

Report No.:

Test Time: 2021/10/15 13:56:22

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: 0
Luminaire Type: LHLXS714BN30
Lamp Type:
Luminous Width: 0 mm
Luminous Length: 0 mm
Luminous Height: 0 mm

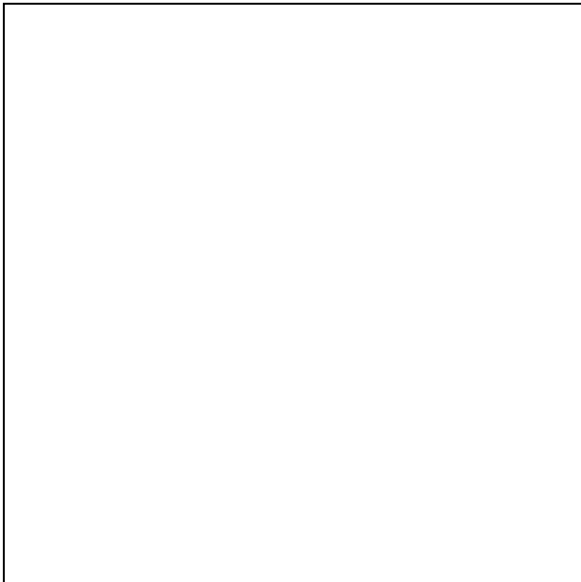
Voltage(V): 219.80 V
Current(A): 0.1210 A
Power(W): 14.83 W
Power Factor: 0.5560
Lamp Luminous Flux: 707.06

Photometric Results

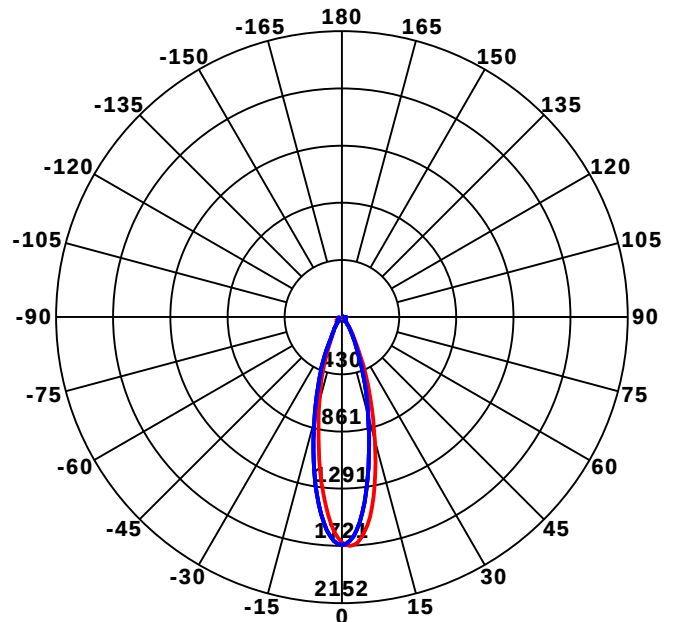
CIE Class: Direct
Luminaire Luminous Flux: 707.0604 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 47.68 lm/W
Beam Angle(50%) C0-180,C90-270: 28.1,27.9
Field Angle(10%) C0-180,C90-270: 57.5,57.2
S/MH C0-180,C90-270: 0.499,0.499

Max. Intensity: 1721.29 cd
Max.Intensity Angle: C=0 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 1694.36 cd
Effective Luminous Flux: 502.07 lm
ERP(φ_{use})(120deg): 623.91 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 28.1 deg,27.9 deg

C0-180 — C90-270

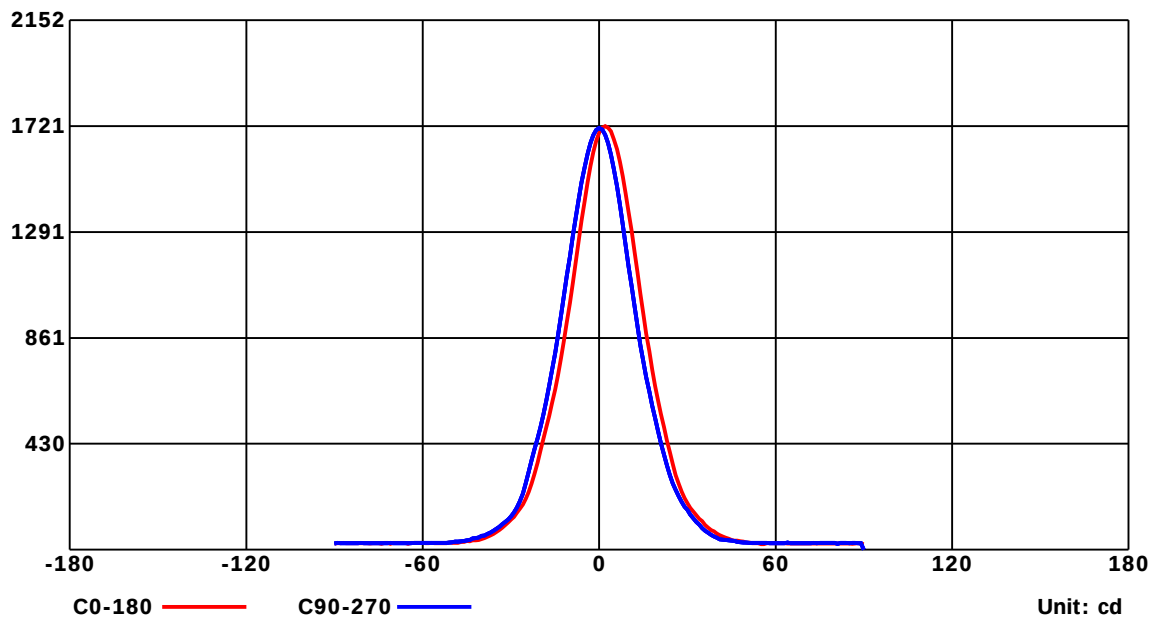
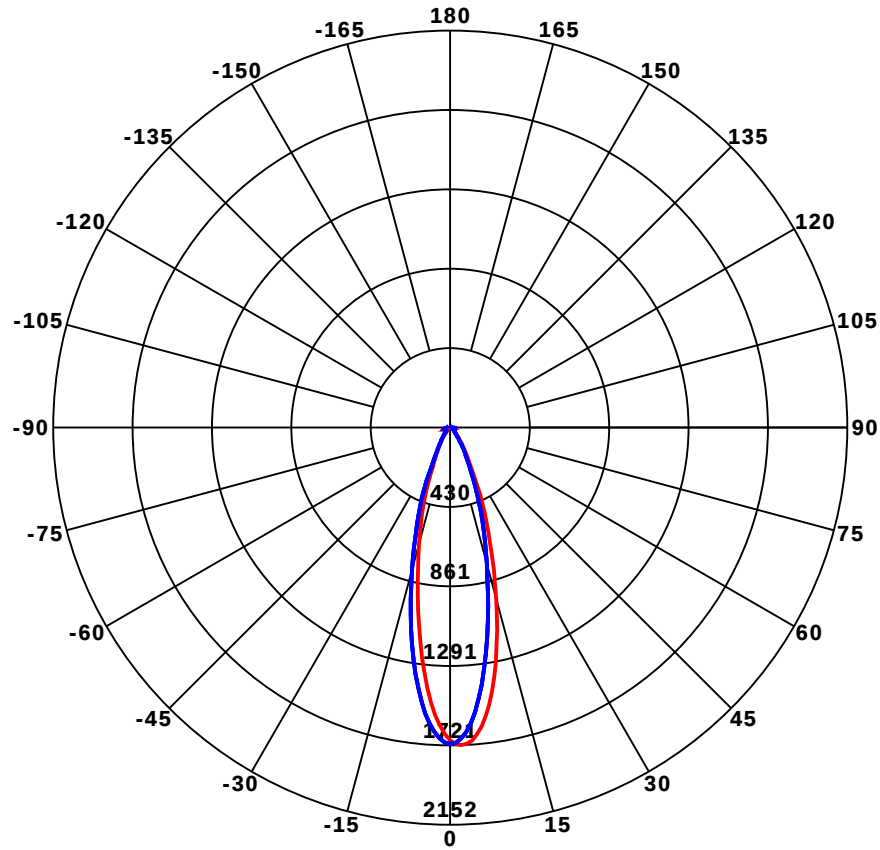
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2021/10/15 13:56:22

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: 2021/10/15 13:56:22

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity:

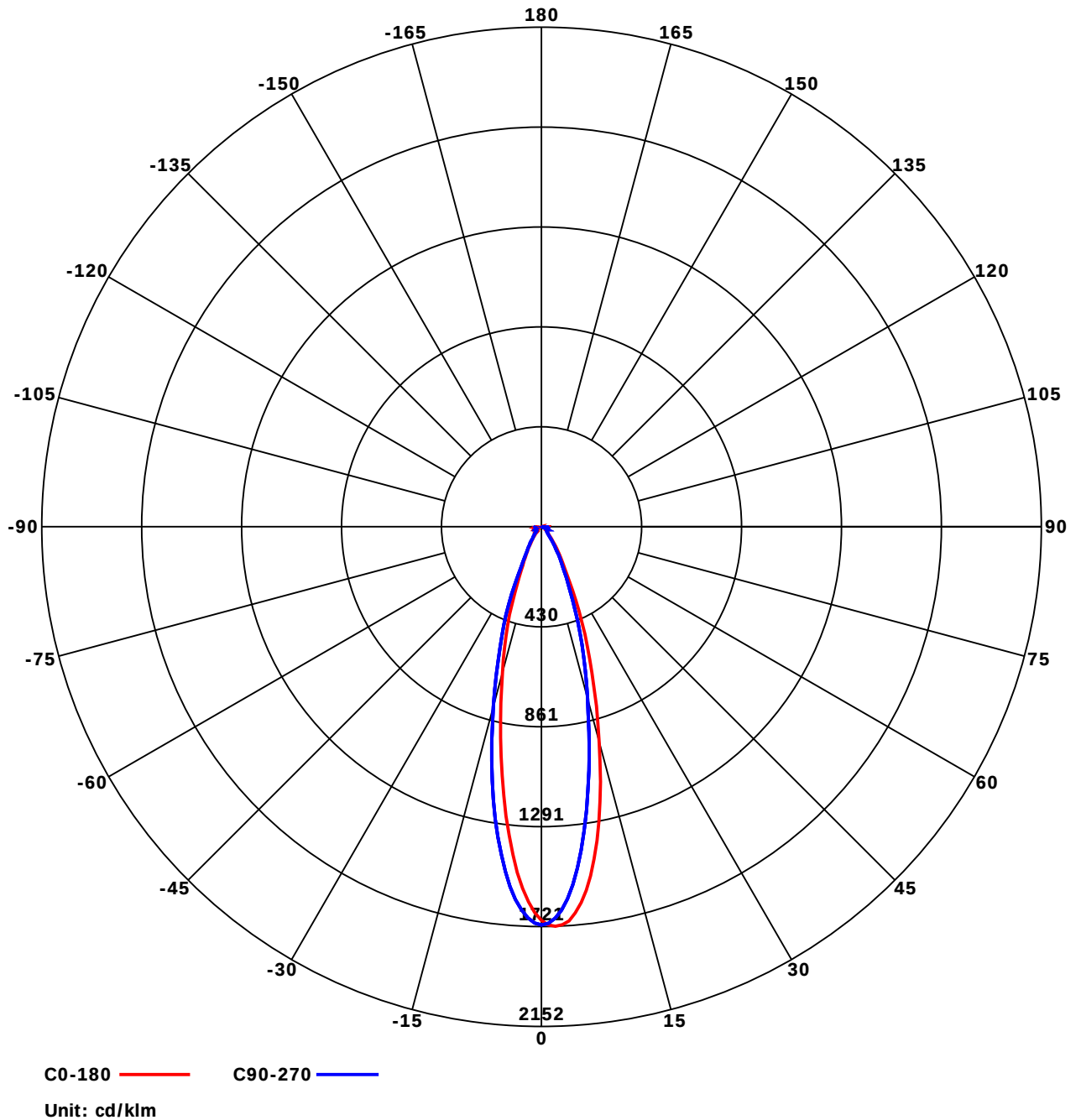
Test Distance: 6.22 m

Remarks:

Report No.:

Test Time: 2021/10/15 13:56:22

Luminous Intensity Distribution Curve



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2021/10/15 13:56:22

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

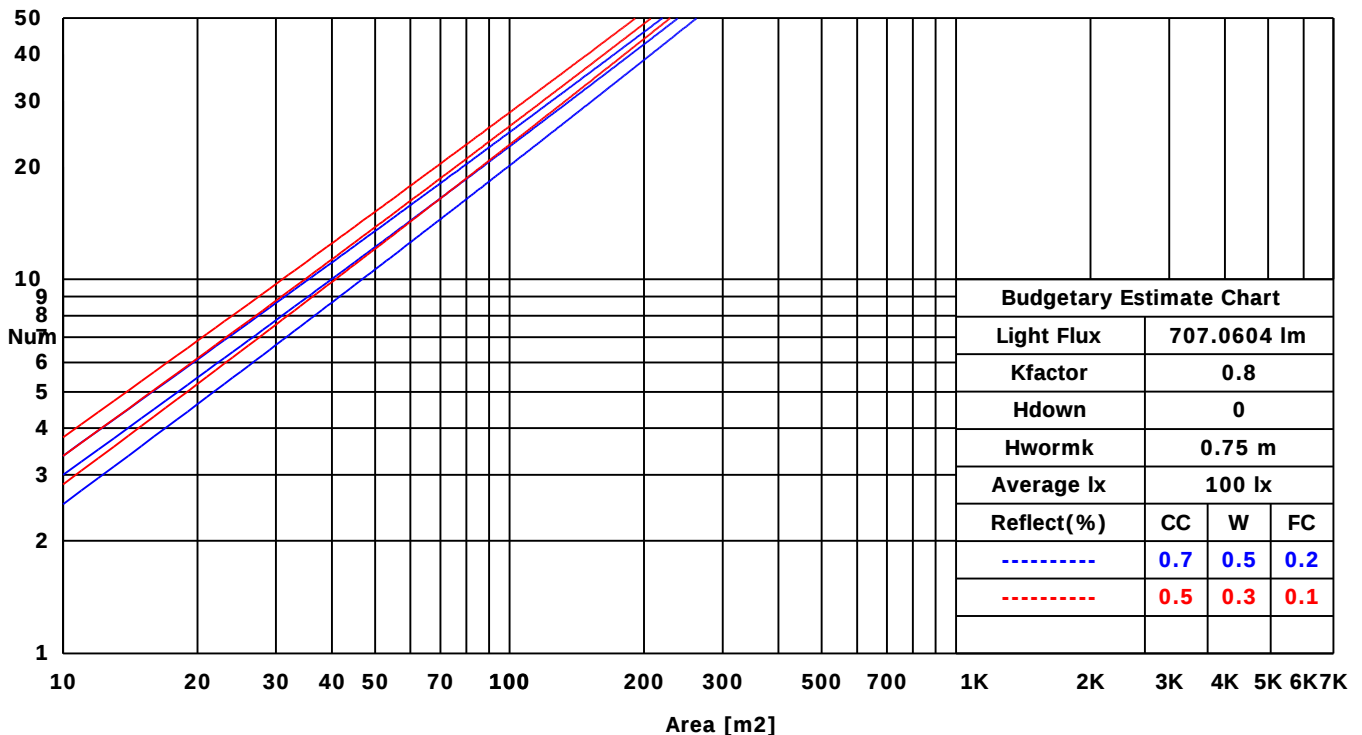
Report No.:

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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	0.96	0.93	0.91	0.95	0.92	0.89	0.92	0.88	0.86	0.88	0.84	0.81	0.82	0.79	0.75	0.70
2	0.88	0.86	0.84	0.88	0.85	0.82	0.86	0.82	0.79	0.82	0.78	0.75	0.78	0.74	0.70	0.65
3	0.83	0.80	0.79	0.82	0.79	0.77	0.81	0.77	0.74	0.78	0.74	0.70	0.74	0.70	0.66	0.61
4	0.78	0.76	0.75	0.78	0.75	0.73	0.77	0.73	0.70	0.74	0.70	0.66	0.71	0.66	0.62	0.58
5	0.75	0.73	0.71	0.74	0.72	0.70	0.73	0.69	0.67	0.71	0.67	0.63	0.69	0.64	0.60	0.56
6	0.72	0.70	0.68	0.71	0.69	0.67	0.70	0.67	0.64	0.69	0.64	0.61	0.66	0.61	0.57	0.54
7	0.69	0.67	0.66	0.69	0.66	0.65	0.68	0.64	0.62	0.66	0.62	0.59	0.64	0.59	0.55	0.52
8	0.67	0.65	0.64	0.67	0.64	0.63	0.66	0.62	0.60	0.64	0.60	0.57	0.62	0.57	0.54	0.50
9	0.65	0.63	0.62	0.65	0.62	0.61	0.64	0.60	0.58	0.62	0.58	0.55	0.61	0.56	0.52	0.49
10	0.63	0.62	0.61	0.63	0.61	0.59	0.62	0.59	0.57	0.61	0.57	0.54	0.59	0.54	0.51	0.48

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



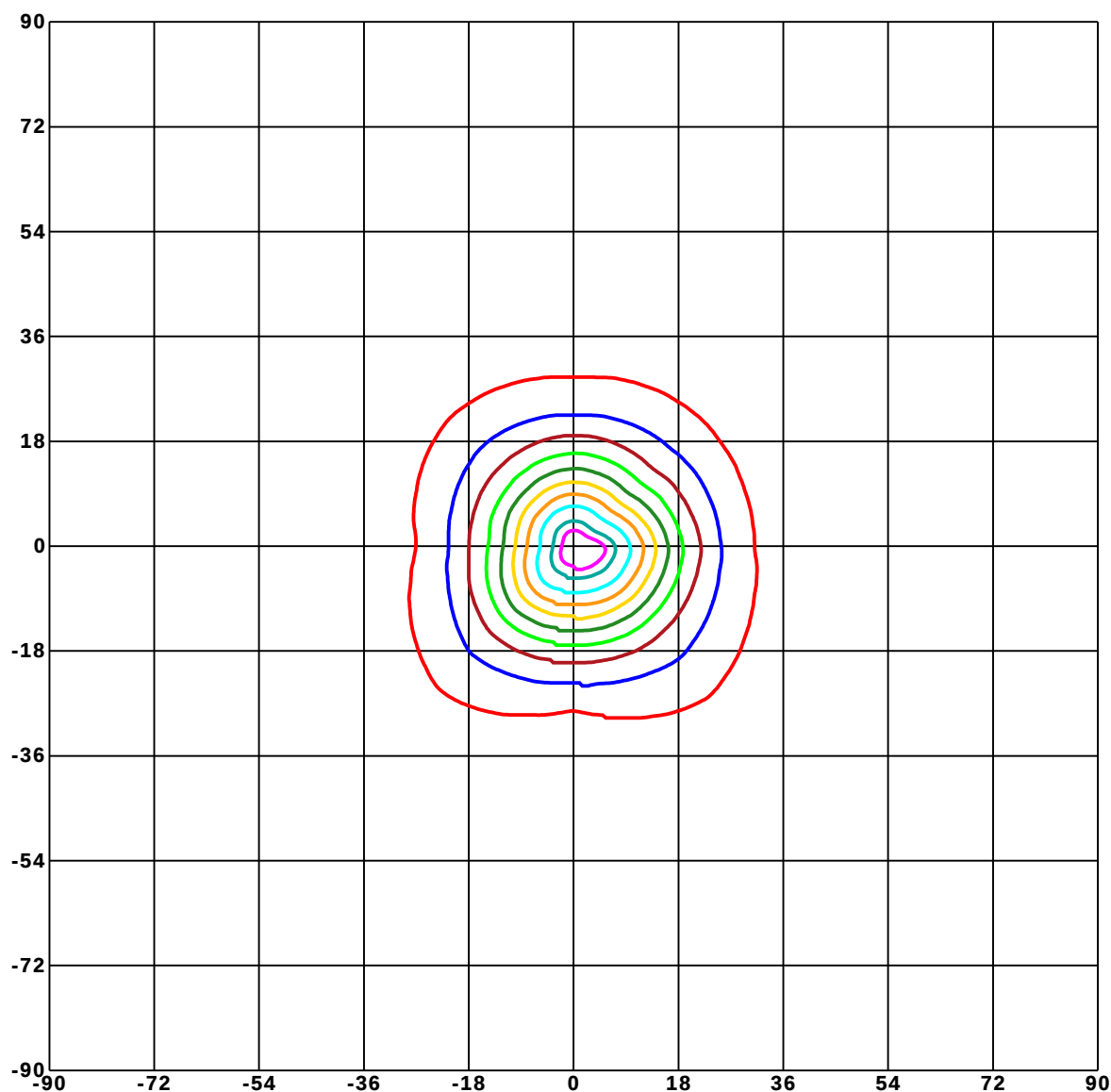
C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2021/10/15 13:56:22

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 (RECTANGULAR)



Unit of intensity:cd I_{max}(100%): 1721.286 cd

1635.221(95%I _{max})	860.643(50%I _{max})
1549.157(90%I _{max})	688.514(40%I _{max})
1377.028(80%I _{max})	516.386(30%I _{max})
1204.9(70%I _{max})	344.257(20%I _{max})
1032.771(60%I _{max})	172.129(10%I _{max})

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2021/10/15 13:56:22

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity:

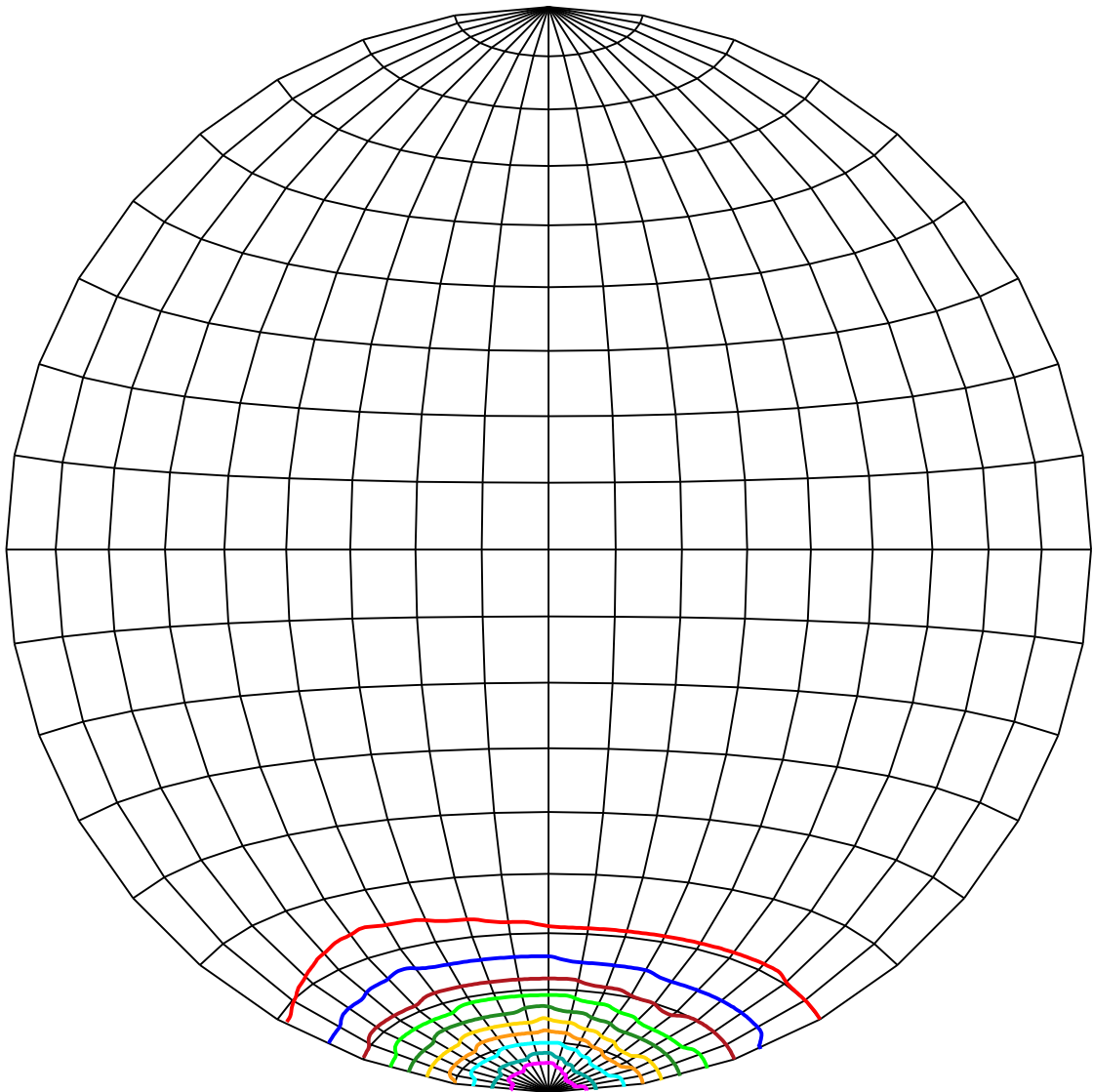
Test Distance: 6.22 m

Remarks:

Report No.:

Test Time: 2021/10/15 13:56:22

ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd I_{max}(100%): 1721.286 cd

1635.221(95%I _{max})	860.643(50%I _{max})
1549.157(90%I _{max})	688.514(40%I _{max})
1377.028(80%I _{max})	516.386(30%I _{max})
1204.9(70%I _{max})	344.257(20%I _{max})
1032.771(60%I _{max})	172.129(10%I _{max})

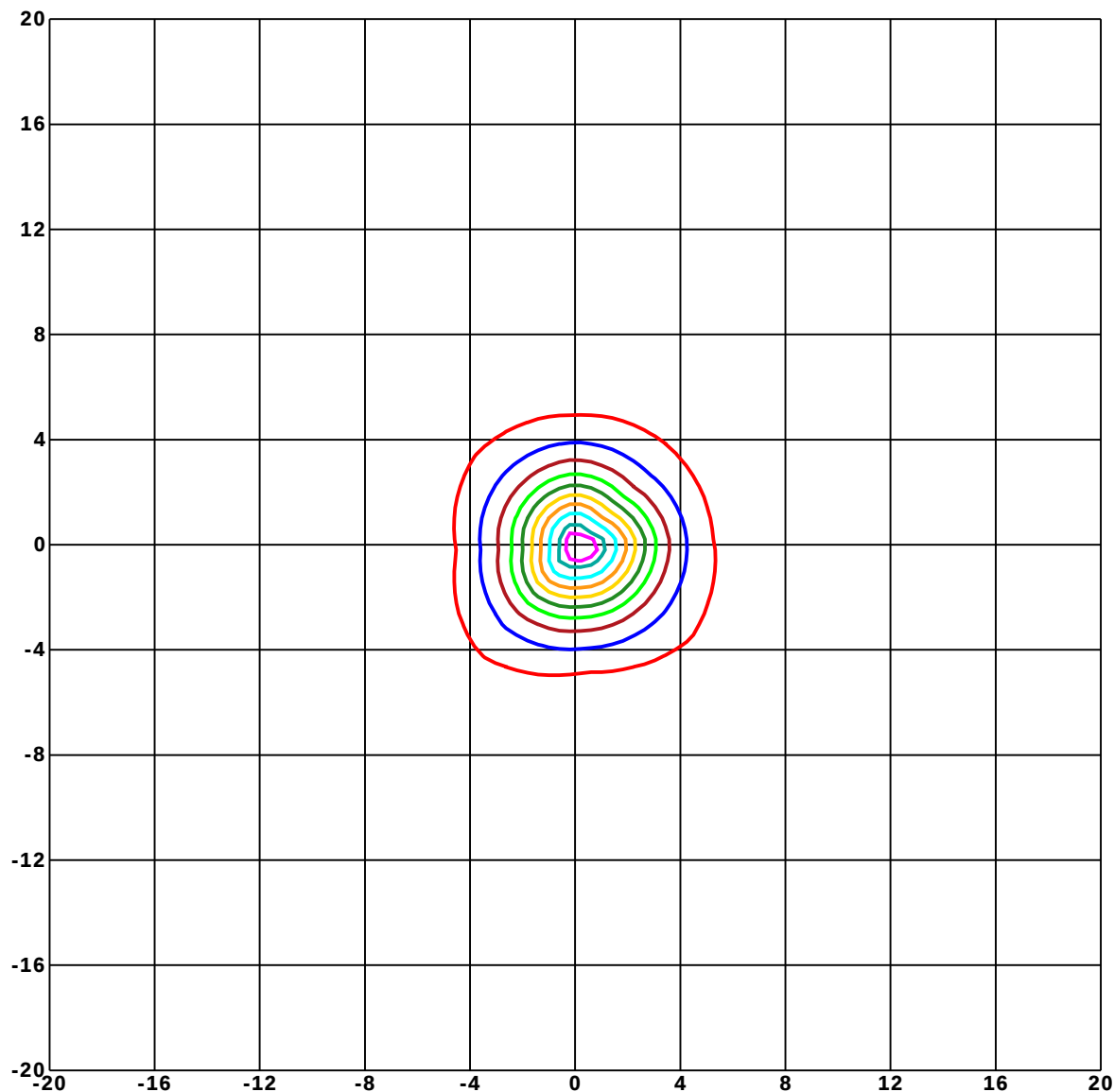
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2021/10/15 13:56:22

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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ISOLX DIAGRAM



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

16.322(1%Emax)	8.591(0%Emax)
15.463(1%Emax)	6.873(0%Emax)
13.745(1%Emax)	5.154(0%Emax)
12.027(1%Emax)	3.436(0%Emax)
10.309(1%Emax)	1.718(0%Emax)

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2021/10/15 13:56:22

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity:

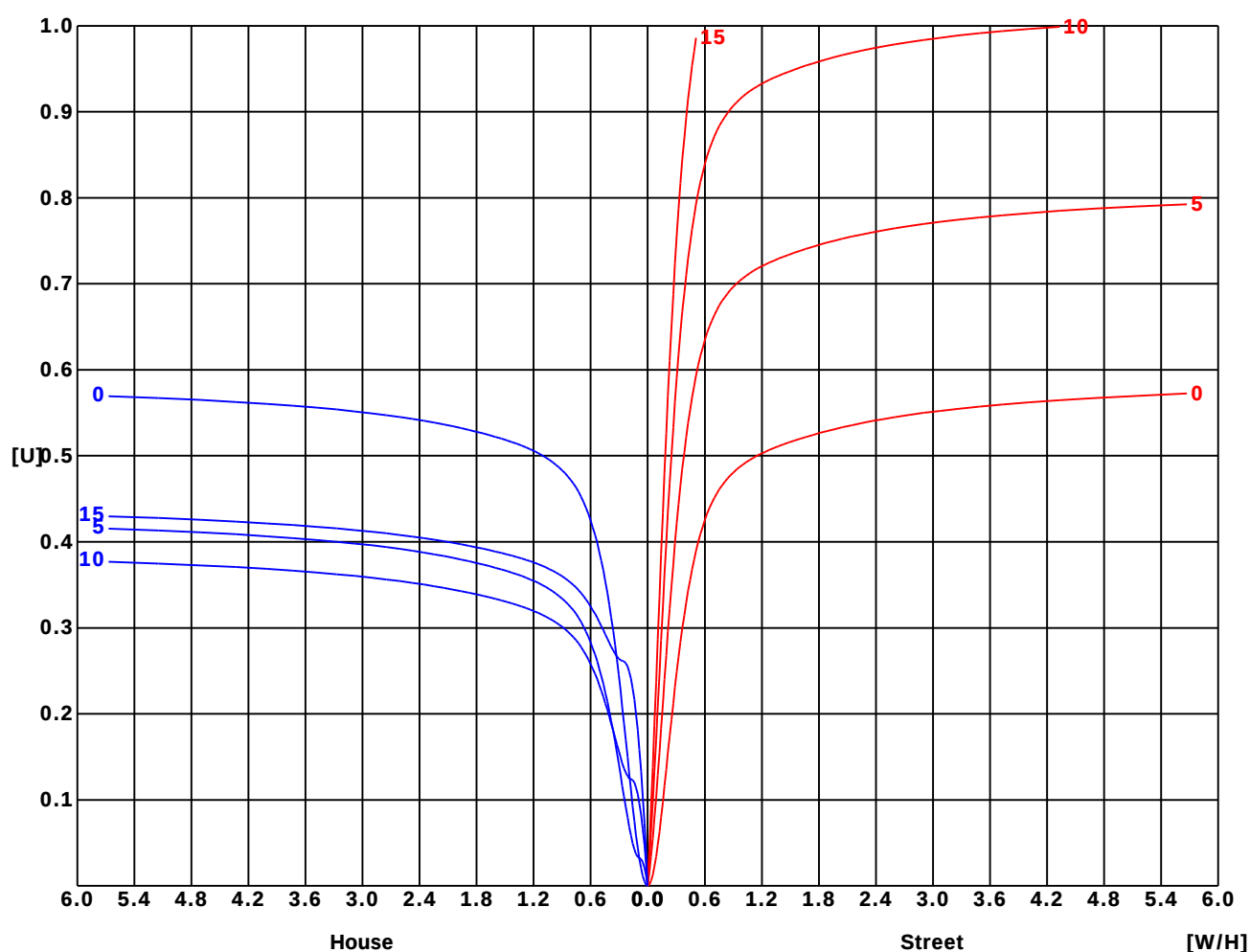
Test Distance: 6.22 m

Remarks:

Report No.:

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UTILIZATION FACTOR DIAGRAM (ROAD)



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2021/10/15 13:56:22

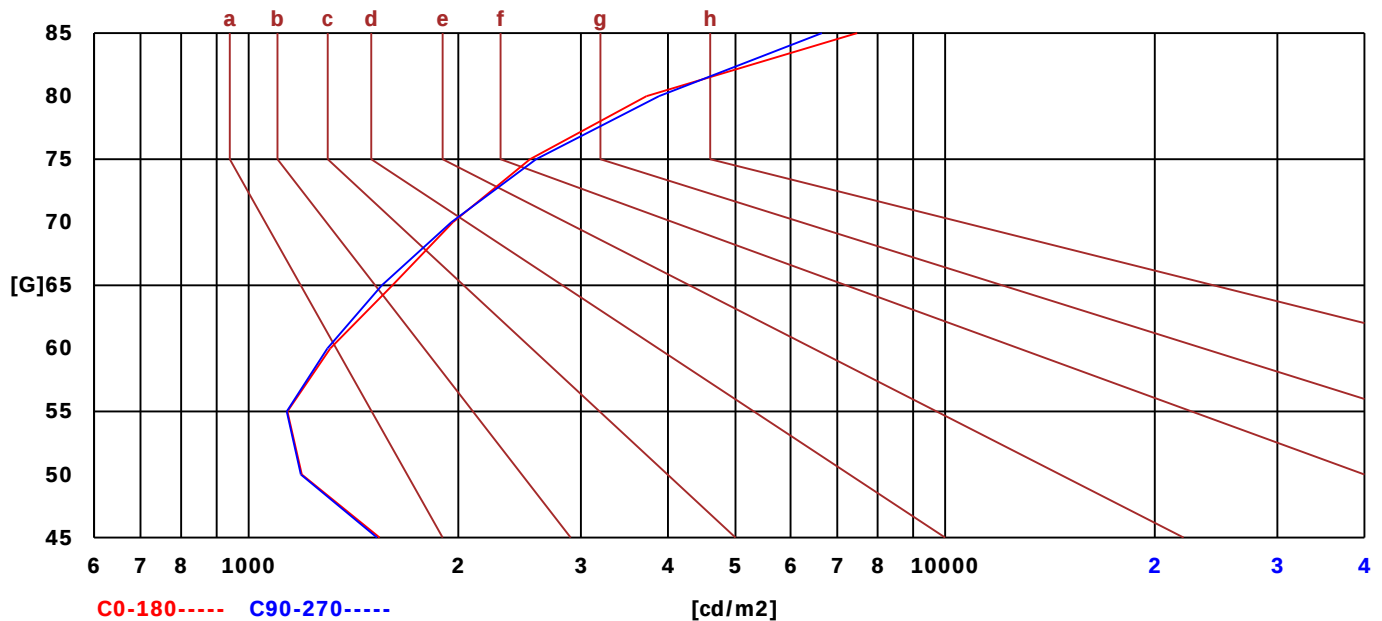
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1800B Goniophotometer
Humidity:
Test Distance: 6.22 m
Remarks:

Report No.:

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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	1543	1192	1137	1310	1609	1965	2537	3726	7480
C90	1529	1189	1135	1298	1554	1954	2586	3882	6658
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: 2021/10/15 13:56:22

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity:

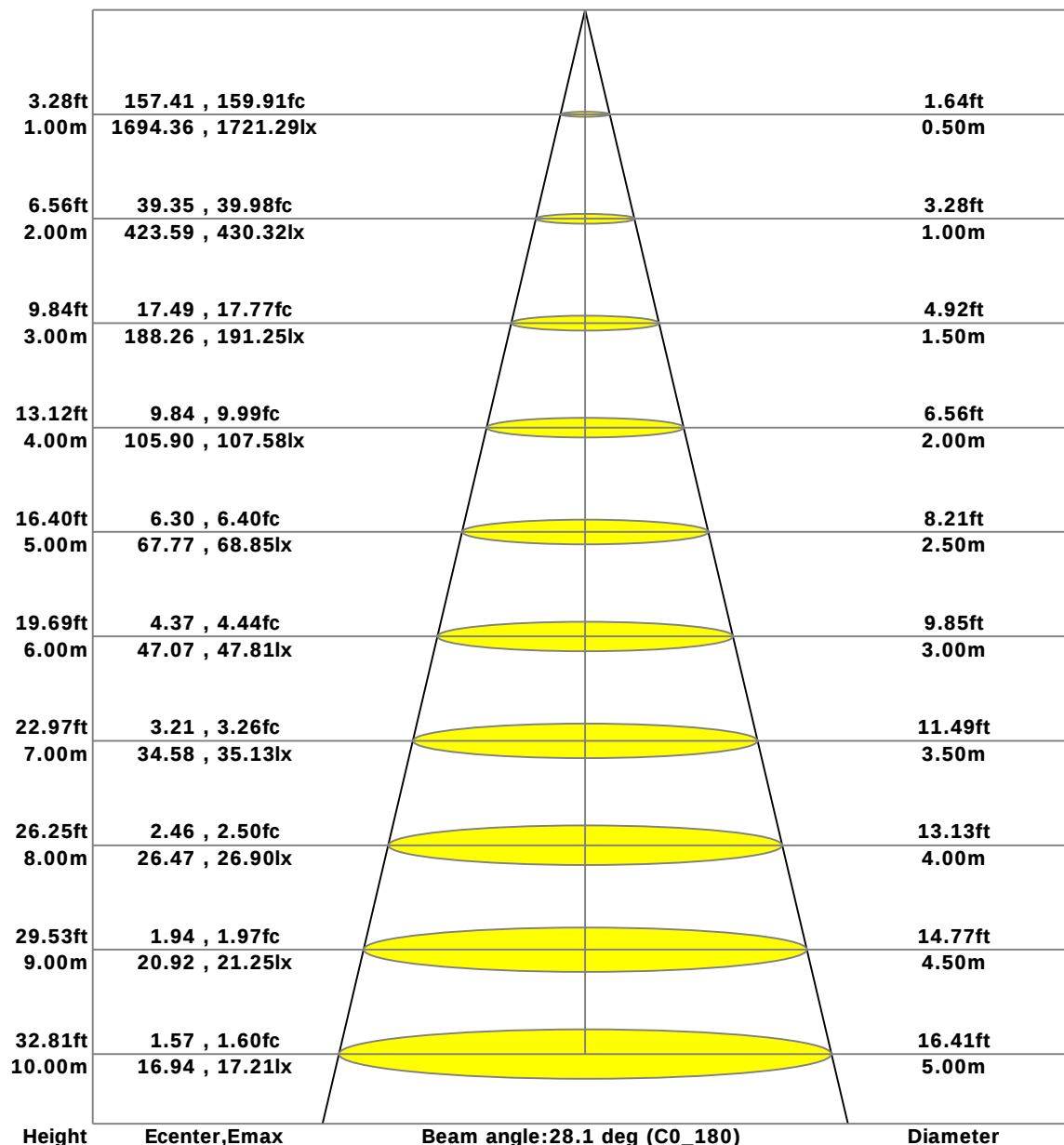
Test Distance: 6.22 m

Remarks:

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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2021/10/15 13:56:22

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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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	9.80	9.86	10.00	10.05	10.30	9.70	9.76	9.90	9.95	10.19
3H	10.14	10.20	10.35	10.40	10.64	10.04	10.10	10.24	10.29	10.54
4H	10.28	10.34	10.49	10.54	10.79	10.16	10.23	10.38	10.42	10.67
6H	10.35	10.42	10.57	10.62	10.87	10.24	10.30	10.45	10.50	10.75
8H	10.34	10.41	10.56	10.61	10.87	10.23	10.29	10.45	10.49	10.75
12H	10.33	10.40	10.56	10.60	10.86	10.22	10.28	10.44	10.49	10.74
4H 2H	14.16	14.22	14.37	14.42	14.67	14.35	14.42	14.56	14.61	14.86
3H	14.83	14.89	15.05	15.10	15.35	15.00	15.06	15.22	15.27	15.53
4H	15.13	15.20	15.36	15.41	15.67	15.29	15.35	15.52	15.56	15.82
6H	15.37	15.43	15.61	15.65	15.92	15.50	15.56	15.74	15.79	16.05
8H	15.46	15.52	15.70	15.75	16.01	15.58	15.64	15.83	15.87	16.14
12H	15.50	15.56	15.75	15.79	16.06	15.62	15.68	15.87	15.91	16.18
8H 4H	17.07	17.14	17.29	17.34	17.59	17.34	17.41	17.56	17.61	17.87
6H	19.07	19.12	19.32	19.36	19.63	19.26	19.31	19.52	19.55	19.83
8H	19.29	19.34	19.55	19.59	19.87	19.47	19.52	19.73	19.77	20.04
12H	19.48	19.53	19.75	19.78	20.06	19.64	19.69	19.91	19.94	20.22
12H 4H	19.95	20.01	20.20	20.24	20.51	20.20	20.26	20.45	20.49	20.76
6H	20.62	20.67	20.88	20.92	21.19	20.85	20.90	21.11	21.14	21.42

C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
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 Operators:
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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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ZONAL LUMINOUS FLUX TABLE

[illegible]

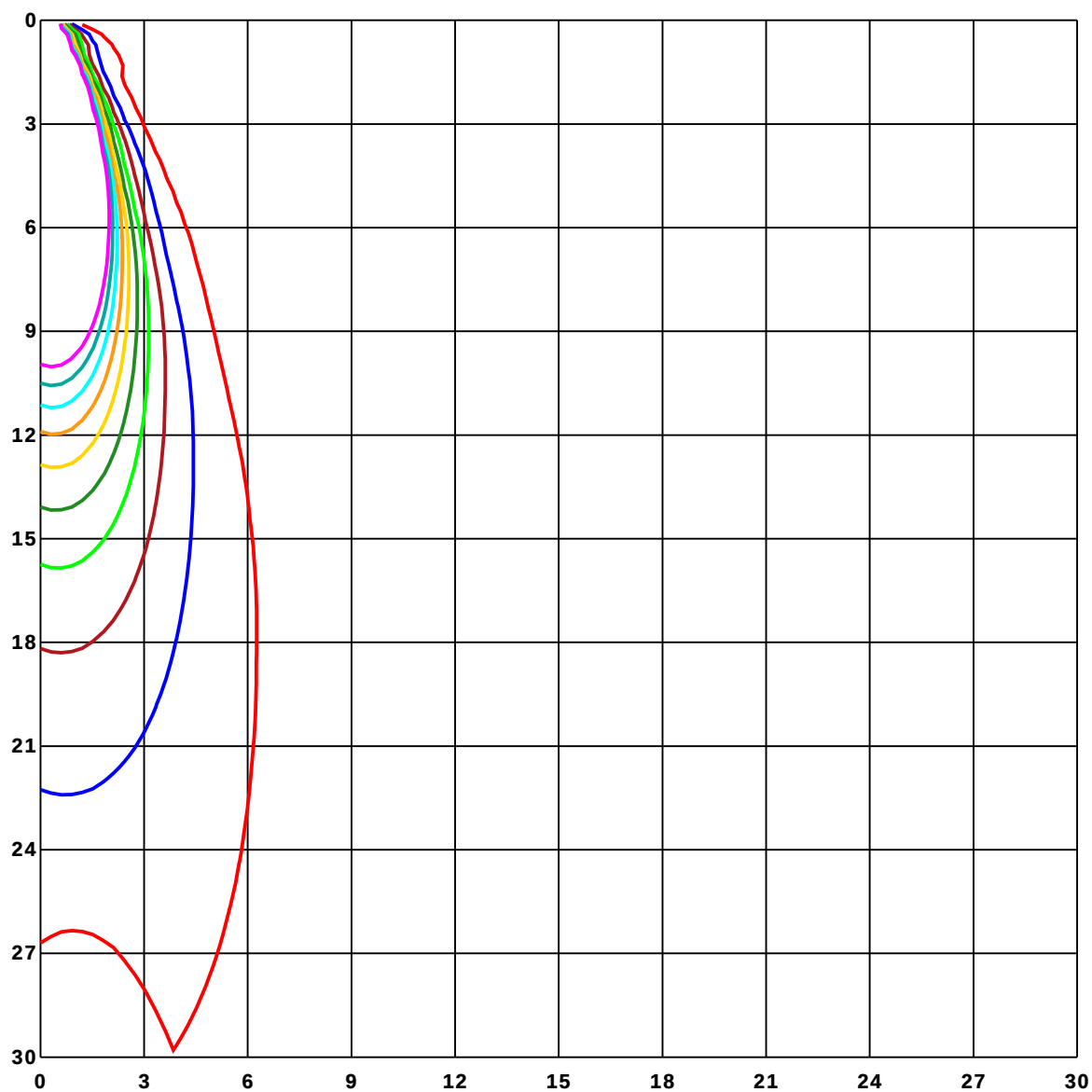
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2021/10/15 13:56:22

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Humidity:
Test Distance: 6.22 m
Remarks:

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SPACE ISOLX DIAGRAM



Unit of illumination:lx

17.094	8.547
15.385	6.838
13.675	5.128
11.966	3.419
10.256	1.709

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2021/10/15 13:56:22

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: 2021/10/15 13:56:22

LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma/C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	1694.36	1686.7	1713.97	1711.46	1694.36	1686.7	1713.97	1711.46	1694.36	
G1	1714.4	1672.58	1707.51	1690.61	1661.2	1683.99	1706.2	1718.46	1714.4	
G2	1721.29	1644.8	1686.62	1655.83	1615.82	1675.29	1685.31	1712.0	1721.29	
G3	1715.48	1604.52	1652.5	1609.05	1559.26	1650.22	1651.92	1691.81	1715.48	
G4	1700.74	1553.26	1606.07	1550.48	1491.94	1611.64	1608.43	1660.74	1700.74	
G5	1668.01	1489.62	1547.15	1476.39	1416.89	1568.43	1554.66	1617.99	1668.01	
G6	1627.54	1419.86	1477.08	1404.0	1335.83	1508.81	1491.98	1565.76	1627.54	
G7	1576.4	1343.03	1402.3	1322.1	1253.58	1448.3	1422.46	1504.36	1576.4	
G8	1517.17	1262.36	1320.78	1238.18	1168.2	1378.04	1349.41	1434.95	1517.17	
G9	1447.06	1179.26	1236.09	1148.62	1084.51	1303.41	1274.67	1361.45	1447.06	
G10	1372.2	1096.0	1151.41	1069.39	1003.04	1225.42	1192.57	1282.91	1372.2	
G11	1293.12	1015.45	1068.03	988.41	924.11	1145.37	1112.06	1205.22	1293.12	
G12	1209.25	936.65	987.1	905.04	848.9	1063.97	1031.67	1121.42	1209.25	
G13	1126.3	862.6	908.64	831.8	777.71	985.97	951.12	1039.25	1126.3	
G14	1040.14	792.84	830.76	763.4	711.94	908.44	874.05	958.89	1040.14	
G15	960.4	727.42	766.61	699.33	652.09	835.51	799.88	882.95	960.4	
G16	877.88	667.41	702.04	644.78	596.23	765.45	730.55	810.64	877.88	
G17	807.19	611.32	642.73	590.35	542.18	700.22	666.1	741.97	807.19	
G18	731.95	559.51	585.05	539.94	496.68	642.27	605.82	678.29	731.95	
G19	665.21	512.54	535.06	494.48	450.14	585.16	549.84	619.56	665.21	
G20	608.1	469.48	483.02	452.38	403.33	537.81	498.77	565.97	608.1	
G21	551.31	429.94	434.05	414.47	354.42	489.18	452.58	517.73	551.31	
G22	497.69	393.62	385.88	379.46	307.73	448.4	407.93	475.13	497.69	
G23	443.18	359.61	342.97	347.38	267.76	412.73	363.13	441.4	443.18	
G24	396.87	328.27	303.9	317.24	234.03	381.04	316.59	404.64	396.87	
G25	348.81	299.64	269.97	289.85	206.56	352.8	270.32	379.03	348.81	
G26	303.7	273.37	244.05	264.24	184.23	330.32	228.18	351.37	303.7	
G27	266.87	250.82	216.27	242.61	165.86	300.92	195.45	321.73	266.87	
G28	236.0	229.0	194.56	222.07	149.76	276.08	170.58	297.24	236.0	
G29	209.92	207.33	174.99	200.64	133.63	252.56	151.47	270.7	209.92	
G30	188.34	185.01	161.37	178.62	122.37	230.66	135.99	248.3	188.34	
G31	169.84	158.82	141.68	157.19	110.53	213.06	122.95	227.84	169.84	
G32	153.71	138.2	126.2	137.27	99.35	194.56	112.43	209.54	153.71	
G33	138.89	123.88	111.89	119.04	88.98	175.57	103.38	192.51	138.89	
G34	125.51	106.51	102.1	106.08	79.81	157.96	92.85	175.22	125.51	
G35	115.99	102.1	87.47	97.38	71.42	140.55	84.65	157.62	115.99	
G36	100.94	94.71	77.07	89.87	64.15	124.04	77.18	139.47	100.94	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

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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 DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma/C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	89.68	88.09	69.72	84.03	57.96	108.99	69.91	121.13	89.68	
G38	80.05	82.17	60.43	78.42	52.23	93.47	63.8	103.92	80.05	
G39	75.02	75.67	53.62	72.73	47.01	85.73	58.03	90.26	75.02	
G40	65.19	69.79	47.93	67.36	43.02	79.12	56.41	84.46	65.19	
G41	58.81	63.64	42.6	61.71	39.81	73.62	50.02	78.58	58.81	
G42	53.12	58.11	41.32	56.56	37.88	69.02	46.62	70.61	53.12	
G43	47.86	52.77	39.77	51.65	38.61	60.2	45.57	68.79	47.86	
G44	45.23	47.74	38.19	46.97	34.82	60.74	40.0	64.22	45.23	
G45	39.46	43.64	36.68	43.25	35.48	56.72	37.61	56.18	39.46	
G46	37.06	42.05	34.86	39.69	31.57	52.65	36.02	55.4	37.06	
G47	36.6	36.37	32.11	36.37	31.69	45.61	34.47	51.18	36.6	
G48	33.93	33.54	30.41	33.77	27.66	45.3	33.19	47.39	33.93	
G49	32.34	31.76	28.71	31.8	27.28	42.6	33.0	40.04	32.34	
G50	29.56	30.64	28.4	30.56	27.12	39.69	30.76	41.36	29.56	
G51	29.21	29.6	28.28	29.67	29.17	37.37	29.17	38.69	29.21	
G52	26.77	28.4	27.74	28.44	27.0	35.09	27.62	36.06	26.77	
G53	26.62	26.73	27.7	27.2	26.93	34.7	27.04	30.18	26.62	
G54	26.69	25.92	27.47	26.15	27.0	31.84	27.24	32.69	26.69	
G55	22.48	26.08	27.12	26.04	26.89	30.8	27.16	31.84	22.48	
G56	22.63	26.0	27.16	26.04	27.0	29.91	27.39	30.64	22.63	
G57	26.58	26.04	27.2	26.11	27.62	29.17	27.43	27.28	26.58	
G58	26.54	26.08	26.89	26.08	26.73	28.13	27.28	28.59	26.54	
G59	26.31	26.23	26.77	27.62	26.97	26.85	27.39	27.82	26.31	
G60	26.35	26.19	26.66	25.96	27.08	26.69	27.39	26.27	26.35	
G61	26.11	26.5	26.81	25.96	27.08	27.12	27.2	27.51	26.11	
G62	25.96	26.39	26.66	27.78	27.16	27.0	27.12	27.31	25.96	
G63	26.31	26.93	26.66	26.23	27.16	26.97	27.04	27.86	26.31	
G64	25.61	23.72	28.82	26.15	27.39	26.77	27.0	27.7	25.61	
G65	25.38	27.2	26.66	26.27	23.83	29.02	26.69	26.93	25.38	
G66	25.38	27.16	26.73	26.5	27.28	26.93	26.69	28.01	25.38	
G67	25.22	27.2	26.69	26.69	27.43	28.86	26.5	26.85	25.22	
G68	25.07	27.2	26.54	26.62	27.39	28.67	26.42	26.81	25.07	
G69	25.19	27.12	26.5	23.91	27.43	27.16	26.27	26.81	25.19	
G70	25.19	26.89	26.54	26.73	27.24	28.09	26.15	26.73	25.19	
G71	25.22	26.97	26.66	24.22	23.48	27.35	28.05	26.69	25.22	
G72	25.15	26.58	26.66	27.04	27.08	26.85	26.19	26.66	25.15	
G73	24.95	26.5	28.09	26.85	27.12	26.62	26.23	26.69	24.95	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2021/10/15 13:56:22

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: 2021/10/15 13:56:22

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

[illegible]

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2021/10/15 13:56:22

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity:

Test Distance: 6.22 m

Remarks: