

Report No.:

Test Time: 2023/5/12 8:24:50

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: 0
Luminaire Type: STB05/STB05R
Lamp Type:
Luminous Width: 0 mm
Luminous Length: 0 mm
Luminous Height: 0 mm

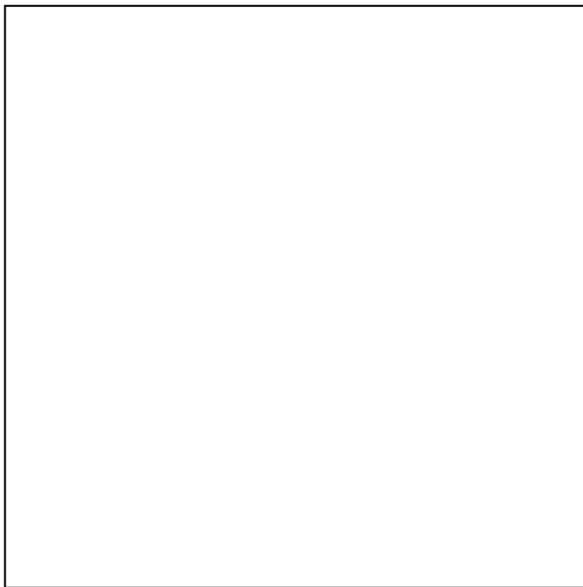
Voltage(V): 11.70 V
Current(A): 0.1290 A
Power(W): 1.44 W
Power Factor: 0.7440
Lamp Luminous Flux: 98.01

Photometric Results

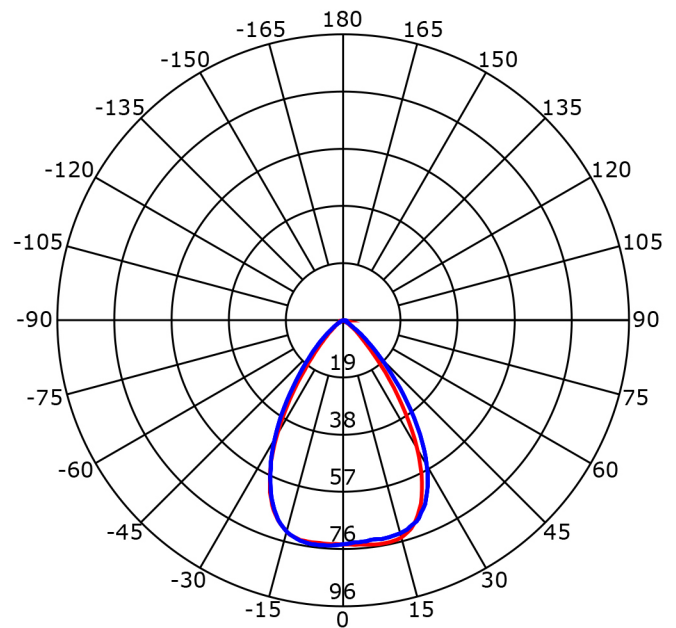
CIE Class: Direct
Luminaire Luminous Flux: 98.01443 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 65.59 lm/W
Beam Angle(50%) C0-180,C90-270: 65.7,70.0
Field Angle(10%) C0-180,C90-270: 93.3,101.6
S/MH C0-180,C90-270: 1.063,1.063

Max. Intensity: 76.48 cd
Max.Intensity Angle: C=315 Gamma=11
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 74.98 cd
Effective Luminous Flux: 96.50 lm
ERP(ϕ use)(120deg): 95.50 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 65.7 deg,70.0 deg

C0-180 — C90-270 —

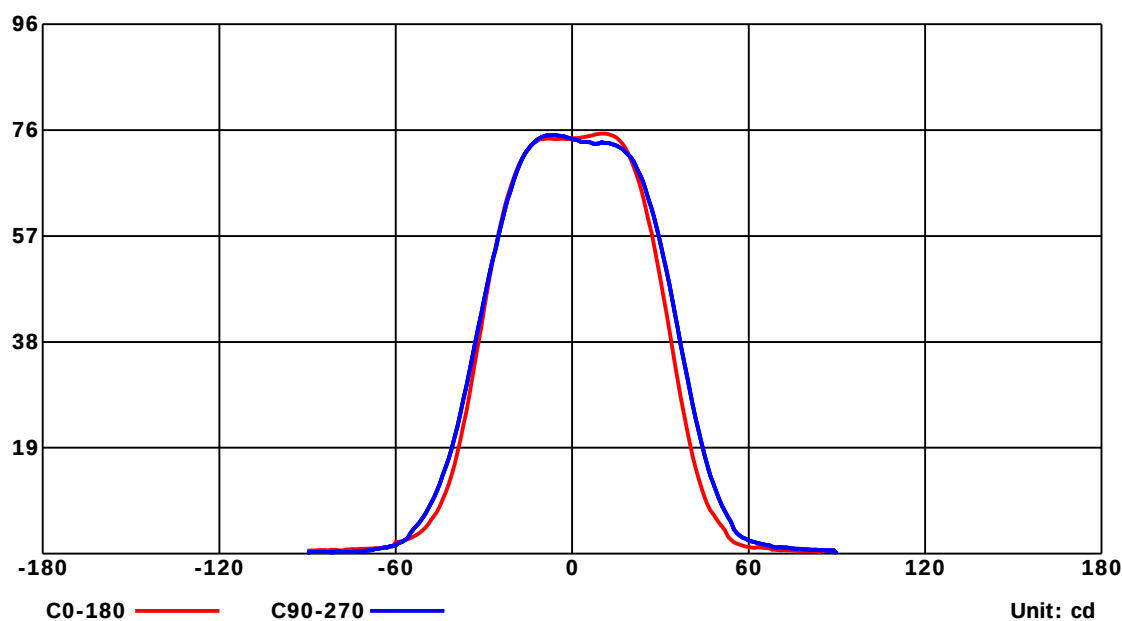
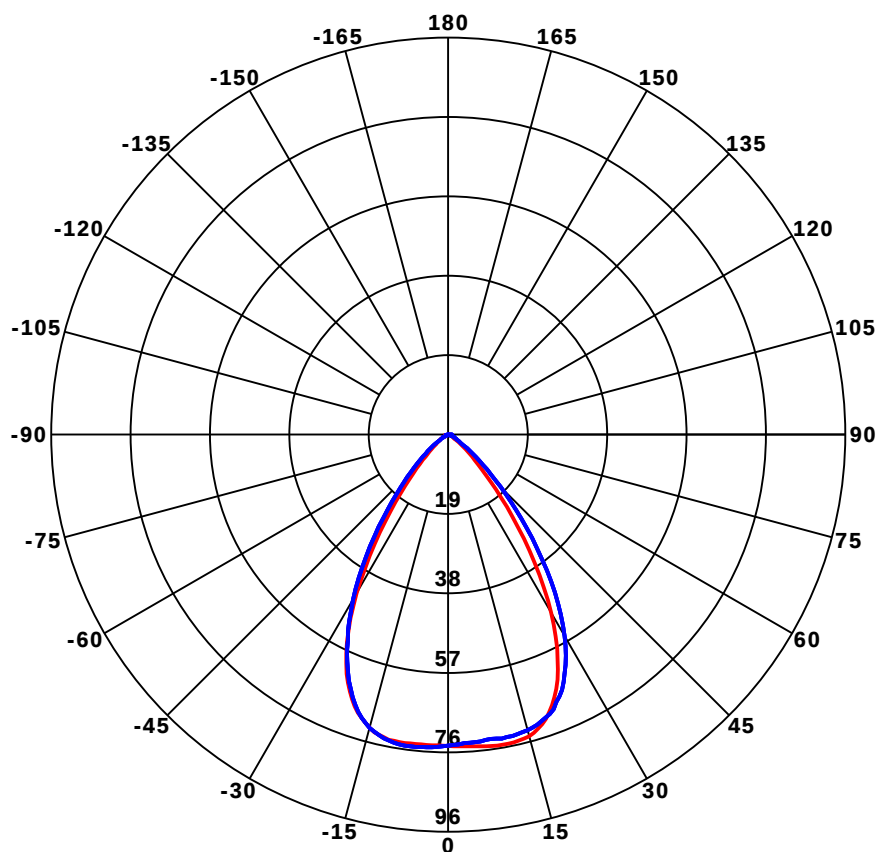
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2023/5/12 8:24:50

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1800B Goniophotometer
Humidity:
Test Distance: 6.38 m
Remarks:

Report No.:

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Luminous Intensity Distribution Curve



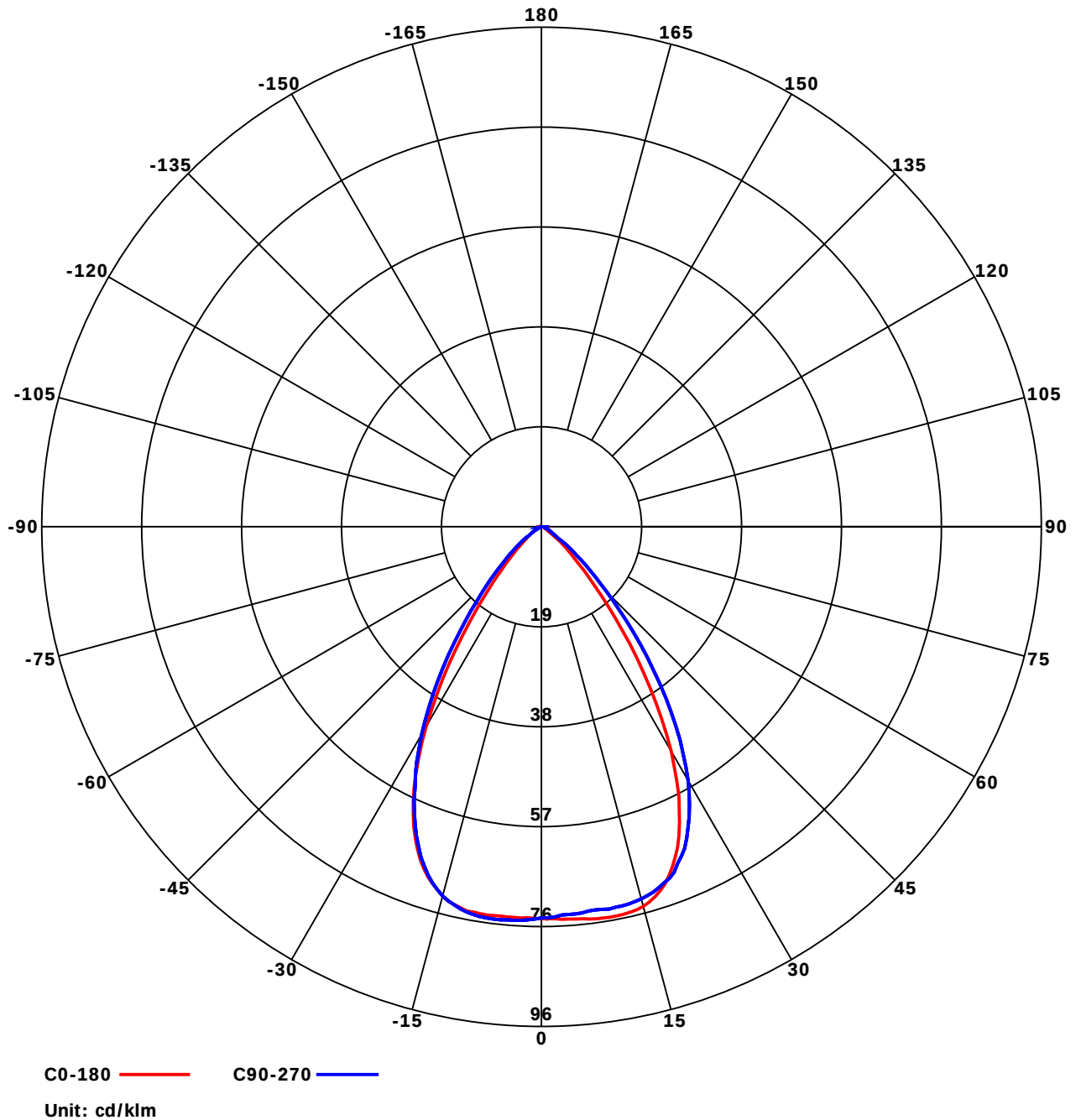
C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2023/5/12 8:24:50

G Range: 0 - 90 Deg
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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: 2023/5/12 8:24:50

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1800B Goniophotometer
Humidity:
Test Distance: 6.38 m
Remarks:

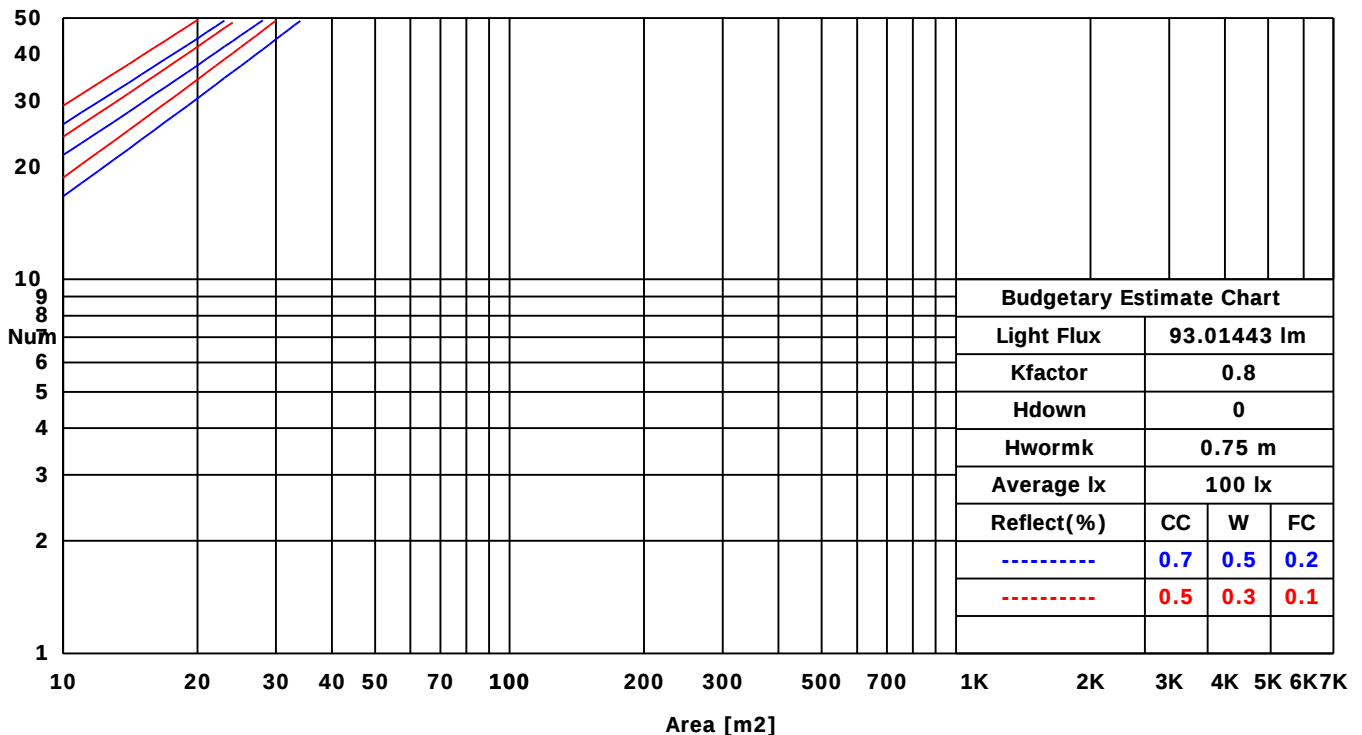
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UTILIZATION FACTORS TABLE

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	1.08	1.06	1.05	1.06	1.05	1.03	1.03	1.01	0.99	0.98	0.96	0.94	0.91	0.89	0.87	0.82
2	1.02	1.00	0.99	1.00	0.99	0.97	0.97	0.95	0.93	0.93	0.90	0.88	0.87	0.84	0.82	0.77
3	0.96	0.95	0.93	0.95	0.93	0.91	0.92	0.90	0.87	0.88	0.85	0.83	0.84	0.80	0.78	0.73
4	0.91	0.90	0.89	0.90	0.88	0.87	0.88	0.85	0.83	0.84	0.81	0.78	0.80	0.77	0.74	0.69
5	0.87	0.85	0.84	0.86	0.84	0.82	0.84	0.81	0.78	0.81	0.77	0.74	0.77	0.73	0.70	0.66
6	0.83	0.81	0.80	0.82	0.80	0.78	0.80	0.77	0.75	0.77	0.74	0.71	0.74	0.70	0.67	0.63
7	0.79	0.77	0.76	0.78	0.76	0.75	0.76	0.73	0.71	0.74	0.70	0.67	0.71	0.67	0.64	0.60
8	0.76	0.74	0.73	0.75	0.73	0.71	0.73	0.70	0.68	0.71	0.67	0.64	0.69	0.64	0.61	0.57
9	0.72	0.71	0.70	0.72	0.70	0.68	0.70	0.67	0.65	0.68	0.65	0.62	0.66	0.62	0.58	0.55
10	0.70	0.68	0.67	0.69	0.67	0.66	0.67	0.65	0.63	0.66	0.62	0.59	0.64	0.59	0.56	0.53

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



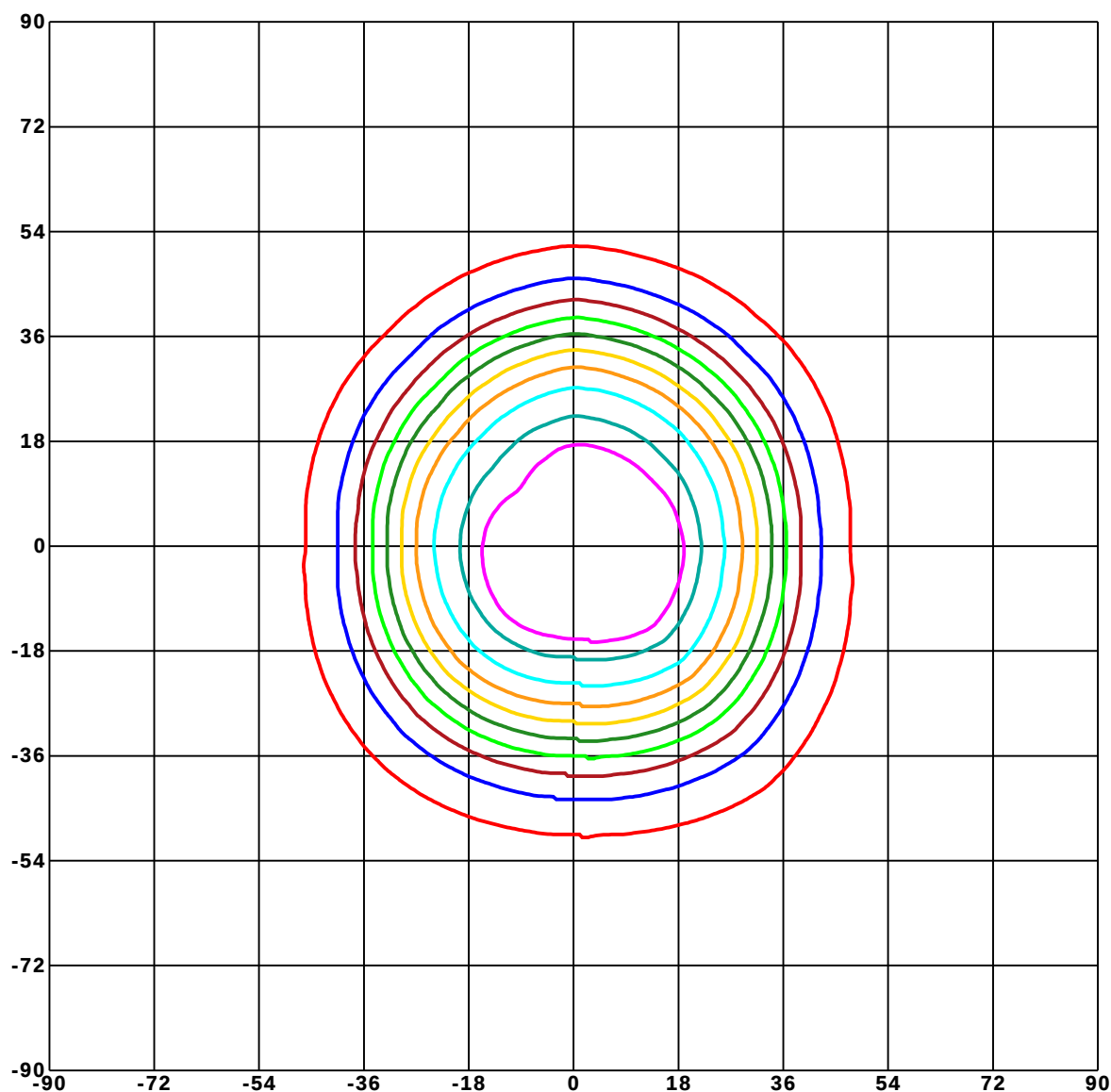
C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2023/5/12 8:24:50

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1800B Goniophotometer
 Humidity:
 Test Distance: 6.38 m
 Remarks:

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ISOCANDELA DIAGRAM (RECTANGULAR)



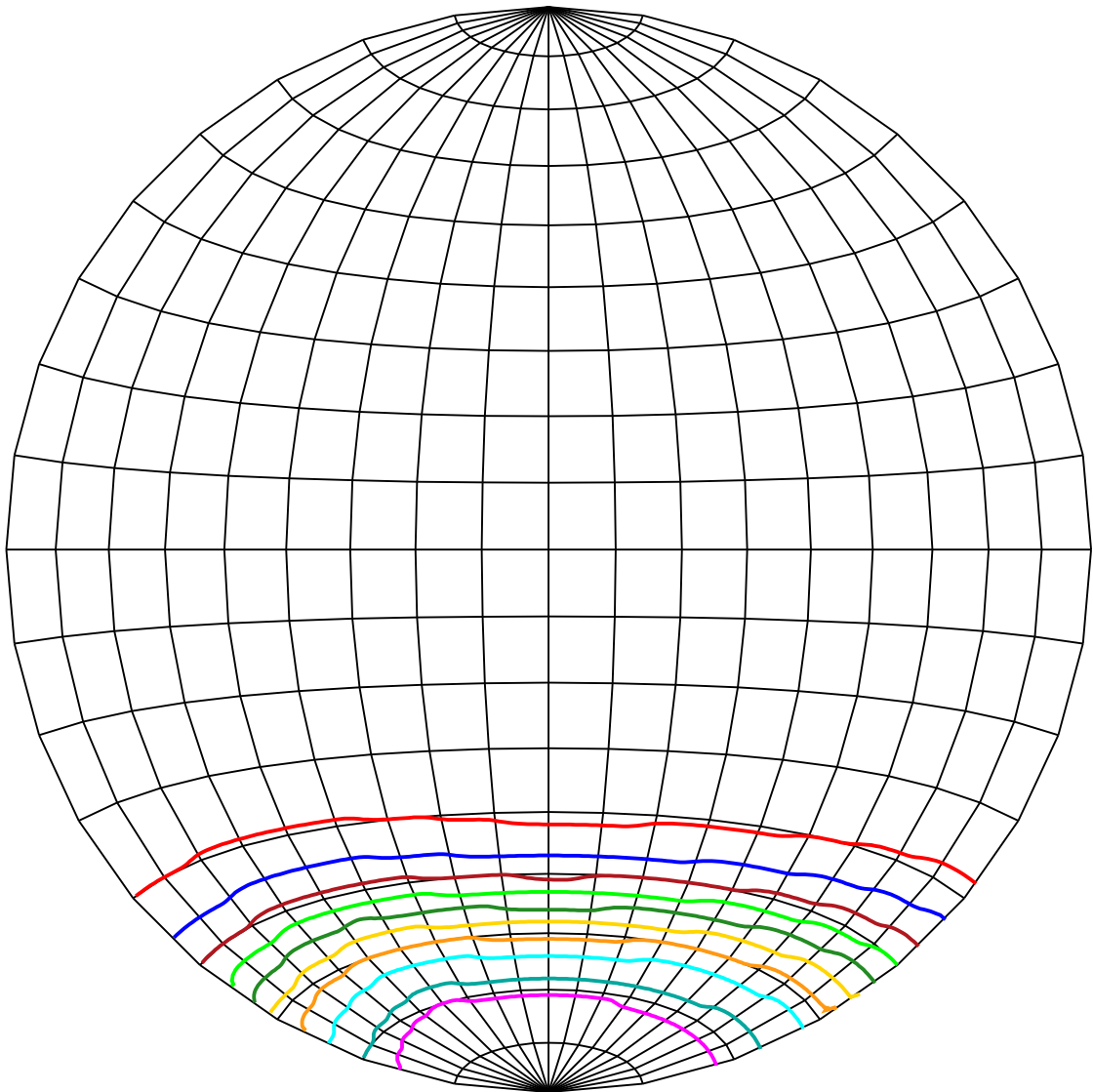
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2023/5/12 8:24:50

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1800B Goniophotometer
Humidity:
Test Distance: 6.38 m
Remarks:

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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd I_{max}(100%): 76.484 cd

72.659(95%I_{max})
68.835(90%I_{max})
61.187(80%I_{max})
53.538(70%I_{max})
45.89(60%I_{max})

38.242(50%I_{max})
30.593(40%I_{max})
22.945(30%I_{max})
15.297(20%I_{max})
7.648(10%I_{max})

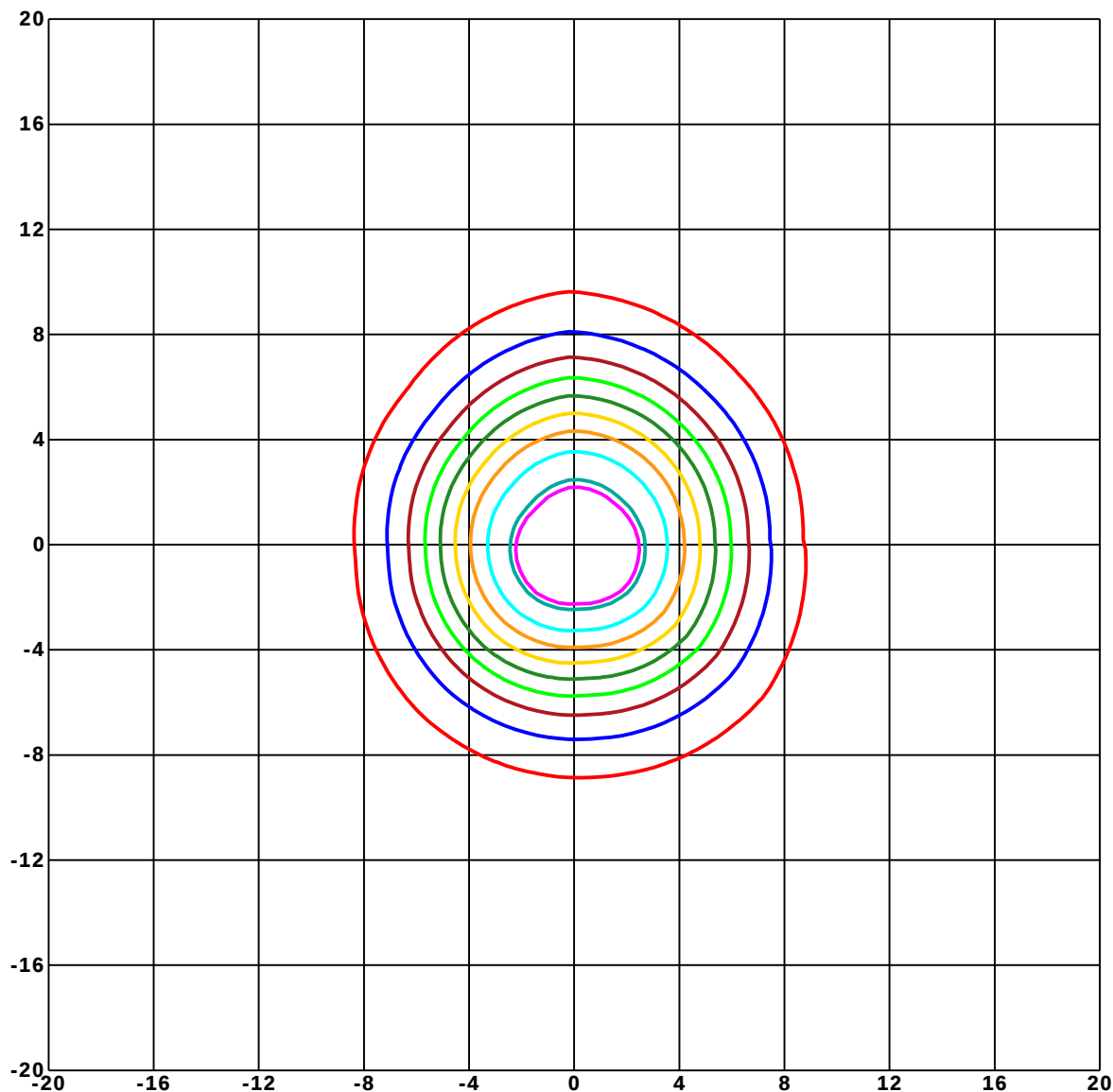
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Humidity:
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ISOLX DIAGRAM



Unit of illumination:lx

Height of plane:10.0(m)/32.81(ft)

0.691(1%E_{max})

0.376(0%E_{max})

0.676(1%E_{max})

0.3(0%E_{max})

0.601(1%E_{max})

0.225(0%E_{max})

0.526(1%E_{max})

0.15(0%E_{max})

0.451(1%E_{max})

0.075(0%E_{max})

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2023/5/12 8:24:50

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity:

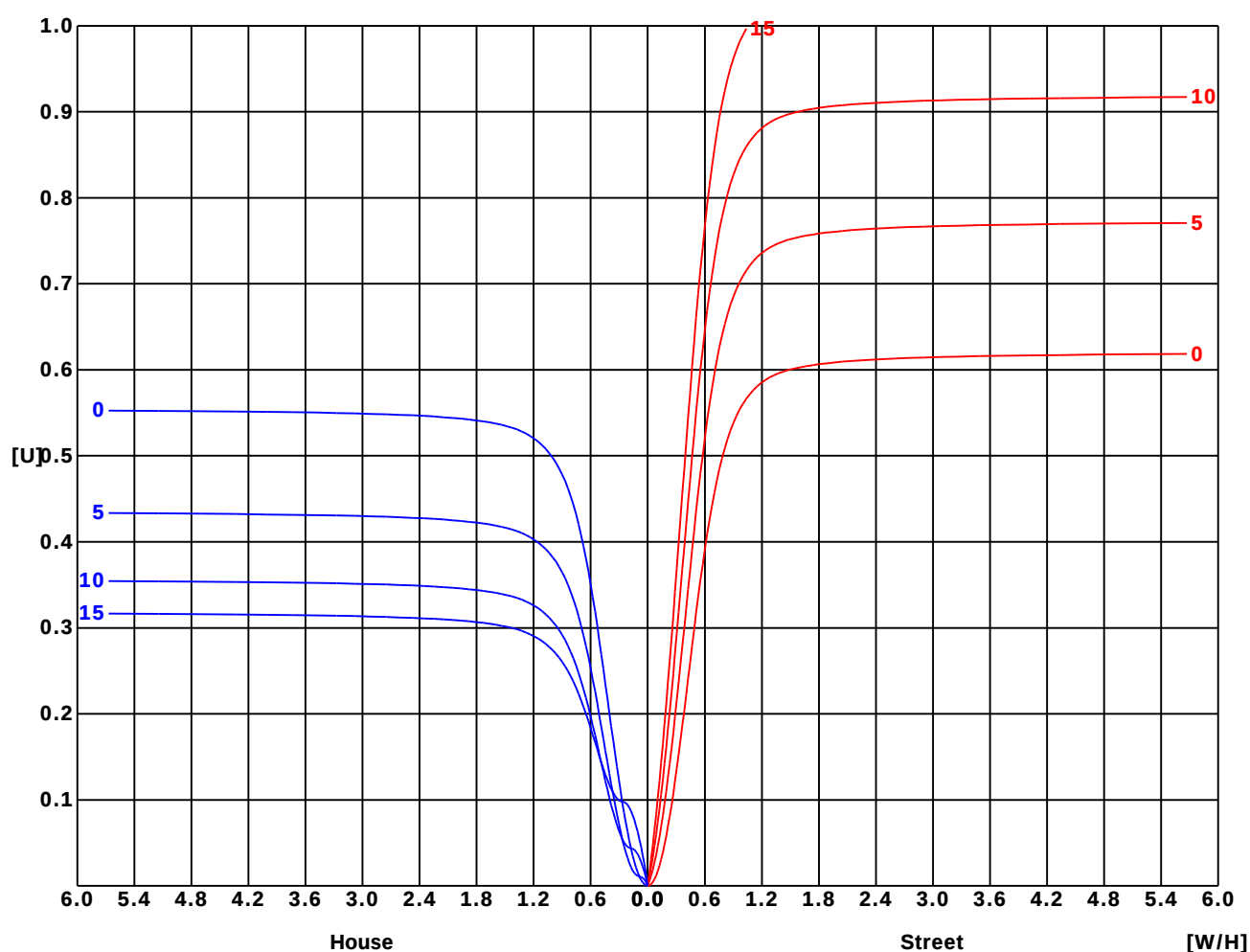
Test Distance: 6.38 m

Remarks:

Report No.:

Test Time: 2023/5/12 8:24:50

UTILIZATION FACTOR DIAGRAM (ROAD)



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2023/5/12 8:24:50

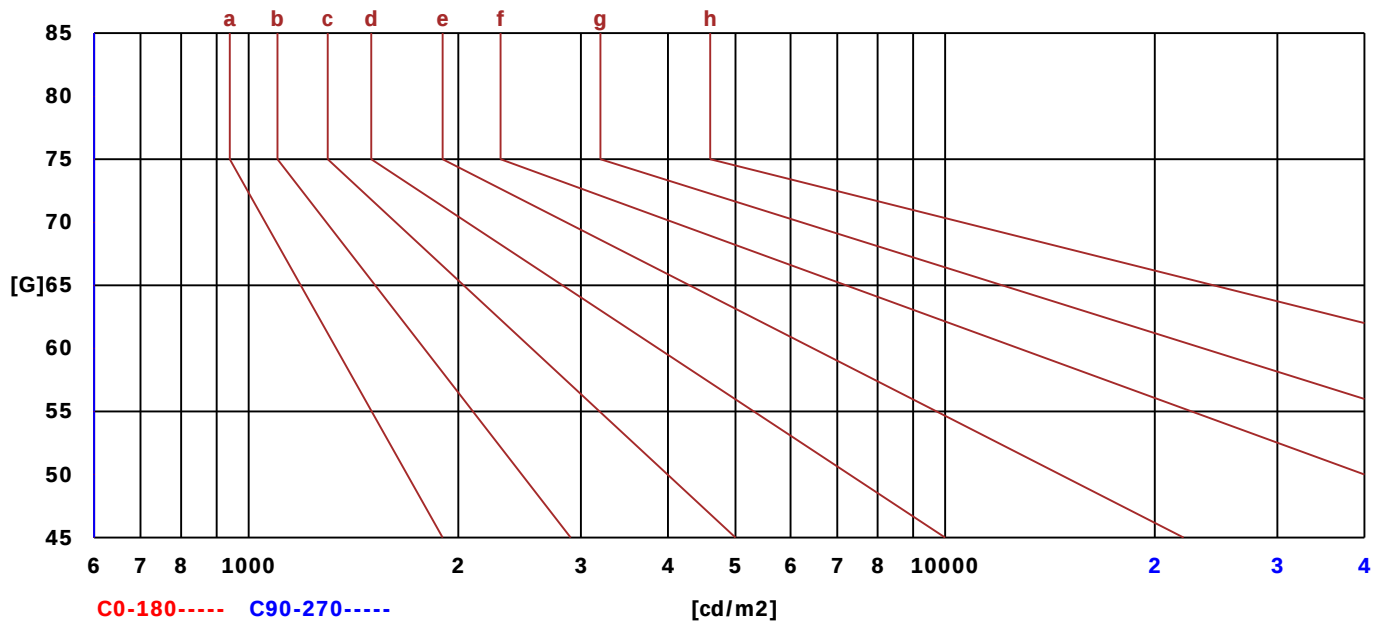
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1800B Goniophotometer
Humidity:
Test Distance: 6.38 m
Remarks:

Report No.:

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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	432	250	140	83	53	61	47	47	82
C90	364	193	106	71	60	33	28	59	70
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



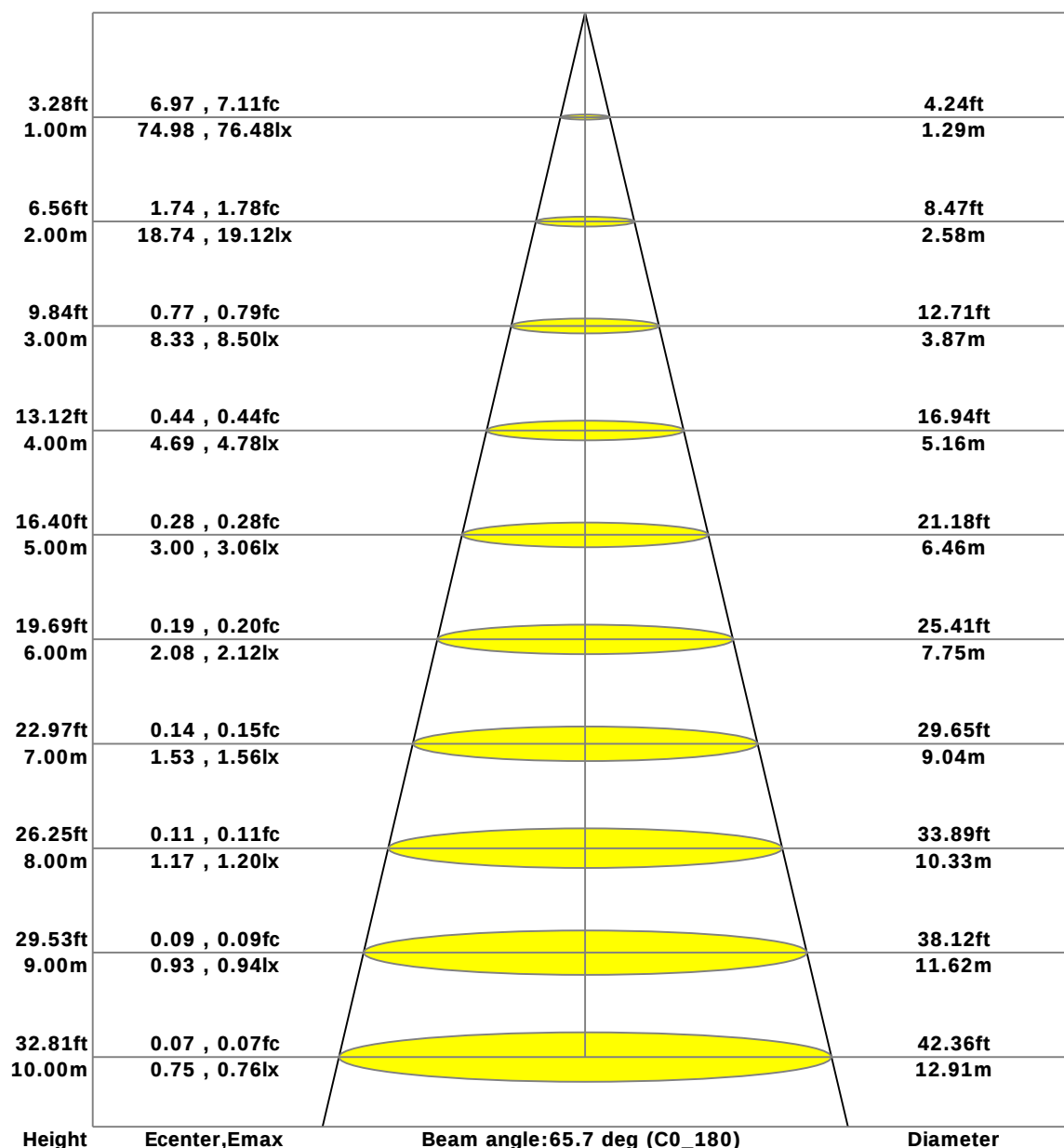
C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2023/5/12 8:24:50

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1800B Goniophotometer
 Humidity:
 Test Distance: 6.38 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: 2023/5/12 8:24:50

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1800B Goniophotometer
 Humidity:
 Test Distance: 6.38 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	11.46	11.51	11.66	11.70	11.94	12.38	12.44	12.58	12.63	12.87
3H	11.43	11.49	11.64	11.68	11.93	12.36	12.41	12.56	12.60	12.85
4H	11.42	11.47	11.63	11.67	11.92	12.34	12.39	12.55	12.59	12.84
6H	11.40	11.45	11.62	11.65	11.91	12.32	12.37	12.54	12.57	12.82
8H	11.39	11.44	11.61	11.65	11.90	12.31	12.36	12.53	12.57	12.82
12H	11.38	11.43	11.60	11.64	11.89	12.30	12.35	12.52	12.56	12.81
4H 2H	11.57	11.62	11.78	11.82	12.07	12.59	12.65	12.80	12.84	13.09
3H	11.56	11.61	11.78	11.82	12.07	12.58	12.63	12.80	12.84	13.09
4H	11.55	11.60	11.78	11.81	12.07	12.56	12.61	12.79	12.83	13.08
6H	11.53	11.58	11.77	11.80	12.07	12.54	12.59	12.78	12.81	13.07
8H	11.52	11.57	11.77	11.80	12.06	12.53	12.58	12.77	12.80	13.07
12H	11.51	11.56	11.76	11.79	12.06	12.52	12.56	12.76	12.79	13.06
8H 4H	11.67	11.72	11.89	11.93	12.18	12.77	12.83	12.99	13.03	13.28
6H	11.70	11.75	11.96	11.99	12.26	12.80	12.85	13.06	13.09	13.36
8H	11.70	11.74	11.96	11.99	12.27	12.80	12.84	13.06	13.08	13.36
12H	11.70	11.74	11.97	12.00	12.28	12.79	12.83	13.06	13.08	13.36
12H 4H	11.81	11.85	12.06	12.08	12.35	12.99	13.03	13.24	13.26	13.53
6H	11.84	11.88	12.10	12.12	12.40	13.02	13.06	13.28	13.30	13.58

C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
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G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1800B Goniophotometer
 Humidity:
 Test Distance: 6.38 m
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ZONAL LUMINOUS FLUX TABLE

[illegible]

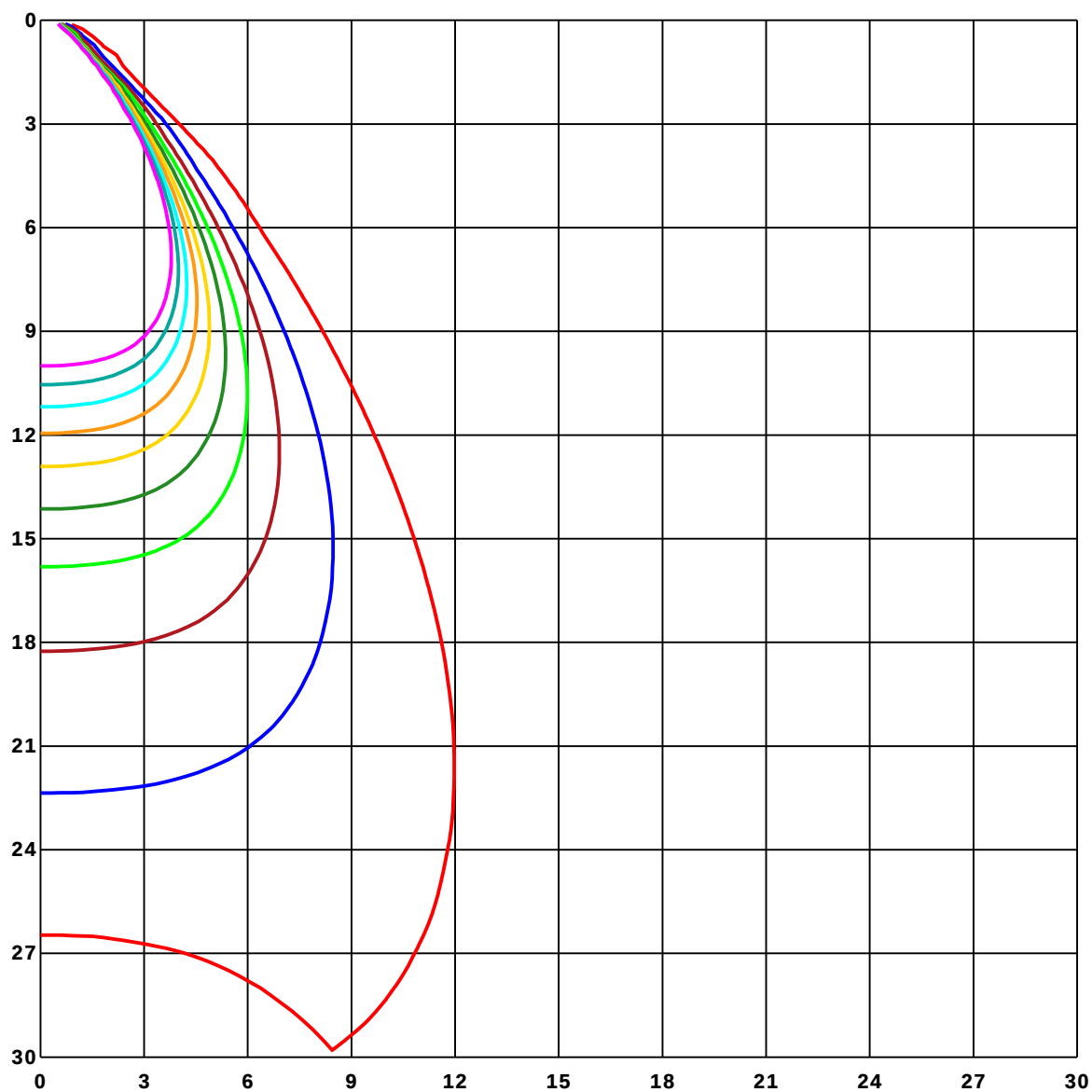
C Range: 0 - 360 Deg
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Temperature:
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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SPACE ISOLX DIAGRAM



Unit of illumination:lx



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2023/5/12 8:24:50

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity:

Test Distance: 6.38 m

Remarks:

Report No.:

Test Time: 2023/5/12 8:24:50

LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma/C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	74.98	74.86	74.86	74.77	74.98	74.86	74.86	74.77	74.98	
G1	75.02	74.81	74.77	74.57	74.94	75.02	75.06	74.98	75.02	
G2	75.06	74.69	74.65	74.37	74.86	75.06	75.22	75.18	75.06	
G3	75.18	74.61	74.37	74.24	74.94	75.26	75.38	75.43	75.18	
G4	75.22	74.45	74.37	74.12	74.94	75.26	75.47	75.59	75.22	
G5	75.3	74.41	74.33	73.96	74.9	75.51	75.51	75.79	75.3	
G6	75.43	74.37	74.29	73.84	74.9	75.55	75.63	75.95	75.43	
G7	75.59	74.37	74.04	73.8	74.94	75.67	75.59	76.16	75.59	
G8	75.71	74.33	74.0	73.63	74.98	75.63	75.59	76.32	75.71	
G9	75.79	74.41	74.08	73.55	74.94	75.47	75.51	76.4	75.79	
G10	75.83	74.29	74.29	73.43	74.86	75.43	75.3	76.44	75.83	
G11	75.83	74.24	74.16	73.27	74.9	75.38	75.06	76.48	75.83	
G12	75.79	74.16	74.16	73.02	74.49	75.18	74.73	76.4	75.79	
G13	75.63	74.0	74.04	72.74	74.16	74.81	74.24	76.24	75.63	
G14	75.47	73.84	73.88	72.37	73.84	74.37	73.72	75.91	75.47	
G15	75.18	73.72	73.72	71.97	73.06	73.72	73.11	75.59	75.18	
G16	74.69	73.27	73.43	71.31	72.25	73.02	72.25	75.1	74.69	
G17	74.04	72.98	73.11	70.83	71.4	72.05	71.27	74.49	74.04	
G18	73.31	72.25	72.58	70.01	70.38	70.91	70.13	73.72	73.31	
G19	72.33	71.56	72.05	69.16	69.16	69.69	68.79	72.82	72.33	
G20	71.11	70.7	71.56	68.06	67.77	68.14	67.33	71.8	71.11	
G21	69.77	69.73	70.78	66.8	66.19	66.43	65.57	70.54	69.77	
G22	68.18	68.55	69.48	65.37	64.39	64.76	63.91	69.2	68.18	
G23	66.55	67.2	68.46	63.78	62.56	62.93	61.87	67.73	66.55	
G24	64.64	65.62	67.33	61.87	60.32	60.98	59.79	66.14	64.64	
G25	62.4	63.91	65.7	59.71	58.04	58.98	57.64	64.44	62.4	
G26	60.08	61.95	63.95	57.56	55.6	56.86	55.2	62.6	60.08	
G27	57.84	59.84	62.24	55.24	52.92	54.5	53.16	60.53	57.84	
G28	55.07	57.43	60.28	52.63	50.11	51.94	50.84	58.13	55.07	
G29	52.35	54.87	58.21	49.94	47.18	49.21	48.32	55.6	52.35	
G30	49.54	52.31	56.01	47.18	44.12	46.36	45.87	52.96	49.54	
G31	46.57	49.42	53.65	44.41	40.83	43.59	43.27	50.19	46.57	
G32	43.43	46.48	51.08	41.52	37.65	40.54	40.58	47.34	43.43	
G33	40.38	43.55	48.64	38.51	34.76	37.65	38.06	44.45	40.38	
G34	37.2	40.54	45.91	35.66	31.67	34.8	35.41	41.48	37.2	
G35	34.03	37.49	43.15	32.64	28.66	31.95	32.85	38.67	34.03	
G36	30.98	34.35	40.42	29.8	25.77	29.43	30.28	35.7	30.98	

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Test System: Huipu CPM-1800B Goniophotometer
Humidity:
Test Distance: 6.38 m
Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma/C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	28.05	31.38	37.49	26.99	23.12	26.7	27.8	32.85	28.05	
G38	25.11	28.33	34.64	24.34	20.56	24.26	25.36	30.16	25.11	
G39	22.43	25.64	32.12	21.94	18.32	21.82	23.04	27.52	22.43	
G40	19.9	23.0	29.43	19.46	16.12	19.54	21.04	25.03	19.9	
G41	17.54	20.43	26.82	17.26	14.29	17.54	19.01	22.63	17.54	
G42	15.43	18.32	24.38	15.39	12.62	15.63	17.22	20.35	15.43	
G43	13.43	16.2	22.06	13.64	11.07	14.12	15.63	18.32	13.43	
G44	11.76	14.29	19.86	11.8	9.85	12.5	14.25	16.44	11.76	
G45	10.22	12.21	17.79	10.3	8.63	11.03	12.7	14.73	10.22	
G46	8.83	11.03	15.83	9.12	7.57	9.85	11.4	13.23	8.83	
G47	7.82	9.52	14.08	7.77	6.84	8.91	10.18	11.8	7.82	
G48	7.08	8.47	12.58	6.72	6.06	7.86	9.12	10.58	7.08	
G49	6.27	7.41	11.11	5.78	5.25	7.04	8.1	9.44	6.27	
G50	5.5	6.43	9.81	4.97	4.64	6.39	7.12	8.43	5.5	
G51	4.84	5.62	8.59	4.4	4.15	5.78	6.35	7.53	4.84	
G52	4.19	4.76	7.57	3.7	3.7	5.13	5.62	6.72	4.19	
G53	3.09	4.23	6.63	3.22	3.38	4.6	5.01	6.02	3.09	
G54	2.48	3.66	5.66	2.81	3.05	4.15	4.4	5.37	2.48	
G55	2.04	3.22	4.36	2.44	2.81	3.79	3.7	4.88	2.04	
G56	1.83	2.77	3.7	2.08	2.61	3.42	2.77	4.4	1.83	
G57	1.63	2.44	3.26	1.95	2.44	3.13	2.44	3.95	1.63	
G58	1.47	2.12	2.93	1.75	2.28	2.85	2.12	3.58	1.47	
G59	1.3	1.91	2.65	1.59	2.16	2.61	1.91	3.22	1.3	
G60	1.22	1.67	2.4	1.42	2.08	2.44	1.51	2.93	1.22	
G61	1.14	1.47	2.24	1.3	1.42	2.24	1.34	2.73	1.14	
G62	1.06	1.34	2.08	1.22	1.22	2.12	1.34	2.48	1.06	
G63	1.18	1.22	1.91	1.14	1.14	1.95	1.1	2.08	1.18	
G64	1.12	1.02	1.79	1.1	1.1	1.83	1.1	1.91	1.12	
G65	1.06	0.9	1.71	1.02	1.06	1.71	0.98	1.79	1.06	
G66	1.02	0.94	1.59	0.98	1.02	1.59	0.9	1.63	1.02	
G67	0.98	0.73	1.55	0.9	0.98	1.51	0.85	1.38	0.98	
G68	0.73	0.73	1.3	0.65	0.94	1.47	0.65	1.26	0.73	
G69	0.69	0.85	1.14	0.57	0.94	1.38	0.57	1.34	0.69	
G70	0.65	0.83	1.18	0.45	0.9	1.24	0.53	1.14	0.65	
G71	0.61	0.81	1.18	0.41	0.85	1.1	0.49	1.1	0.61	
G72	0.65	0.57	1.14	0.37	0.85	1.0	0.49	1.06	0.65	
G73	0.57	0.57	1.1	0.33	0.81	0.9	0.45	1.02	0.57	

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2023/5/12 8:24:50

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1800B Goniophotometer
Humidity:
Test Distance: 6.38 m
Remarks:

Report No.:

Test Time: 2023/5/12 8:24:50

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

[illegible]

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2023/5/12 8:24:50

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1800B Goniophotometer
Humidity:
Test Distance: 6.38 m
Remarks: