

Report No.:

Test Time: 2020/2/28 15:51:51

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: 0
Luminaire Type: SP-3'-6W-CCT-4000K
Lamp Type:
Luminous Width: 0 mm
Luminous Length: 0 mm
Luminous Height: 0 mm

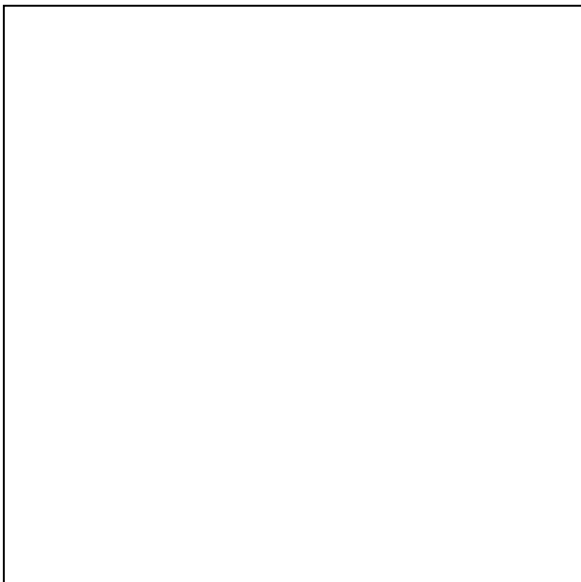
Voltage(V): 230.00 V
Current(A): 0.0250 A
Power(W): 5.42 W
Power Factor: 0.9350
Lamp Luminous Flux: 440.93

Photometric Results

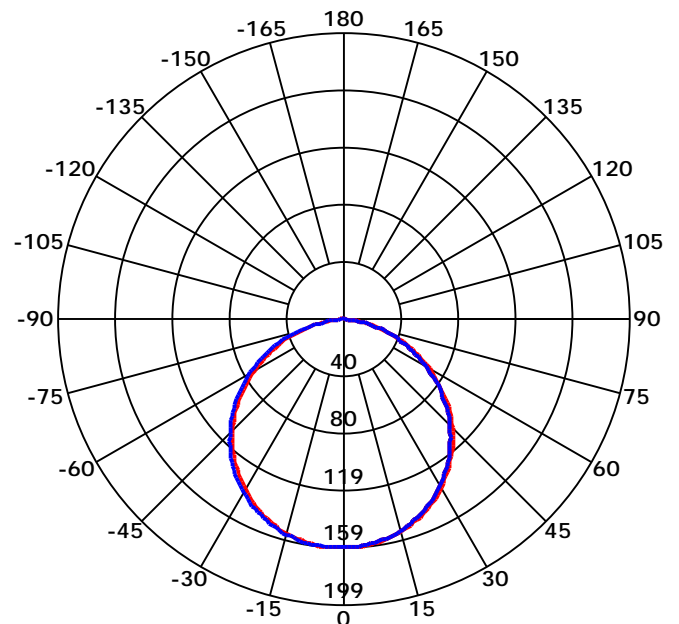
CIE Class: Direct
Luminaire Luminous Flux: 440.9265
Downward Ratio: 0.23%
Luminaire Efficacy Rating(LER): 81.35 lm/W
Beam Angle(50%) C0-180,C90-270: 113.0,113.3
Field Angle(10%) C0-180,C90-270: 158.9,158.9

Max. Intensity: 159.21 cd
Max.Intensity Angle: C=45 Gamma=0
Upward Ratio: 99.77%
Efficacy: 100.00%
Center Intensity: 158.72 cd

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 113.3 deg

C0-180 ——— C90-270 ———

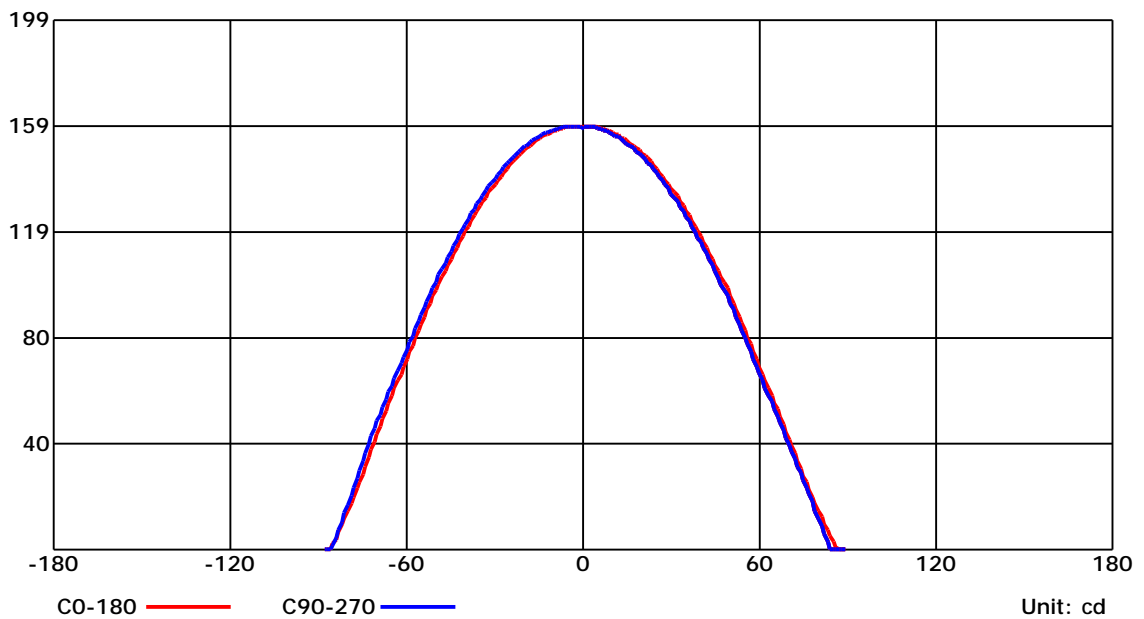
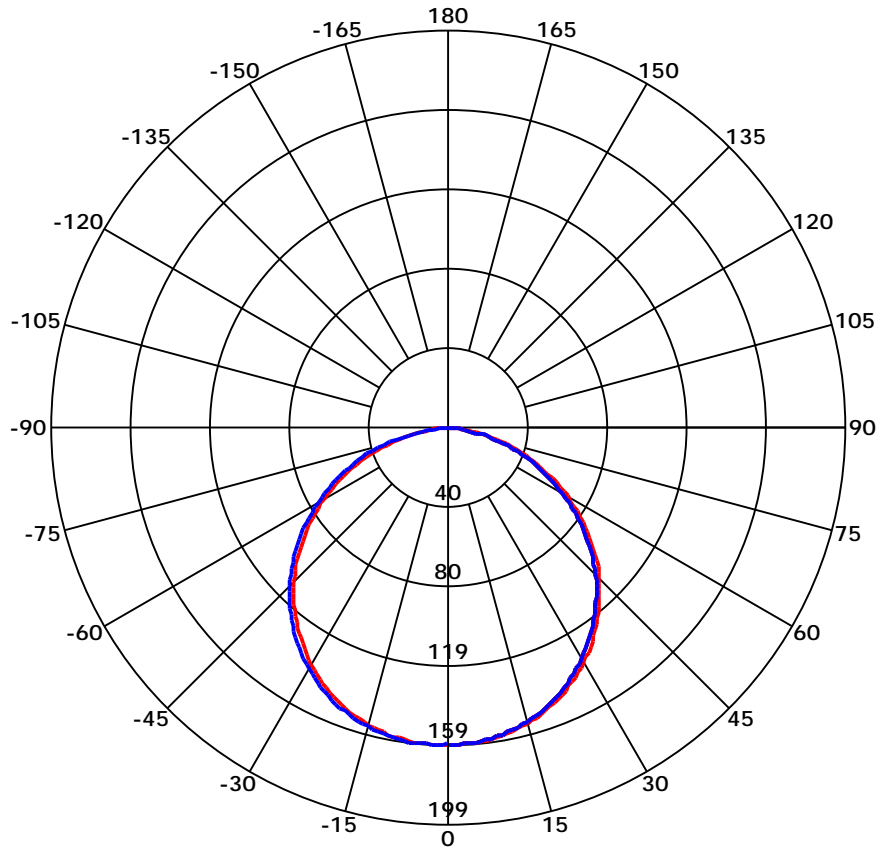
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2020/2/28 15:51:51

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1800B Goniophotometer
Humidity:
Test Distance: 6.4 m
Remarks:

Report No.:

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Luminous Intensity Distribution Curve



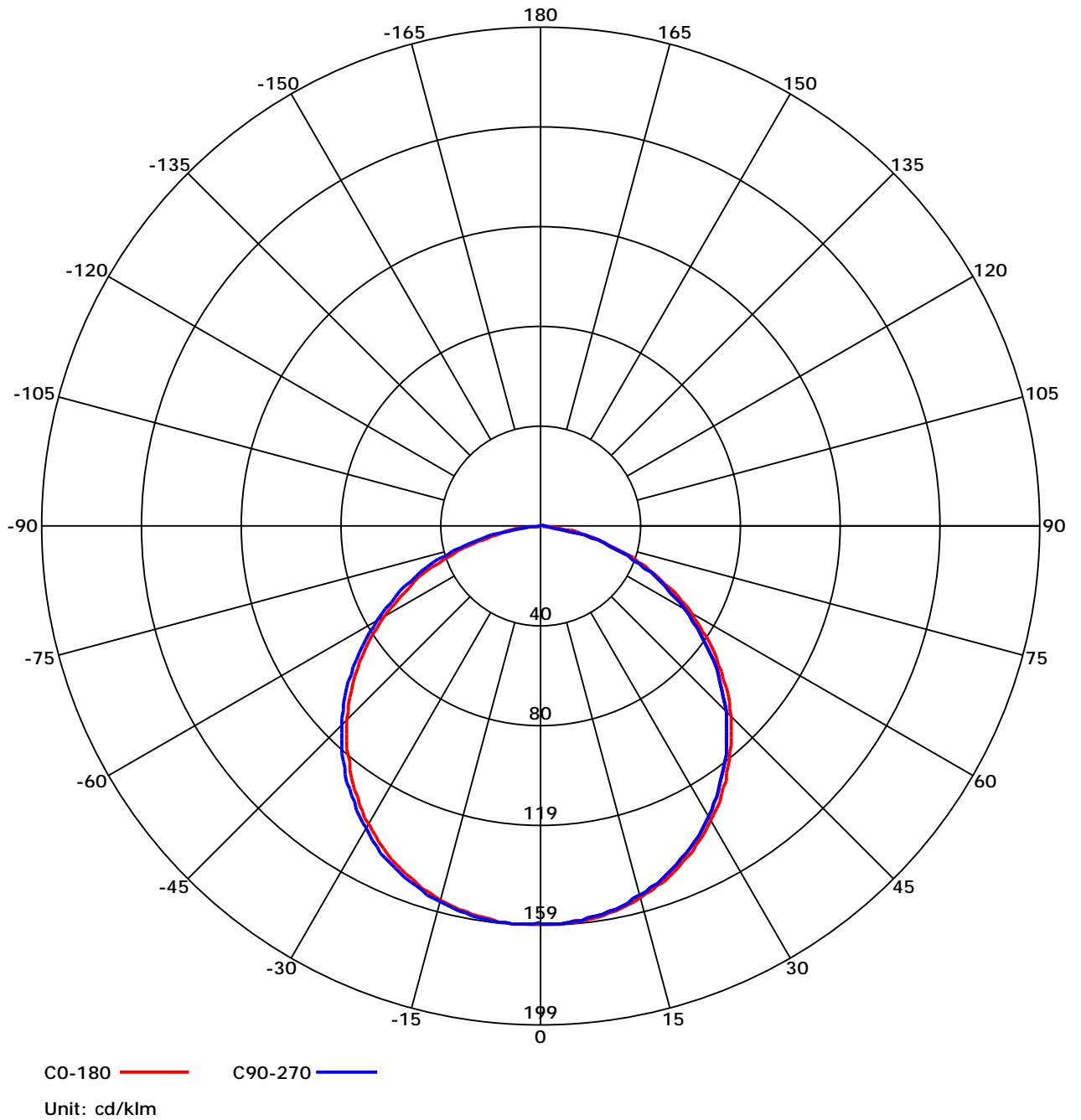
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2020/2/28 15:51:51

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1800B Goniophotometer
Humidity:
Test Distance: 6.4 m
Remarks:

Report No.:

Test Time: 2020/2/28 15:51:51

Luminous Intensity Distribution Curve



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2020/2/28 15:51:51

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity:

Test Distance: 6.4 m

Remarks:

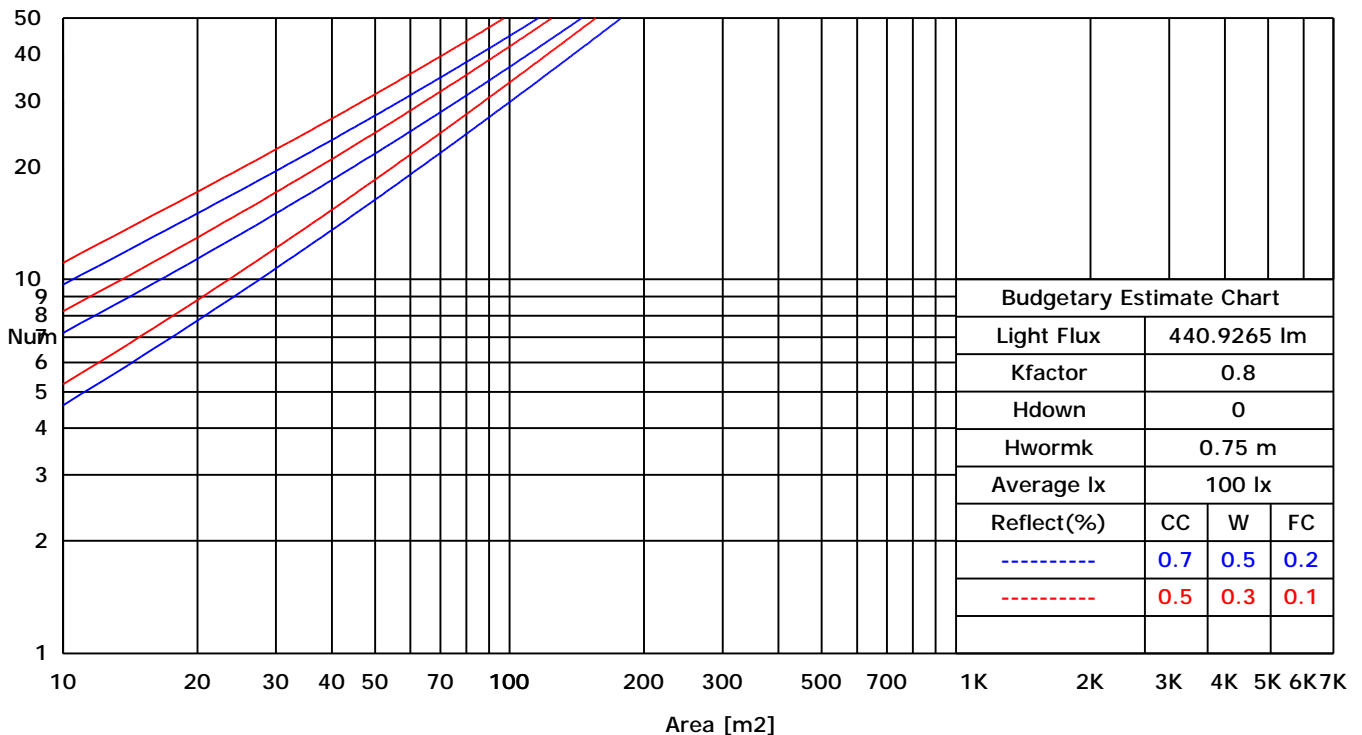
Report No.:

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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	1.09	1.07	1.06	1.07	1.06	1.04	1.03	1.02	1.00	0.98	0.96	0.95	0.91	0.90	0.88	0.83
2	0.96	0.94	0.93	0.95	0.93	0.91	0.92	0.89	0.87	0.88	0.85	0.83	0.83	0.80	0.77	0.72
3	0.86	0.83	0.82	0.85	0.82	0.80	0.83	0.80	0.77	0.80	0.76	0.73	0.76	0.72	0.68	0.64
4	0.77	0.75	0.73	0.77	0.74	0.71	0.75	0.71	0.68	0.73	0.69	0.65	0.70	0.65	0.61	0.57
5	0.69	0.67	0.66	0.69	0.66	0.64	0.69	0.64	0.61	0.67	0.62	0.58	0.65	0.59	0.55	0.51
6	0.63	0.61	0.59	0.63	0.60	0.58	0.63	0.59	0.56	0.62	0.57	0.53	0.60	0.55	0.50	0.46
7	0.58	0.56	0.54	0.58	0.55	0.53	0.58	0.54	0.51	0.57	0.52	0.48	0.56	0.50	0.46	0.42
8	0.53	0.51	0.50	0.54	0.51	0.49	0.54	0.50	0.47	0.53	0.48	0.44	0.53	0.47	0.42	0.39
9	0.49	0.47	0.46	0.50	0.47	0.45	0.50	0.46	0.43	0.50	0.45	0.41	0.49	0.43	0.39	0.36
10	0.46	0.44	0.43	0.46	0.44	0.42	0.47	0.43	0.40	0.47	0.42	0.38	0.46	0.41	0.36	0.33

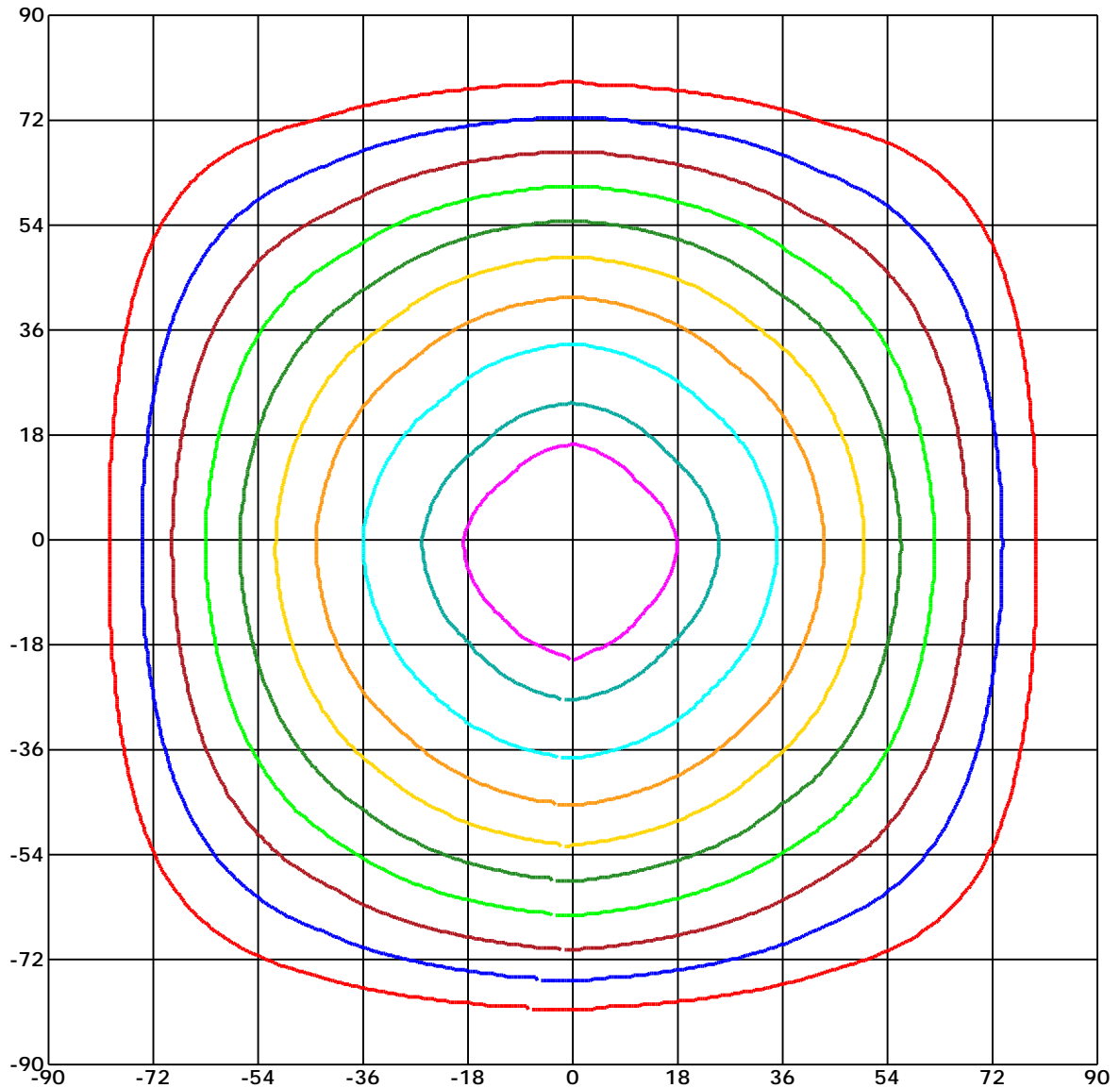
LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2020/2/28 15:51:51

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1800B Goniophotometer
 Humidity:
 Test Distance: 6.4 m
 Remarks:

ISOCANDELA DIAGRAM (RECTANGULAR)



Unit of intensity:cd I_{max}(100%): 159.212 cd

- | | |
|-------------------------------|------------------------------|
| 151.251(95%I _{max}) | 79.606(50%I _{max}) |
| 143.29(90%I _{max}) | 63.685(40%I _{max}) |
| 127.369(80%I _{max}) | 47.763(30%I _{max}) |
| 111.448(70%I _{max}) | 31.842(20%I _{max}) |
| 95.527(60%I _{max}) | 15.921(10%I _{max}) |

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2020/2/28 15:51:51

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

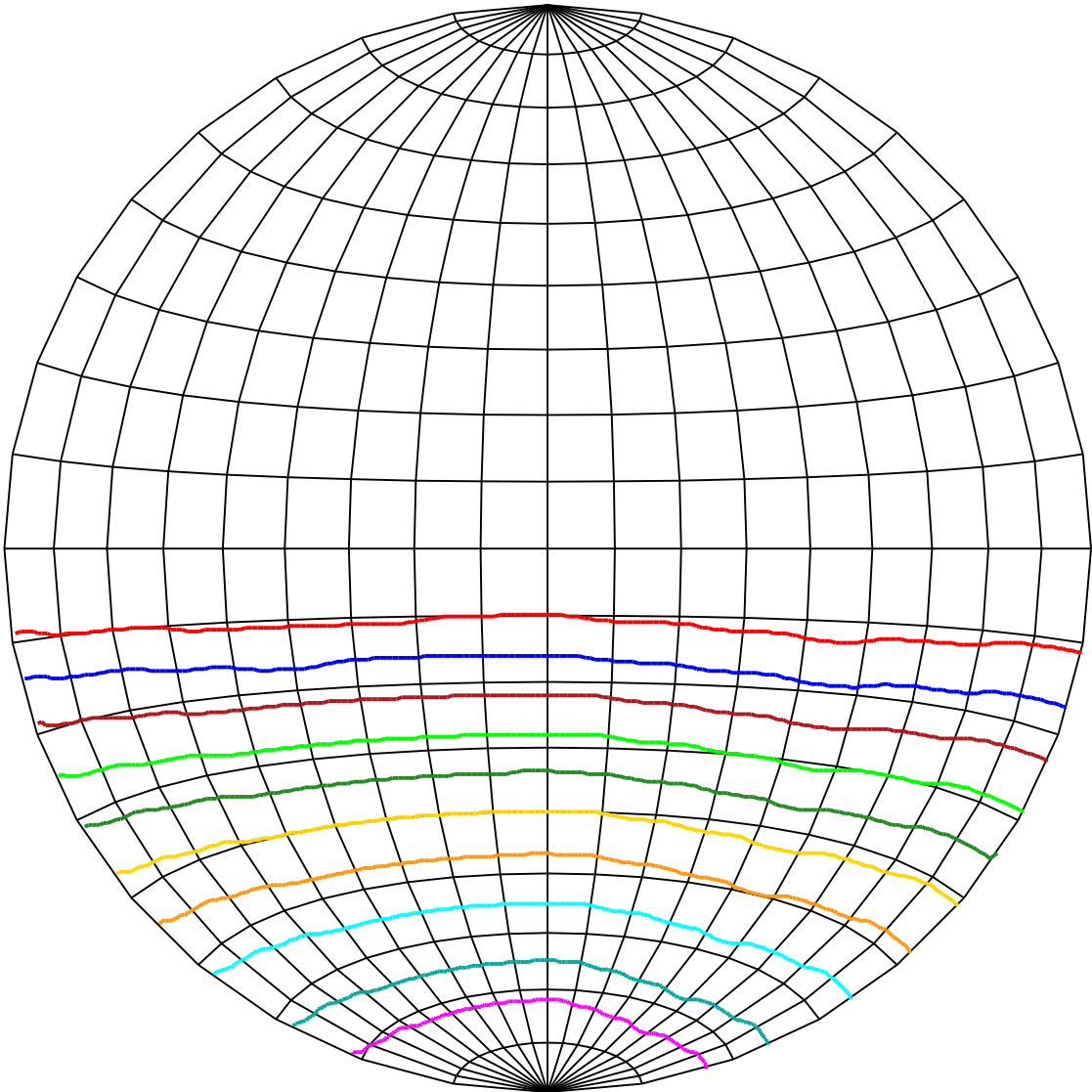
Test System: Huipu CPM-1800B Goniophotometer

Humidity:

Test Distance: 6.4 m

Remarks:

ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd I_{max}(100%): 159.212 cd

151.251(95%I _{max})	79.606(50%I _{max})
143.29(90%I _{max})	63.685(40%I _{max})
127.369(80%I _{max})	47.763(30%I _{max})
111.448(70%I _{max})	31.842(20%I _{max})
95.527(60%I _{max})	15.921(10%I _{max})

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2020/2/28 15:51:51

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity:

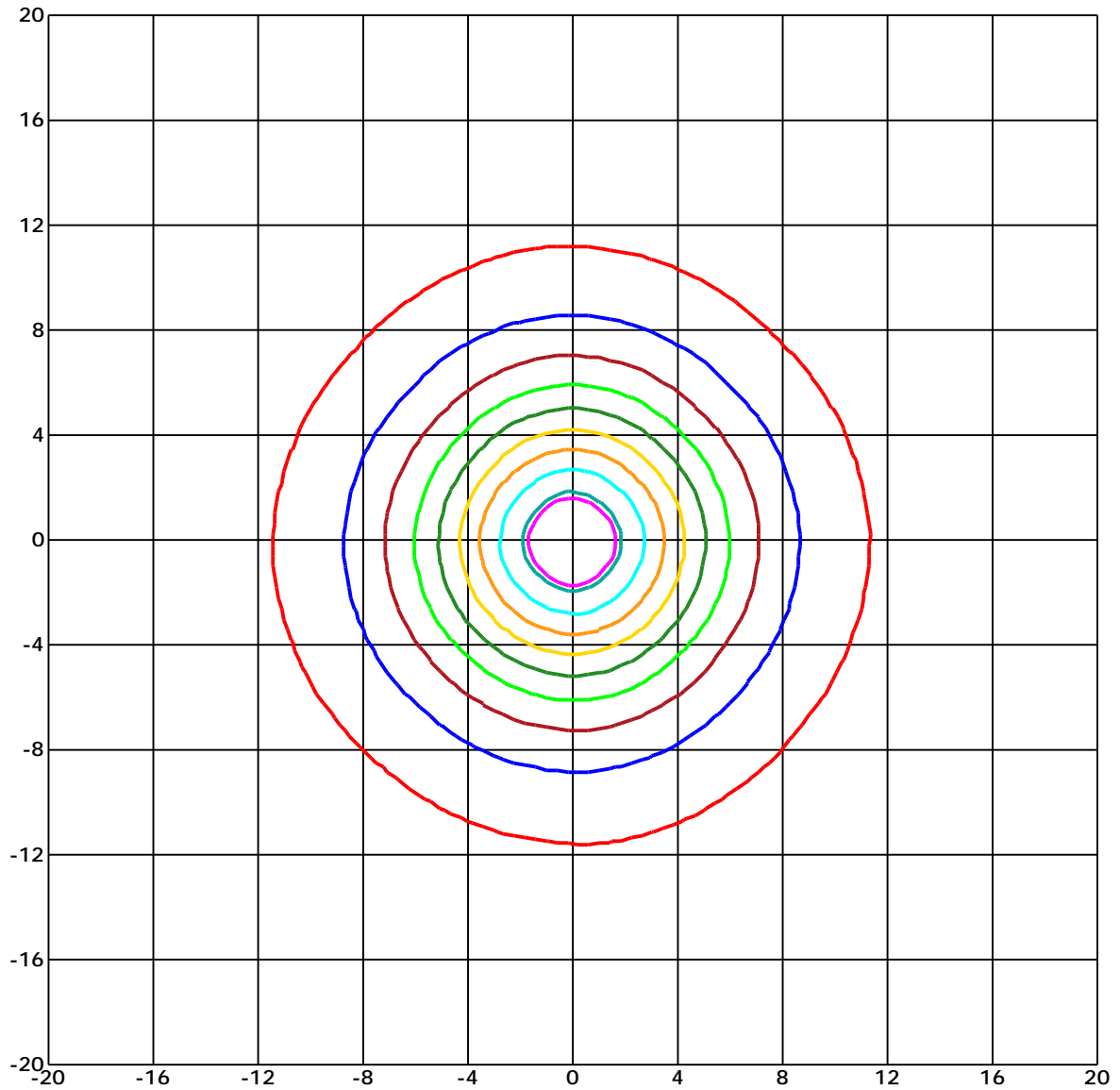
Test Distance: 6.4 m

Remarks:

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ISOLX DIAGRAM



Unit of illumination: lx Height of plane: 8.0(m)/26.25(ft)

2.289(1%E _{max})	1.244(1%E _{max})
2.239(1%E _{max})	0.995(1%E _{max})
1.99(1%E _{max})	0.746(0%E _{max})
1.741(1%E _{max})	0.498(0%E _{max})
1.493(1%E _{max})	0.249(0%E _{max})

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2020/2/28 15:51:51

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

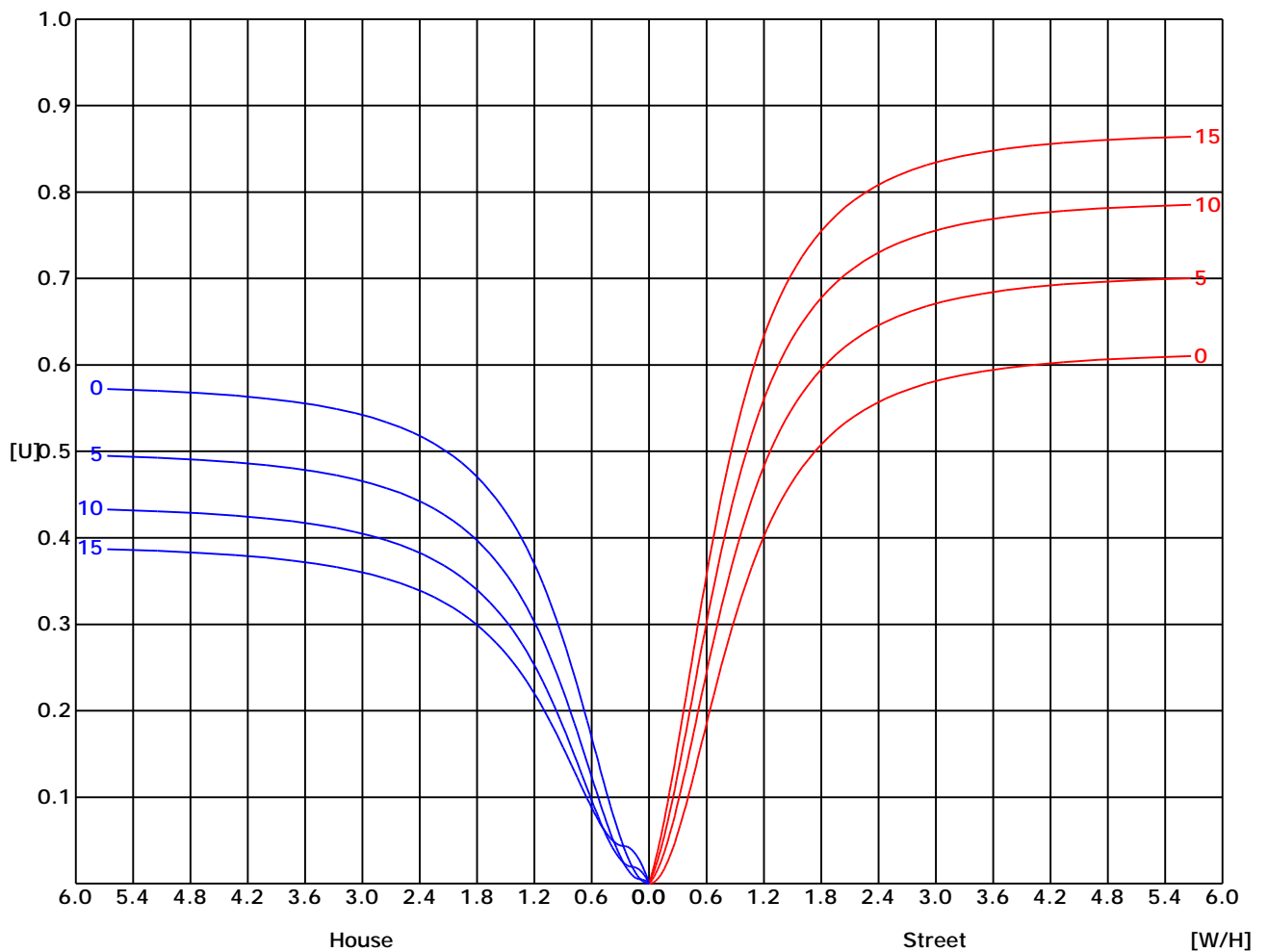
Test System: HuiPu CPM-1800B Goniophotometer

Humidity:

Test Distance: 6.4 m

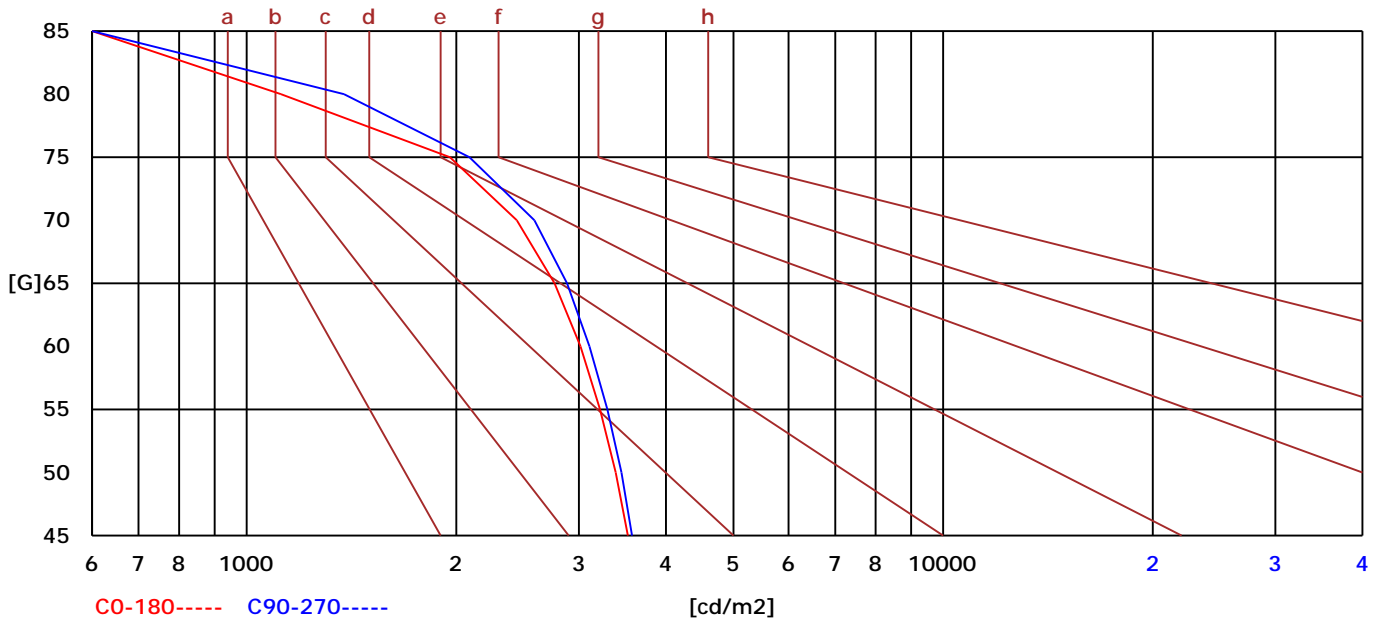
Remarks:

UTILIZATION FACTOR DIAGRAM (ROAD)



BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	3526	3388	3217	3015	2769	2443	1958	1120	0
C90	3578	3452	3296	3107	2886	2590	2089	1380	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:

Operators:

Test Date: 2020/2/28 15:51:51

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity:

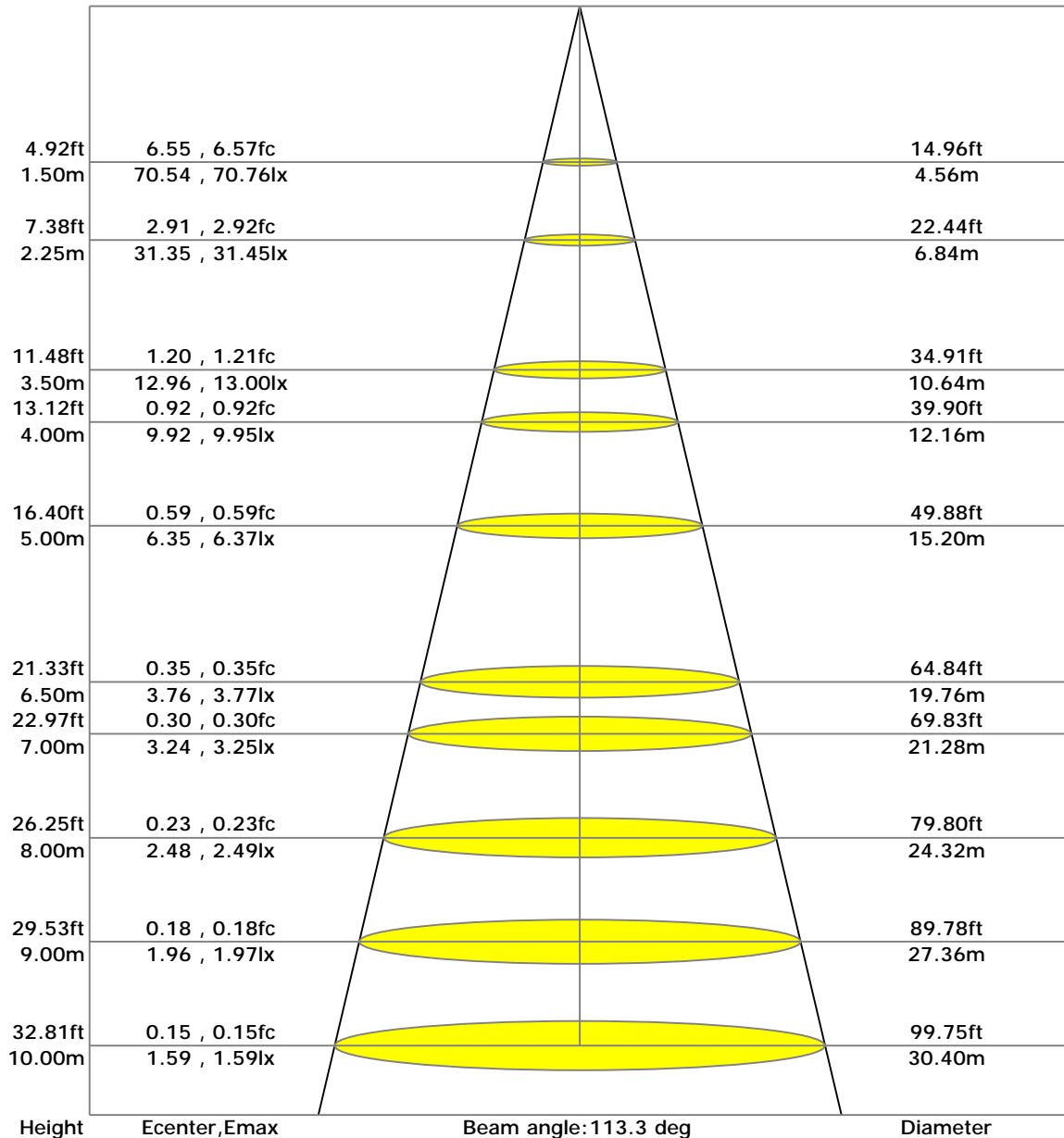
Test Distance: 6.4 m

Remarks:

Report No.:

Test Time: 2020/2/28 15:51:51

LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2020/2/28 15:51:51

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity:

Test Distance: 6.4 m

Remarks:

Report No.:

Test Time: 2020/2/28 15:51:51

UGR(Unified Glare Rating) TABLE

RHOCC		70	70	50	50	30	70	70	50	50	30
RHOW		70	70	50	50	30	70	70	50	50	30
RHOF		20	20	20	20	20	20	20	20	20	20
Room Size X Y		Viewed Endwise					Viewed Crosswise				
2H	2H	18.31	18.39	18.52	18.58	18.82	18.22	18.30	18.42	18.49	18.73
	3H	18.41	18.48	18.62	18.68	18.92	18.33	18.40	18.53	18.59	18.84
	4H	18.41	18.48	18.62	18.68	18.93	18.33	18.40	18.54	18.60	18.85
	6H	18.39	18.46	18.61	18.66	18.91	18.31	18.38	18.52	18.58	18.83
	8H	18.37	18.44	18.59	18.64	18.90	18.29	18.36	18.51	18.56	18.82
	12H	18.36	18.42	18.58	18.63	18.89	18.28	18.34	18.50	18.55	18.80
4H	2H	20.65	20.72	20.86	20.91	21.16	20.48	20.55	20.69	20.75	21.00
	3H	20.82	20.89	21.05	21.10	21.35	20.67	20.73	20.89	20.94	21.19
	4H	20.84	20.91	21.07	21.12	21.38	20.69	20.75	20.92	20.97	21.23
	6H	20.83	20.88	21.06	21.11	21.37	20.68	20.73	20.91	20.96	21.22
	8H	20.81	20.86	21.05	21.09	21.36	20.66	20.71	20.90	20.94	21.21
	12H	20.79	20.84	21.03	21.07	21.34	20.64	20.69	20.89	20.92	21.19
8H	4H	21.08	21.15	21.30	21.35	21.61	20.81	20.88	21.03	21.08	21.33
	6H	21.32	21.37	21.58	21.61	21.88	21.05	21.10	21.30	21.34	21.61
	8H	21.30	21.35	21.56	21.59	21.87	21.03	21.07	21.29	21.32	21.60
	12H	21.28	21.32	21.55	21.57	21.85	21.01	21.05	21.27	21.30	21.58
12H	4H	21.36	21.42	21.61	21.65	21.92	21.05	21.10	21.30	21.33	21.60
	6H	21.35	21.39	21.61	21.64	21.91	21.03	21.07	21.29	21.32	21.60

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2020/2/28 15:51:51

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity:

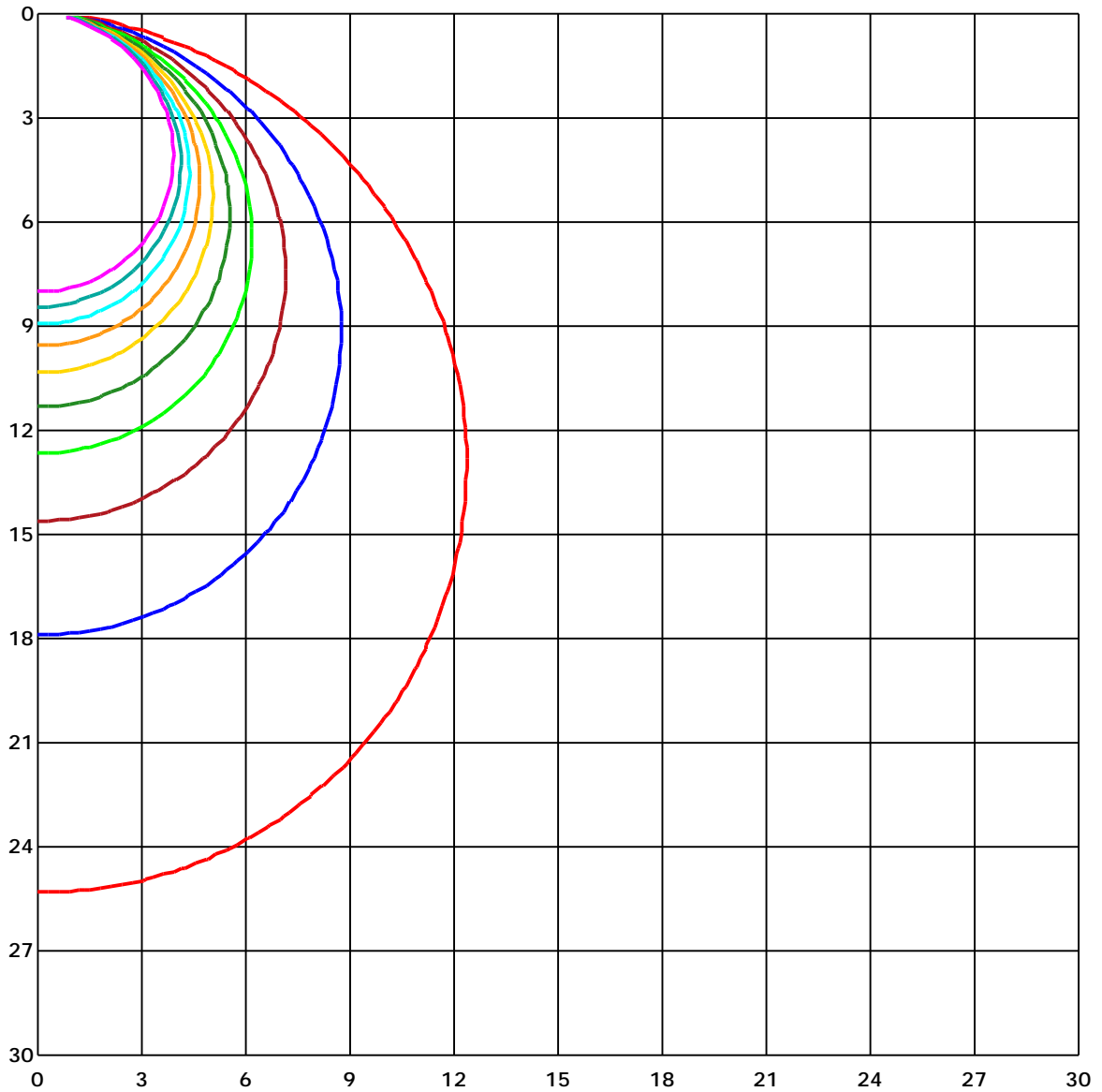
Test Distance: 6.4 m

Remarks:

Report No.:

Test Time: 2020/2/28 15:51:51

SPACE ISOLX DIAGRAM



Unit of illumination: lx

- | | |
|---------|---------|
| — 2.481 | — 1.24 |
| — 2.233 | — 0.992 |
| — 1.985 | — 0.744 |
| — 1.737 | — 0.496 |
| — 1.489 | — 0.248 |

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2020/2/28 15:51:51

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity:

Test Distance: 6.4 m

Remarks:

Report No.:

Test Time: 2020/2/28 15:51:51

LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	158.72	159.21	159.01	159.01	158.8	158.92	158.39	158.84	158.76	
G1	158.8	158.8	159.01	159.01	158.97	159.05	158.88	158.88	158.84	
G2	158.88	158.68	159.01	158.84	159.01	159.09	158.84	158.88	158.92	
G3	158.88	158.43	158.88	158.68	159.01	159.09	158.92	158.84	158.84	
G4	158.76	158.15	158.68	158.43	158.97	159.01	158.97	158.72	158.97	
G5	158.64	157.82	158.43	158.11	158.84	158.84	158.97	158.43	158.56	
G6	158.39	157.33	158.11	157.66	158.97	158.6	158.84	158.27	158.68	
G7	158.06	156.71	157.74	157.25	158.35	158.35	158.92	157.98	158.02	
G8	157.7	156.3	157.41	156.75	158.06	157.53	158.47	157.57	157.61	
G9	157.29	155.73	156.75	156.1	157.7	157.49	158.19	156.84	157.25	
G10	156.84	154.79	156.26	155.2	157.41	156.96	157.82	156.63	156.96	
G11	156.26	154.09	155.65	154.79	156.84	156.39	157.45	156.06	156.26	
G12	155.69	153.64	154.99	154.05	156.22	155.81	157.0	155.4	155.73	
G13	154.95	152.82	154.34	153.23	155.69	155.12	156.51	154.58	155.12	
G14	154.26	151.92	153.19	152.33	155.07	154.42	155.89	153.97	154.38	
G15	153.56	150.98	152.7	151.43	154.34	153.72	155.32	153.19	153.64	
G16	152.7	149.95	151.84	150.65	153.56	152.86	154.62	152.33	152.54	
G17	151.92	148.93	150.9	149.46	152.78	151.96	153.93	151.43	152.0	
G18	151.14	147.82	149.87	148.44	151.88	151.02	153.15	150.45	151.14	
G19	150.04	146.68	148.64	147.33	150.98	150.08	151.96	149.67	149.87	
G20	148.93	145.74	147.74	146.15	150.0	149.01	151.43	148.36	149.09	
G21	147.87	144.26	146.64	144.96	148.97	147.95	150.45	147.25	148.07	
G22	147.05	142.95	145.45	143.89	147.82	146.8	149.38	146.1	146.88	
G23	145.65	141.56	144.22	142.5	146.76	145.61	148.36	144.88	145.69	
G24	144.67	140.21	142.91	140.98	145.74	144.38	147.25	143.56	144.63	
G25	143.16	138.65	141.56	139.51	144.3	143.07	146.06	142.21	143.32	
G26	141.8	137.18	140.08	138.04	142.99	141.56	145.12	140.86	141.84	
G27	140.41	135.58	138.61	136.52	141.6	140.29	143.81	139.43	140.66	
G28	138.98	133.98	137.13	134.88	140.25	138.85	142.21	137.91	138.98	
G29	137.5	132.26	135.54	133.24	138.77	137.3	140.82	136.36	137.46	
G30	135.91	130.54	133.94	131.52	137.3	135.74	139.31	134.64	135.91	
G31	134.31	128.78	132.26	129.56	135.91	134.1	138.04	132.87	134.31	
G32	132.67	126.98	130.58	128.0	134.14	132.46	136.27	131.4	132.67	
G33	130.95	125.09	128.82	126.16	132.42	130.7	134.76	129.68	130.99	
G34	129.23	123.21	127.02	124.31	130.79	128.78	133.08	127.92	129.23	
G35	127.39	121.04	125.21	122.35	129.07	127.1	131.52	126.07	127.34	
G36	125.58	119.19	123.33	120.34	127.18	125.26	129.76	124.15	125.54	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2020/2/28 15:51:51

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity:

Test Distance: 6.4 m

Remarks:

Report No.:

Test Time: 2020/2/28 15:51:51

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	123.49	117.06	121.36	118.33	125.42	123.33	128.04	122.18	123.74	
G38	121.73	115.1	119.19	116.45	123.33	121.41	126.16	120.22	121.82	
G39	119.73	113.05	117.35	114.2	121.32	119.44	124.31	118.17	119.81	
G40	117.76	110.88	115.3	112.35	119.69	117.39	122.39	116.2	117.64	
G41	115.67	108.83	113.13	110.02	117.6	115.3	120.42	114.03	115.59	
G42	113.62	106.58	111.12	107.81	115.67	113.21	118.46	111.9	113.71	
G43	111.45	104.2	108.91	105.59	113.54	111.08	116.45	109.77	111.49	
G44	109.28	102.07	106.7	103.34	111.33	108.91	114.32	107.56	109.36	
G45	107.27	99.74	104.49	101.21	109.28	106.7	112.19	105.31	107.15	
G46	104.86	97.16	102.2	98.71	107.03	104.41	110.02	103.01	104.9	
G47	102.73	94.74	100.02	96.26	104.78	102.07	107.81	100.6	102.6	
G48	100.27	92.2	97.53	93.8	102.48	99.66	105.8	98.14	100.27	
G49	97.94	89.62	95.07	91.26	100.07	97.16	103.22	95.64	97.81	
G50	95.31	87.12	92.57	88.76	97.61	94.74	100.8	93.18	95.31	
G51	92.77	84.5	90.15	86.18	95.27	92.16	98.34	90.6	92.77	
G52	90.28	81.88	87.53	83.56	92.65	89.66	95.97	88.06	90.32	
G53	87.61	79.18	84.91	80.94	90.07	87.04	93.39	85.4	87.7	
G54	85.07	76.43	82.25	78.11	87.53	84.42	90.89	82.82	85.07	
G55	82.41	73.81	79.63	75.61	84.83	81.63	88.27	80.12	82.41	
G56	79.75	71.19	77.0	72.95	82.29	79.18	85.73	77.5	79.79	
G57	77.05	68.44	74.34	70.25	79.59	76.47	83.07	74.67	77.09	
G58	74.38	65.62	71.68	67.58	76.92	73.81	80.49	71.97	74.38	
G59	71.56	63.0	68.94	64.8	74.22	71.07	77.78	69.35	71.64	
G60	68.94	60.29	66.31	62.14	71.56	68.36	75.16	66.64	68.98	
G61	66.15	57.59	63.53	59.43	68.81	65.7	72.46	63.98	66.15	
G62	63.41	54.89	60.87	56.77	66.07	63.04	69.8	61.28	63.49	
G63	60.7	52.14	58.16	54.07	63.28	60.29	66.93	58.57	60.7	
G64	57.96	49.52	55.5	51.45	60.66	57.63	64.43	55.87	58.04	
G65	55.17	46.82	52.8	48.78	57.92	54.93	61.73	53.21	55.21	
G66	52.51	44.15	50.18	46.12	55.21	52.35	59.06	50.63	52.55	
G67	49.89	41.49	47.47	43.46	52.31	49.52	56.32	47.8	49.77	
G68	47.06	38.75	44.85	40.76	49.4	46.74	53.7	45.06	47.06	
G69	44.28	36.09	42.11	38.09	46.49	44.03	50.91	42.31	44.32	
G70	41.49	33.42	39.4	35.43	43.34	41.33	48.17	39.61	41.49	
G71	38.75	30.8	36.74	32.69	40.43	38.63	45.3	36.95	38.75	
G72	36.0	28.1	34.2	29.78	37.48	35.84	42.56	34.16	36.04	
G73	33.3	25.4	31.42	26.95	34.53	32.97	39.57	31.42	33.3	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2020/2/28 15:51:51

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity:

Test Distance: 6.4 m

Remarks:

