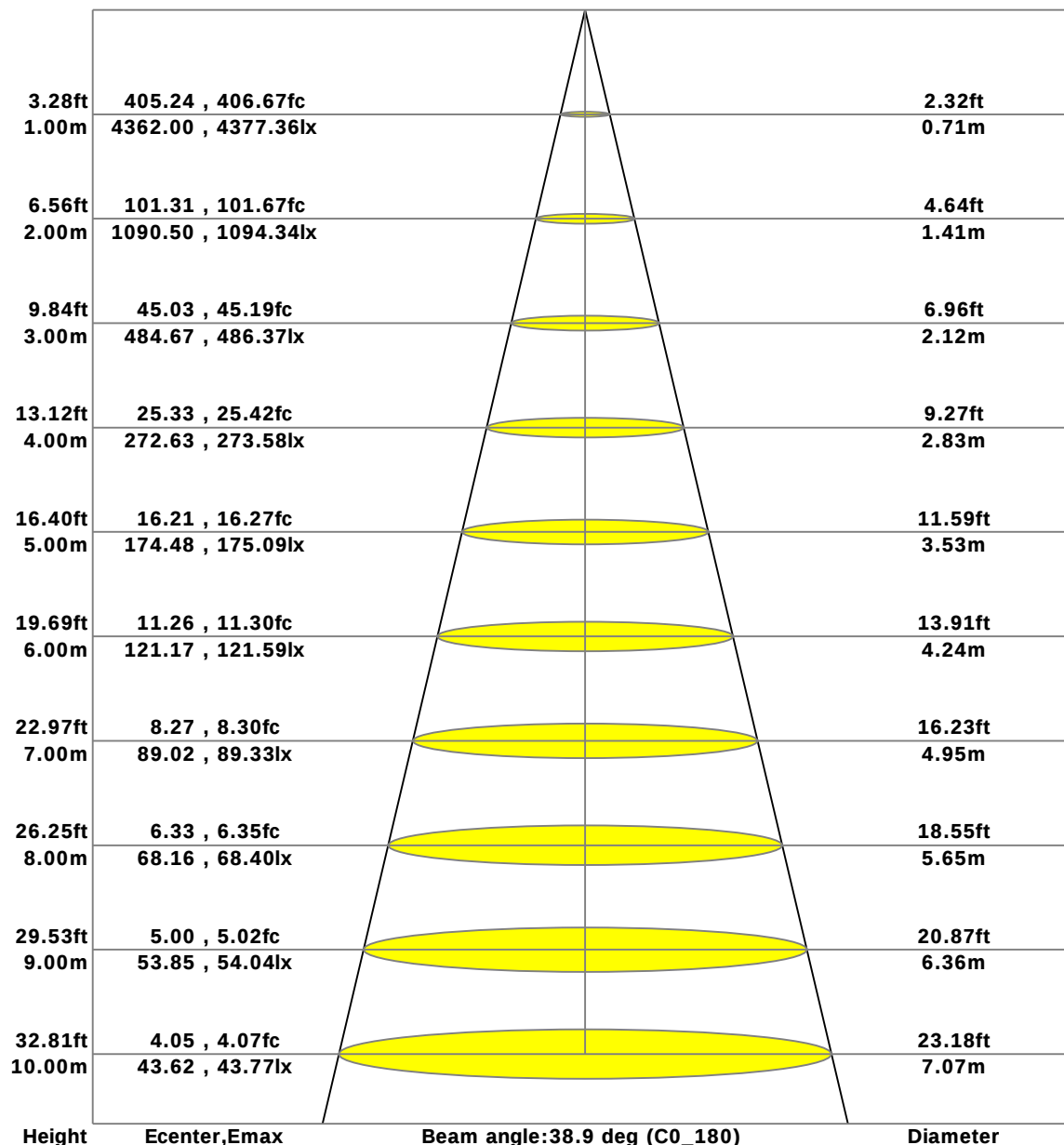
Test Distance: 6.22 m

Remarks:

Report No.:

Test Time: 2021/10/18 9:48:55

LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2021/10/18 9:48:55

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity:

Test Distance: 6.22 m

Remarks:

Report No.:

Test Time: 2021/10/18 9:48:55

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	5.40	5.45	5.60	5.64	5.88	3.48	3.53	3.68	3.72	3.96
3H	5.39	5.44	5.60	5.64	5.88	3.48	3.54	3.69	3.73	3.97
4H	5.39	5.44	5.60	5.63	5.88	3.48	3.53	3.69	3.73	3.98
6H	5.38	5.43	5.59	5.63	5.88	3.47	3.53	3.69	3.73	3.98
8H	5.37	5.42	5.59	5.62	5.88	3.47	3.52	3.68	3.72	3.97
12H	5.36	5.41	5.58	5.62	5.87	3.46	3.51	3.68	3.72	3.97
4H 2H	5.77	5.82	5.98	6.02	6.27	4.16	4.21	4.37	4.41	4.66
3H	5.84	5.89	6.06	6.09	6.35	4.28	4.34	4.51	4.54	4.80
4H	5.88	5.93	6.11	6.14	6.40	4.36	4.41	4.59	4.62	4.88
6H	5.91	5.96	6.14	6.18	6.44	4.41	4.46	4.65	4.68	4.95
8H	5.91	5.96	6.15	6.19	6.46	4.42	4.47	4.67	4.70	4.97
12H	5.91	5.96	6.16	6.19	6.46	4.43	4.48	4.68	4.71	4.98
8H 4H	6.32	6.37	6.54	6.58	6.83	5.10	5.15	5.32	5.36	5.61
6H	6.89	6.94	7.14	7.18	7.45	5.94	5.99	6.19	6.23	6.50
8H	6.97	7.02	7.23	7.26	7.54	6.05	6.09	6.31	6.34	6.62
12H	7.08	7.12	7.35	7.38	7.66	6.20	6.24	6.47	6.49	6.78
12H 4H	7.36	7.41	7.61	7.64	7.91	6.53	6.58	6.78	6.81	7.08
6H	7.70	7.75	7.97	8.00	8.27	6.97	7.02	7.23	7.26	7.54

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2021/10/18 9:48:55

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity:

Test Distance: 6.22 m

Remarks:

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ZONAL LUMINOUS FLUX TABLE

[illegible]

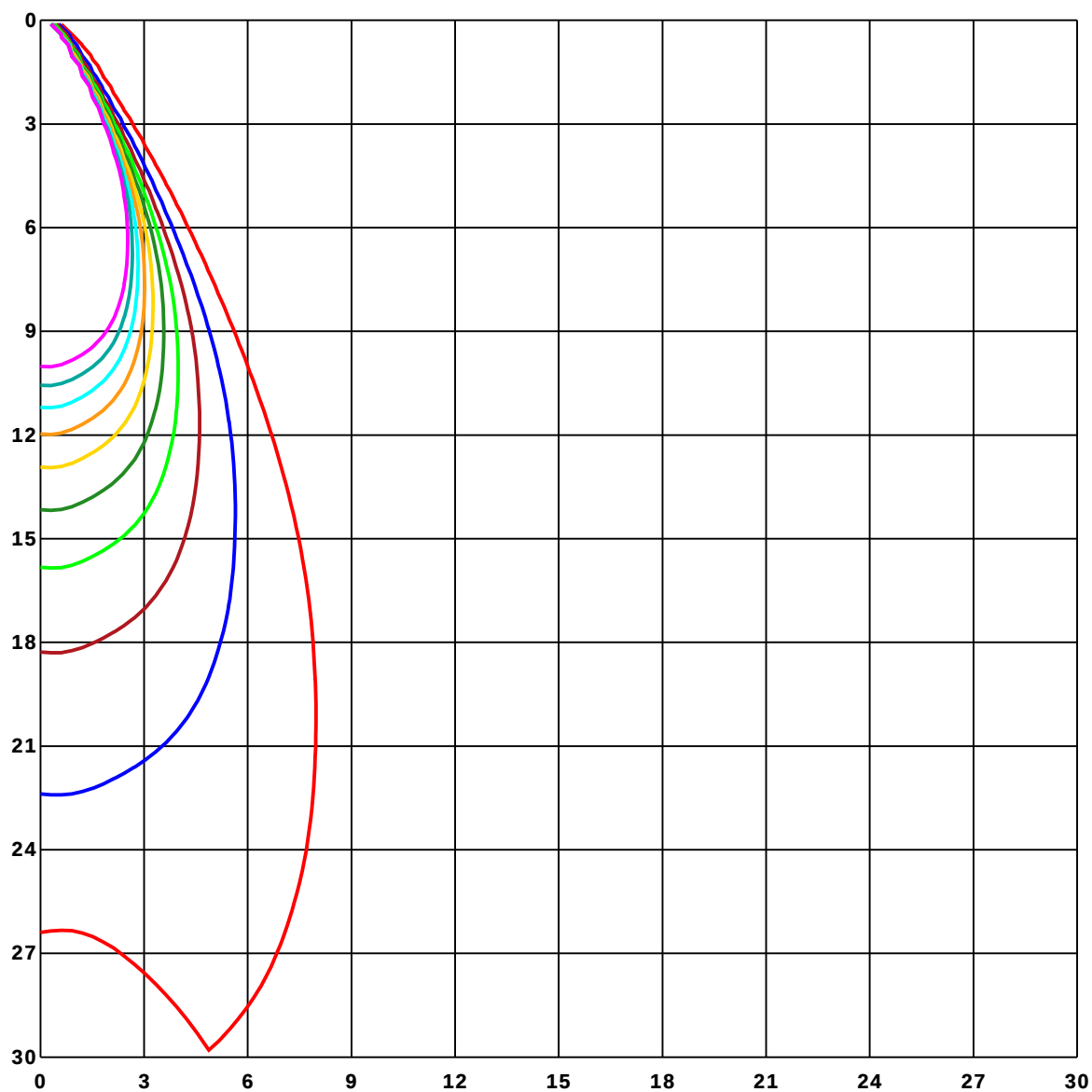
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2021/10/18 9:48:55

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1800B Goniophotometer
Humidity:
Test Distance: 6.22 m
Remarks:

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SPACE ISOLX DIAGRAM



Unit of illumination:lx

43.517
 39.166
 34.814
 30.462
 26.11

21.759
 17.407
 13.055
 8.703
 4.352

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2021/10/18 9:48:55

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity:

Test Distance: 6.22 m

Remarks:

Report No.:

Test Time: 2021/10/18 9:48:55

LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma/C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	4362.0	4286.17	4346.53	4364.98	4362.0	4286.17	4346.53	4364.98	4362.0	
G1	4375.08	4256.5	4336.81	4350.74	4342.23	4302.11	4344.55	4369.58	4375.08	
G2	4377.36	4220.94	4313.33	4323.89	4305.32	4299.02	4321.84	4356.43	4377.36	
G3	4357.13	4175.52	4280.99	4287.53	4266.63	4285.63	4288.76	4327.07	4357.13	
G4	4325.71	4129.14	4240.6	4238.9	4205.35	4260.33	4241.99	4284.93	4325.71	
G5	4277.85	4068.09	4191.15	4175.91	4135.64	4227.25	4194.98	4230.0	4277.85	
G6	4226.98	3999.72	4126.66	4100.78	4047.16	4184.46	4137.61	4172.66	4226.98	
G7	4171.46	3913.1	4047.19	4008.58	3944.67	4132.42	4070.02	4108.51	4171.46	
G8	4110.68	3812.12	3953.34	3900.06	3828.88	4070.41	3995.89	4033.58	4110.68	
G9	4042.16	3696.72	3840.68	3778.85	3690.56	3994.85	3908.69	3956.93	4042.16	
G10	3964.17	3563.55	3716.1	3641.2	3543.35	3905.67	3811.74	3863.93	3964.17	
G11	3871.35	3415.03	3575.74	3488.69	3374.36	3801.99	3701.63	3758.5	3871.35	
G12	3768.29	3253.93	3418.27	3317.22	3198.53	3684.68	3576.78	3640.62	3768.29	
G13	3650.95	3082.23	3248.63	3131.75	3012.51	3549.93	3435.69	3515.0	3650.95	
G14	3516.93	2906.0	3067.56	2942.79	2820.15	3402.14	3284.45	3372.04	3516.93	
G15	3365.54	2721.3	2880.55	2740.65	2626.21	3242.82	3123.86	3220.27	3365.54	
G16	3204.06	2534.13	2686.56	2539.78	2431.91	3075.61	2954.21	3058.32	3204.06	
G17	3038.82	2349.93	2492.27	2338.95	2240.6	2899.39	2781.93	2891.92	3038.82	
G18	2863.56	2163.49	2298.79	2140.32	2053.93	2716.31	2609.26	2718.52	2863.56	
G19	2677.43	1979.84	2108.13	1947.57	1870.78	2534.79	2429.32	2551.77	2677.43	
G20	2490.14	1798.78	1920.88	1755.41	1692.7	2351.56	2255.42	2383.36	2490.14	
G21	2302.54	1623.52	1739.28	1582.9	1519.45	2171.97	2086.93	2220.87	2302.54	
G22	2125.93	1450.04	1559.14	1405.32	1348.1	1992.1	1926.53	2062.21	2125.93	
G23	1946.88	1278.38	1387.68	1235.86	1180.65	1821.64	1756.57	1911.56	1946.88	
G24	1779.86	1109.62	1218.84	1066.68	1015.69	1660.82	1592.3	1761.44	1779.86	
G25	1611.41	946.43	1053.76	900.51	853.74	1498.36	1429.89	1618.22	1611.41	
G26	1443.39	799.19	893.55	753.65	711.21	1350.65	1261.32	1474.57	1443.39	
G27	1279.35	665.56	752.53	622.07	591.89	1203.83	1102.23	1334.87	1279.35	
G28	1116.82	549.84	624.66	507.67	482.06	1065.21	947.13	1187.62	1116.82	
G29	960.09	448.21	513.74	409.48	396.94	923.41	803.17	1039.91	960.09	
G30	812.22	367.85	419.11	333.26	321.69	785.1	673.18	881.63	812.22	
G31	680.88	300.22	342.82	266.37	264.32	658.52	560.9	740.34	680.88	
G32	564.62	244.74	271.24	217.58	214.72	549.72	464.3	619.05	564.62	
G33	464.14	201.76	210.08	177.85	169.57	456.6	382.9	514.94	464.14	
G34	382.67	166.98	165.01	146.55	134.21	377.79	316.12	422.9	382.67	
G35	314.0	139.59	133.17	122.02	107.32	312.49	255.85	353.46	314.0	
G36	258.75	118.54	105.04	103.18	88.29	258.71	209.03	290.63	258.75	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

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Test Date: 2021/10/18 9:48:55

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity:

Test Distance: 6.22 m

Remarks:

Report No.:

Test Time: 2021/10/18 9:48:55

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma/C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	211.51	101.4	87.09	91.42	74.51	215.42	165.66	243.35	211.51	
G38	174.25	88.13	74.01	77.34	64.57	180.17	132.24	203.77	174.25	
G39	142.99	77.57	64.3	68.56	56.83	154.08	108.83	171.12	142.99	
G40	119.16	68.9	56.95	61.71	50.84	127.98	91.0	143.96	119.16	
G41	102.8	62.21	51.34	55.87	46.08	113.28	74.24	123.07	102.8	
G42	83.3	56.18	46.77	50.76	42.17	94.36	68.75	105.81	83.3	
G43	71.38	51.49	42.75	49.99	38.49	82.99	60.35	89.8	71.38	
G44	61.59	47.05	39.31	42.13	35.13	73.59	49.68	81.79	61.59	
G45	54.32	43.06	36.1	42.29	32.73	65.89	43.91	73.04	54.32	
G46	48.24	40.08	33.62	35.44	30.06	62.13	39.54	66.2	48.24	
G47	43.1	36.64	31.14	35.28	27.74	55.17	40.04	60.28	43.1	
G48	39.38	33.54	29.36	29.98	26.0	50.8	36.33	51.34	39.38	
G49	35.32	31.03	26.97	27.35	24.06	46.97	33.66	51.38	35.32	
G50	32.81	28.2	25.34	25.46	22.17	43.37	30.87	47.32	32.81	
G51	29.87	26.08	23.83	23.29	20.39	40.43	28.71	43.99	29.87	
G52	27.86	24.18	22.38	21.74	19.5	37.37	26.46	40.66	27.86	
G53	25.57	22.13	20.93	20.39	18.14	34.74	24.92	37.45	25.57	
G54	25.57	16.67	19.62	19.07	16.98	32.19	22.52	34.39	25.57	
G55	22.01	15.36	18.57	17.53	15.55	30.14	21.01	29.64	22.01	
G56	20.43	17.87	17.33	16.6	14.78	27.82	19.46	29.21	20.43	
G57	19.65	16.64	16.29	15.67	13.85	26.42	18.07	27.55	19.65	
G58	17.91	15.55	15.36	14.82	13.27	24.37	16.71	25.81	17.91	
G59	16.98	14.28	14.31	13.97	12.5	22.59	15.63	23.79	16.98	
G60	15.51	13.39	13.42	12.84	11.41	21.09	15.44	21.98	15.51	
G61	12.84	12.5	12.77	11.84	9.79	19.65	15.67	20.66	12.84	
G62	13.85	11.68	12.42	11.37	9.59	18.42	12.61	18.96	13.85	
G63	13.23	10.91	11.1	8.59	9.56	16.83	11.95	17.6	13.23	
G64	12.3	10.25	10.6	8.2	9.44	15.63	10.87	16.44	12.3	
G65	11.61	9.29	9.96	8.86	9.59	14.28	9.75	15.28	11.61	
G66	10.76	8.67	9.32	8.28	9.59	13.46	9.13	14.31	10.76	
G67	9.73	8.7	9.21	7.16	9.56	12.26	8.51	13.35	9.73	
G68	8.7	8.2	9.21	7.23	9.71	14.12	7.78	12.3	8.7	
G69	8.24	7.27	9.17	9.63	5.07	10.6	7.23	11.41	8.24	
G70	8.09	7.08	8.98	10.18	4.72	9.94	7.0	10.81	8.09	
G71	7.93	8.36	8.82	8.51	9.17	9.32	6.93	10.21	7.93	
G72	8.16	7.31	8.98	6.85	9.36	8.43	6.85	9.48	8.16	
G73	7.97	7.08	8.86	6.67	7.64	8.05	6.93	8.74	7.97	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2021/10/18 9:48:55

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity:

Test Distance: 6.22 m

Remarks:

Report No.:

Test Time: 2021/10/18 9:48:55

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

[illegible]

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2021/10/18 9:48:55

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity:

Test Distance: 6.22 m

Remarks: