

Report No.:

Test Time: 2022-06-20 14:24:54

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: rayhil
Luminaire Type: Que12-6-30-110-BK
Lamp Type:
Luminous Width: 9 mm
Luminous Length: 300 mm
Luminous Height: 8 mm

Voltage(V): 48.00 V
Current(A): 0.1460 A
Power(W): 7.01 W
Power Factor: 1.0000
Lamp Luminous Flux: 148.07

Photometric Results

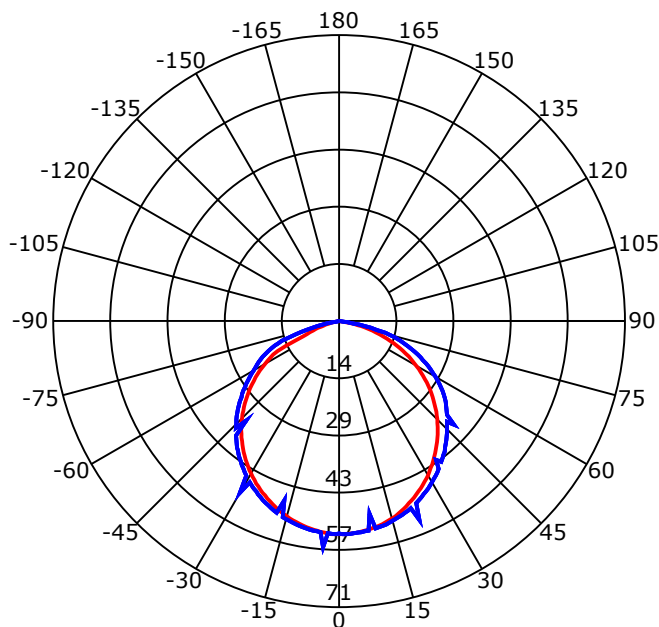
CIE Class: Direct
Luminaire Luminous Flux: 148.0719 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 21.12 lm/W
Beam Angle(50%) C0-180,C90-270: 109.5,114.9
Field Angle(10%) C0-180,C90-270: 149.5,156.5
S/MH C0-180,C90-270: 1.250,1.250

Max. Intensity: 57.15 cd
Max.Intensity Angle: C=30 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 53.22 cd
Effective Luminous Flux: 145.91 lm
ERP(ϕ use)(120deg): 120.17 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 109.5 deg,114.9 deg

C0-180 — C90-270

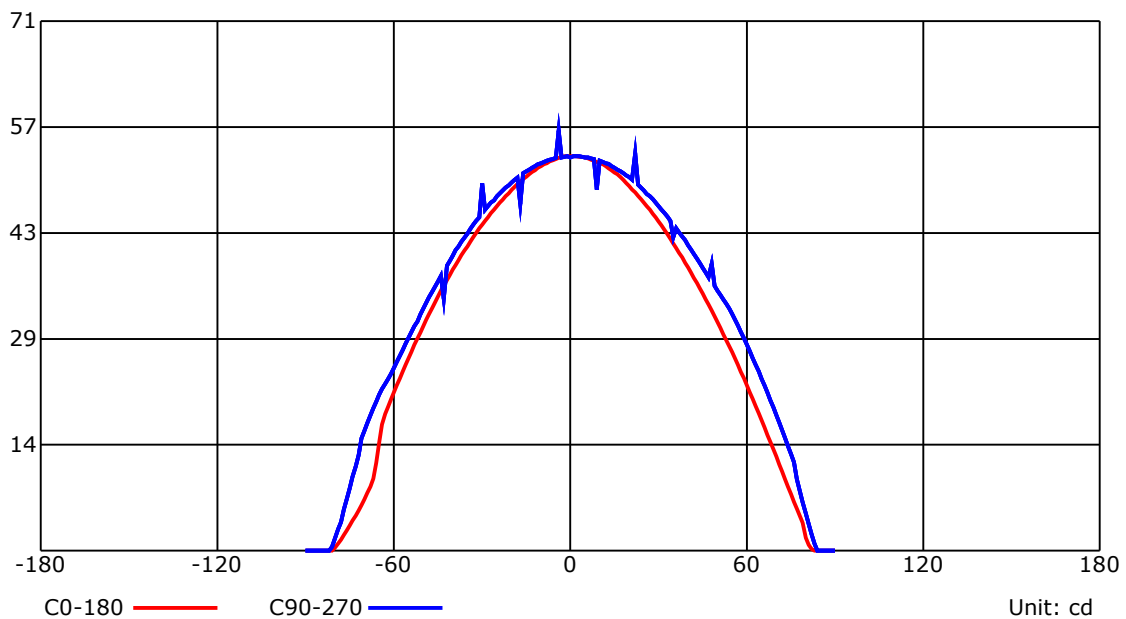
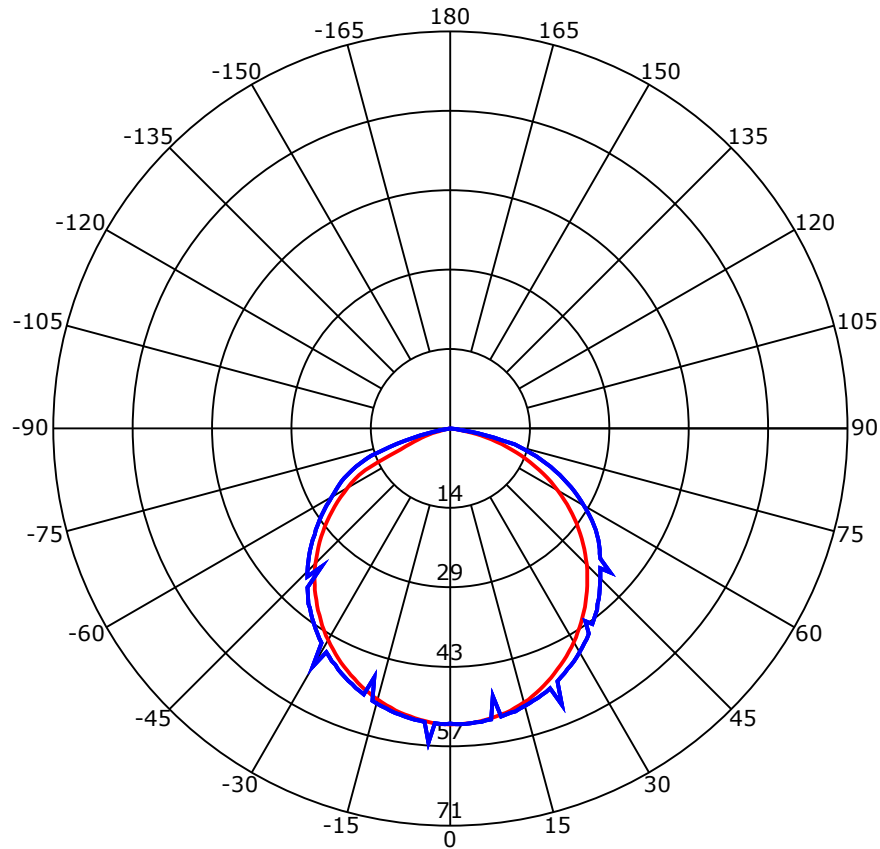
C Range: 0 - 360 Deg
C Interval: 30.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2022-06-20 14:24:54

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1800B Goniophotometer
Humidity:
Test Distance: 8.86 m
Remarks:

Report No.:

Test Time: 2022-06-20 14:24:54

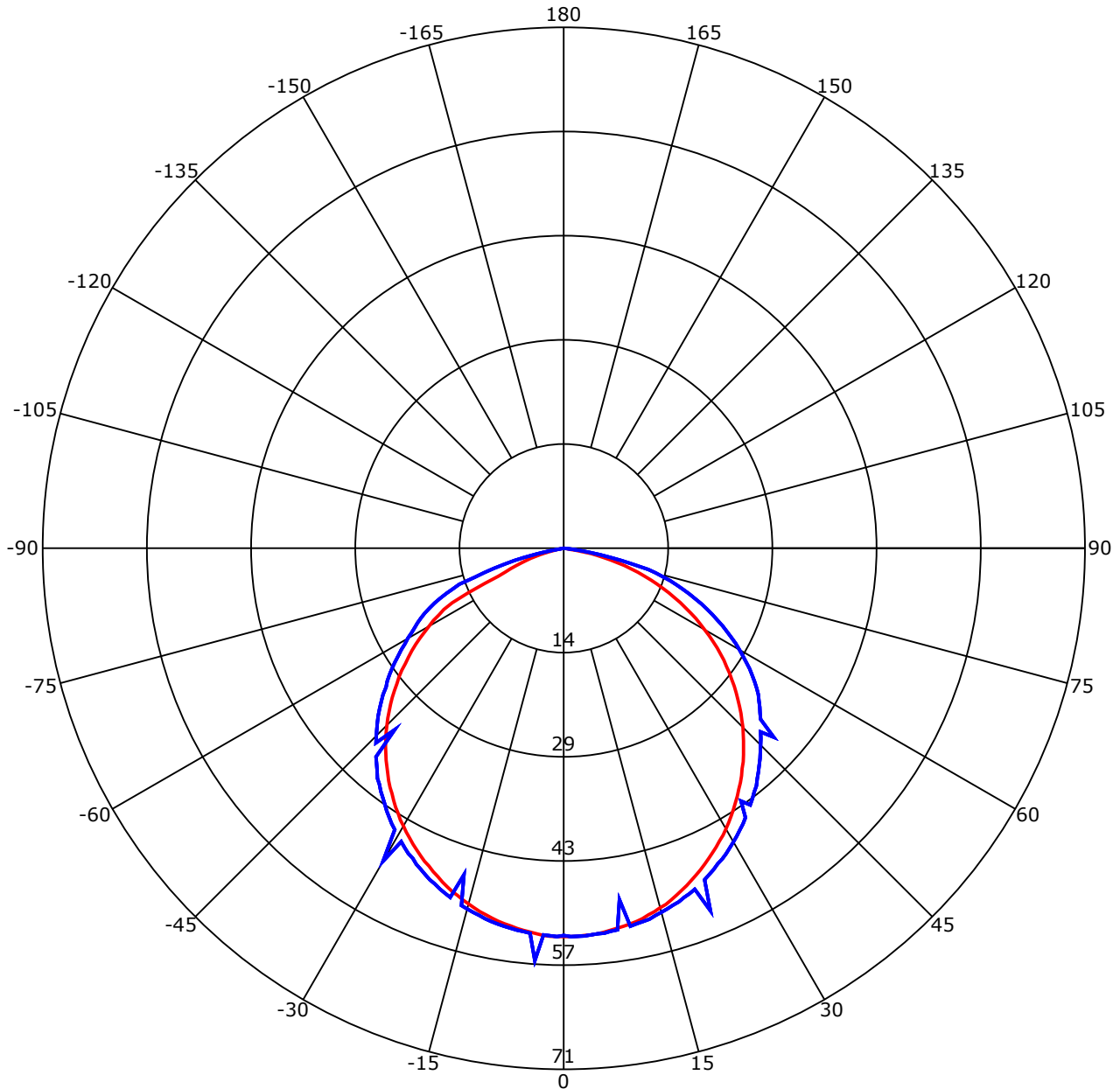
Luminous Intensity Distribution Curve



C Range: 0 - 360 Deg
C Interval: 30.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2022-06-20 14:24:54

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1800B Goniophotometer
Humidity:
Test Distance: 8.86 m
Remarks:

Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

C Range: 0 - 360 Deg

C Interval: 30.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2022-06-20 14:24:54

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity:

Test Distance: 8.86 m

Remarks:

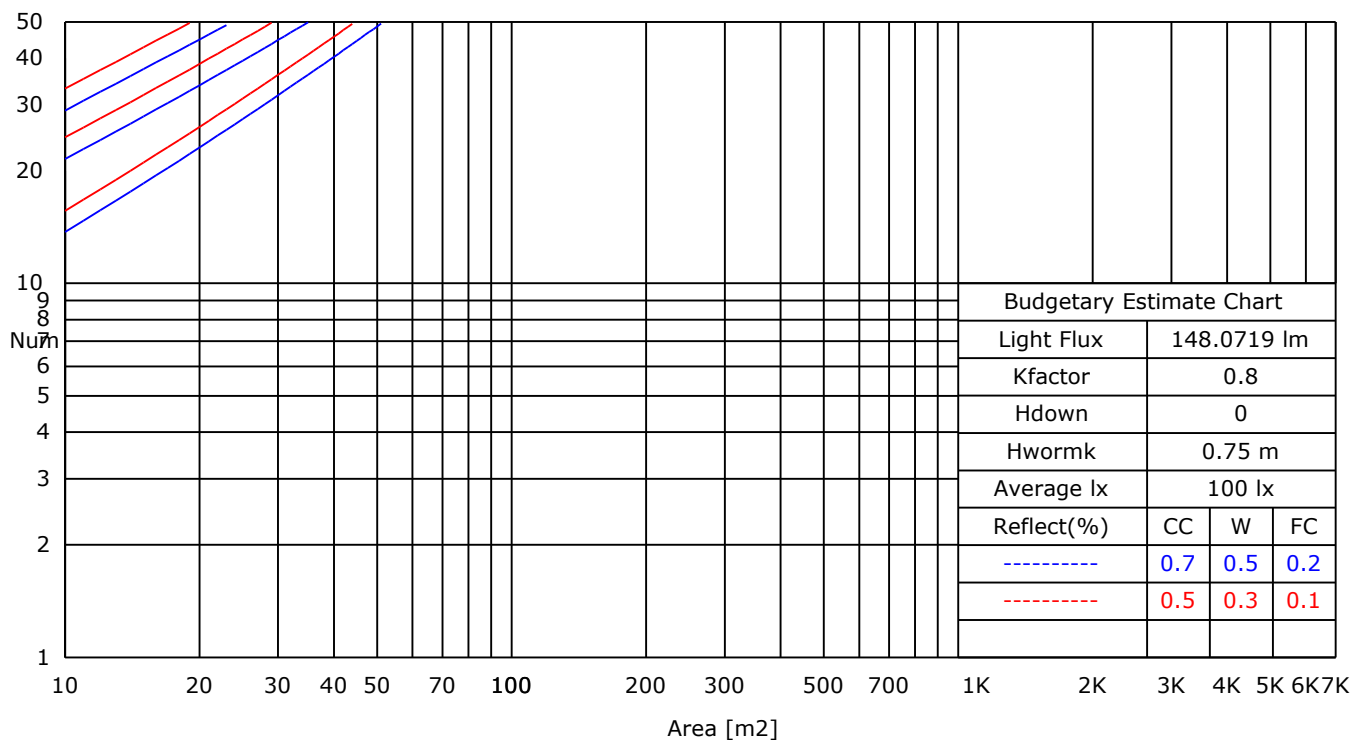
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UTILIZATION FACTORS TABLE

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	1.07	1.06	1.05	1.06	1.04	1.03	1.02	1.00	0.99	0.97	0.95	0.93	0.91	0.88	0.87	0.81
2	0.96	0.94	0.92	0.95	0.93	0.91	0.92	0.89	0.87	0.88	0.85	0.82	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	0.72	0.75	0.71	0.68	0.73	0.69	0.65	0.70	0.65	0.61	0.57
5	0.70	0.67	0.66	0.69	0.66	0.64	0.69	0.65	0.61	0.67	0.62	0.58	0.65	0.60	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	0.49	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

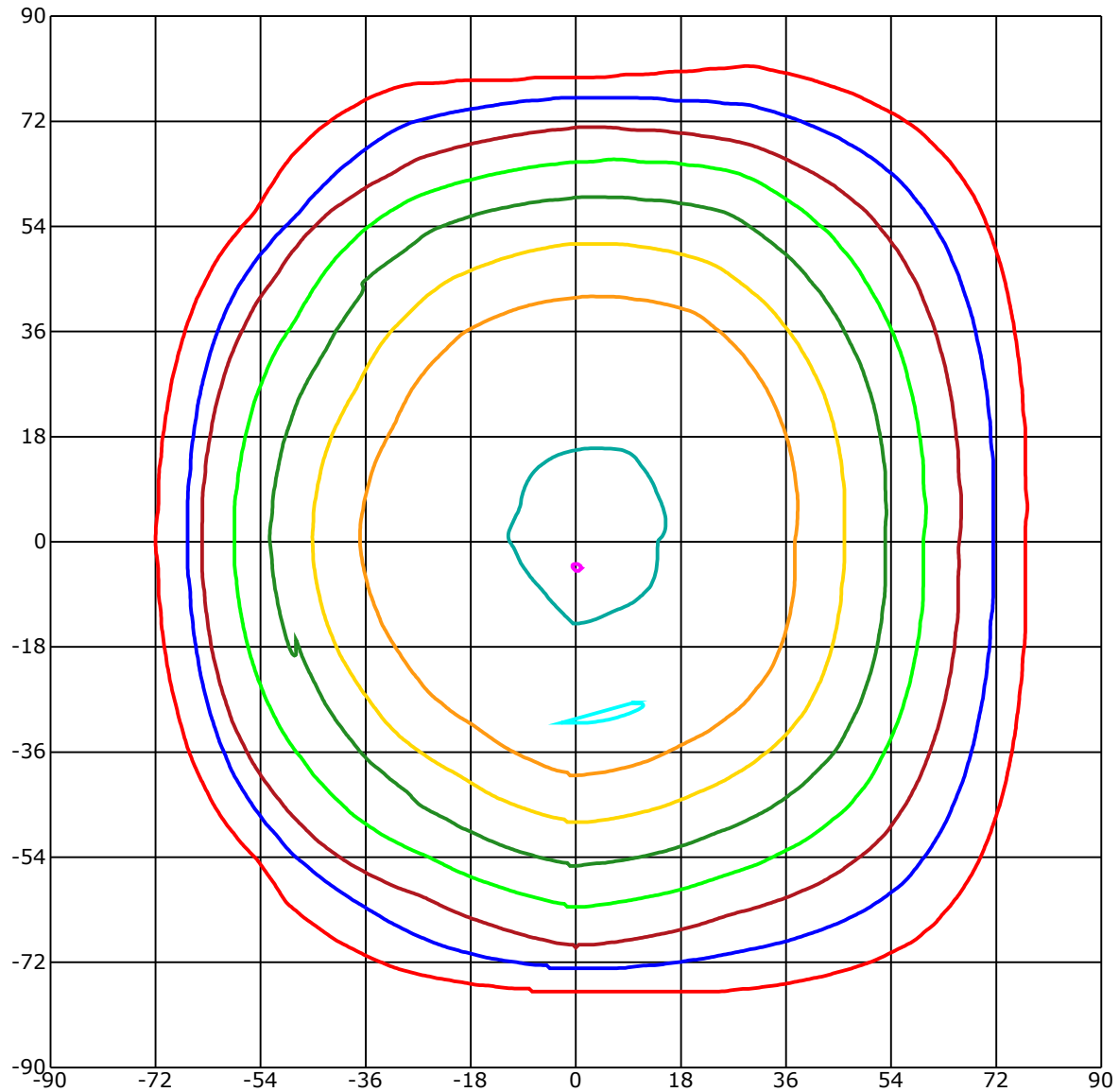
LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



C Range: 0 - 360 Deg
C Interval: 30.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2022-06-20 14:24:54

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1800B Goniophotometer
Humidity:
Test Distance: 8.86 m
Remarks:

ISOCANDELA DIAGRAM (RECTANGULAR)



Unit of intensity:cd I_{max}(100%): 57.148 cd

54.29(95%I _{max})	28.574(50%I _{max})
51.433(90%I _{max})	22.859(40%I _{max})
45.718(80%I _{max})	17.144(30%I _{max})
40.003(70%I _{max})	11.43(20%I _{max})
34.289(60%I _{max})	5.715(10%I _{max})

C Range: 0 - 360 Deg

C Interval: 30.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2022-06-20 14:24:54

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

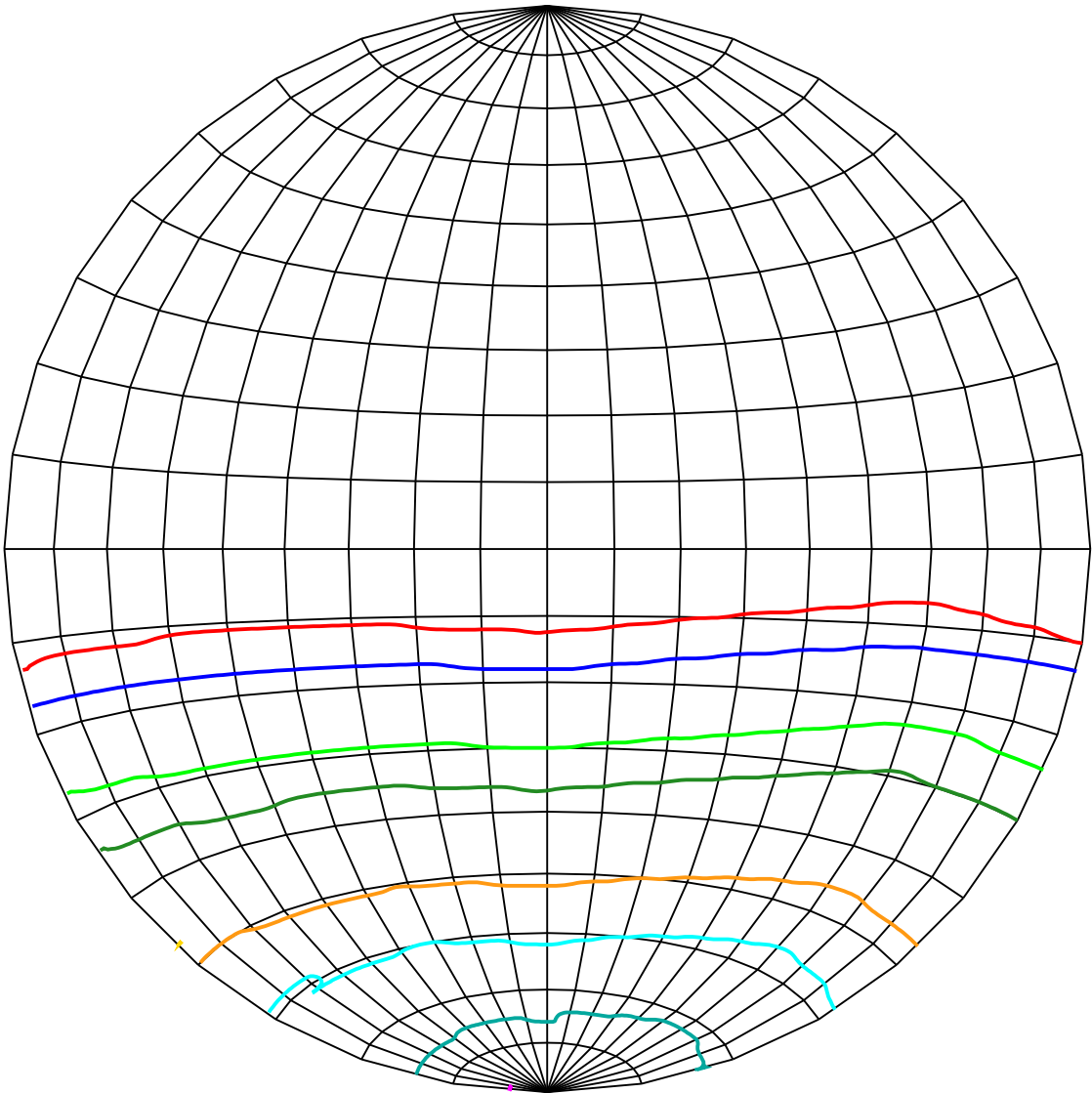
Test System: Huipu CPM-1800B Goniophotometer

Humidity:

Test Distance: 8.86 m

Remarks:

ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd Imax(100%): 57.148 cd

- 54.29(95%Imax)

28.574(50%Imax)
- 51.433(90%Imax)

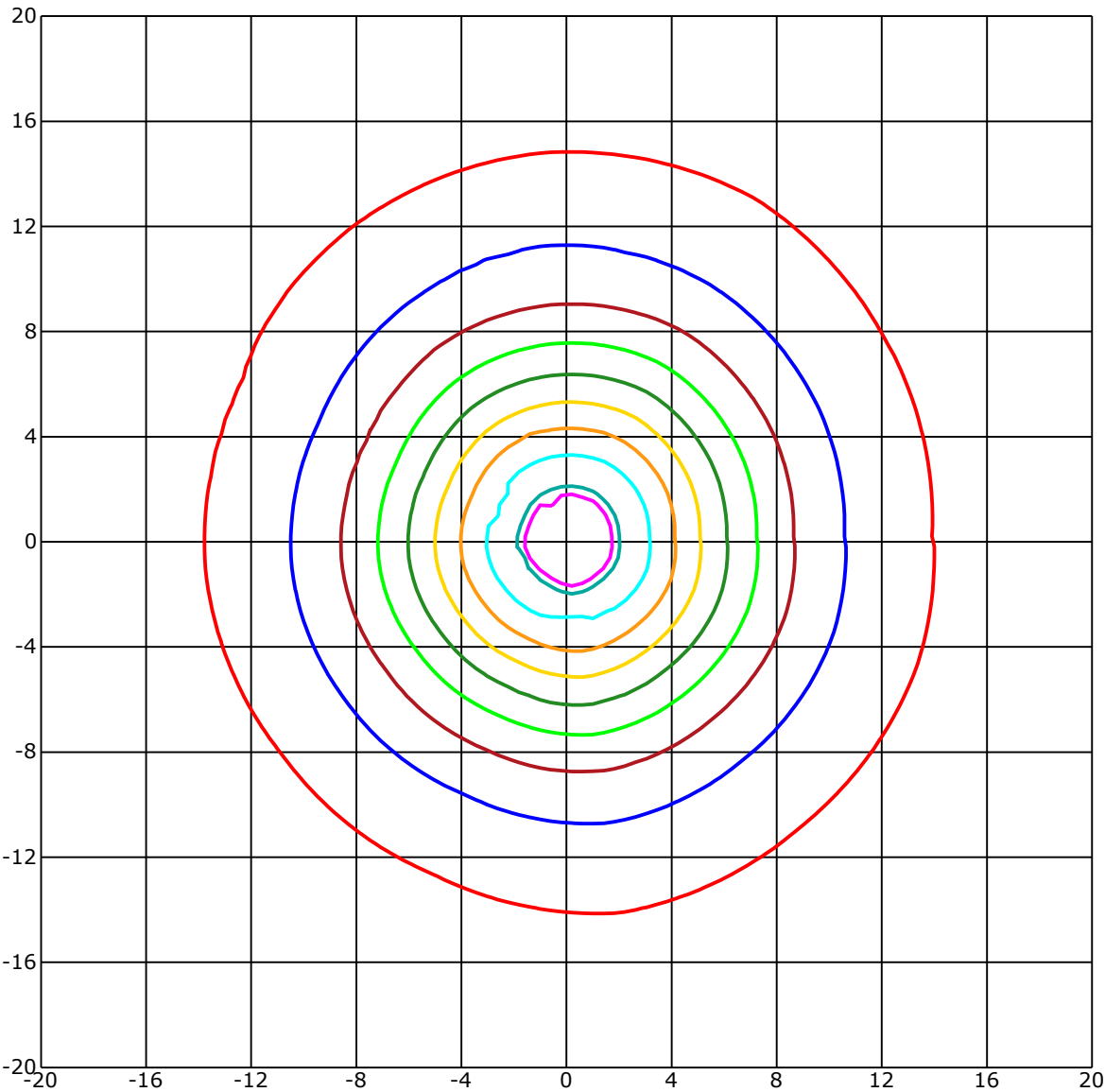
22.859(40%Imax)
- 45.718(80%Imax)

17.144(30%Imax)
- 40.003(70%Imax)

11.43(20%Imax)
- 34.289(60%Imax)

5.715(10%Imax)

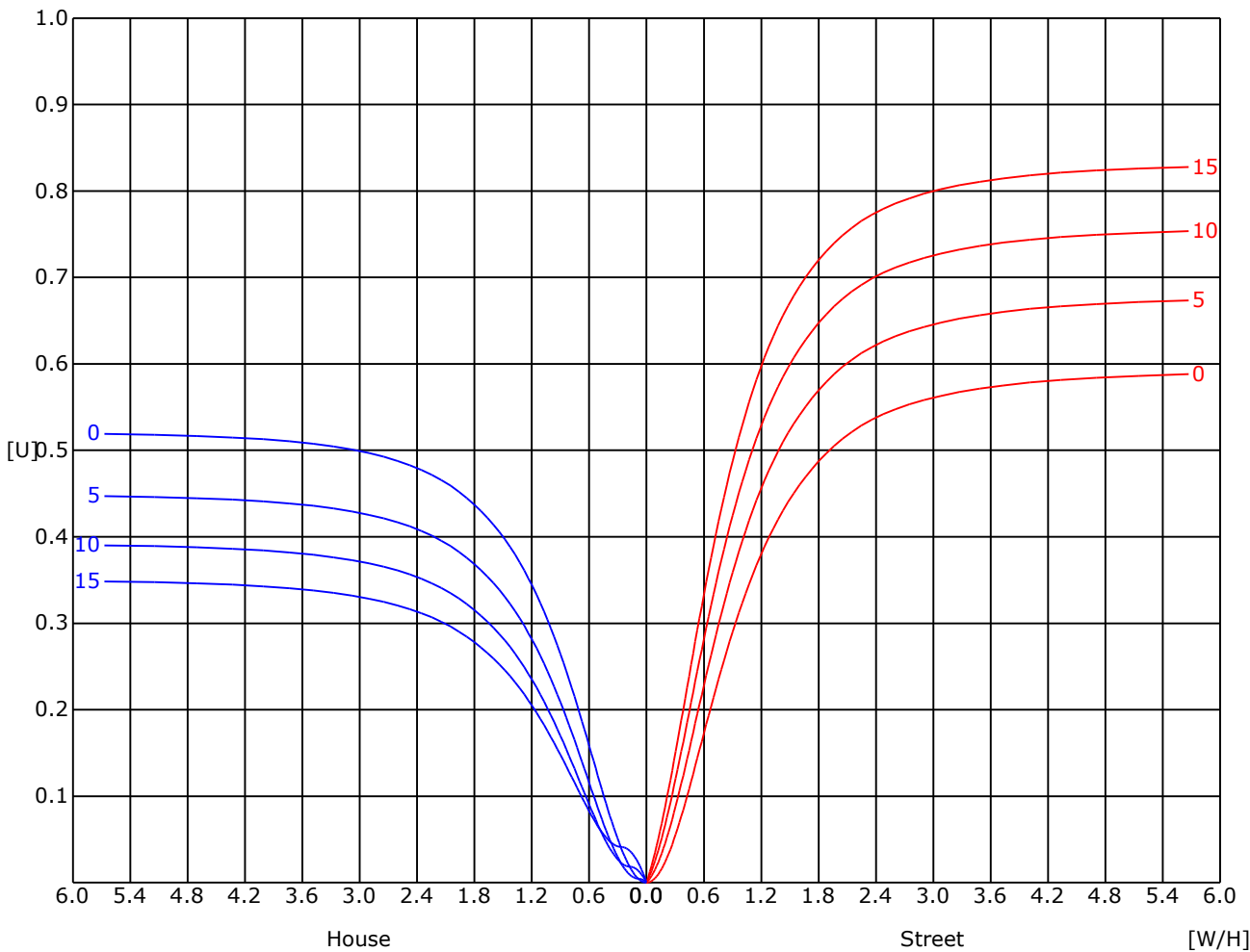
ISOLX DIAGRAM



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

- | | |
|---------------|---------------|
| 0.525(1%Emax) | 0.285(0%Emax) |
| 0.513(1%Emax) | 0.228(0%Emax) |
| 0.456(1%Emax) | 0.171(0%Emax) |
| 0.399(1%Emax) | 0.114(0%Emax) |
| 0.342(1%Emax) | 0.057(0%Emax) |

UTILIZATION FACTOR DIAGRAM (ROAD)

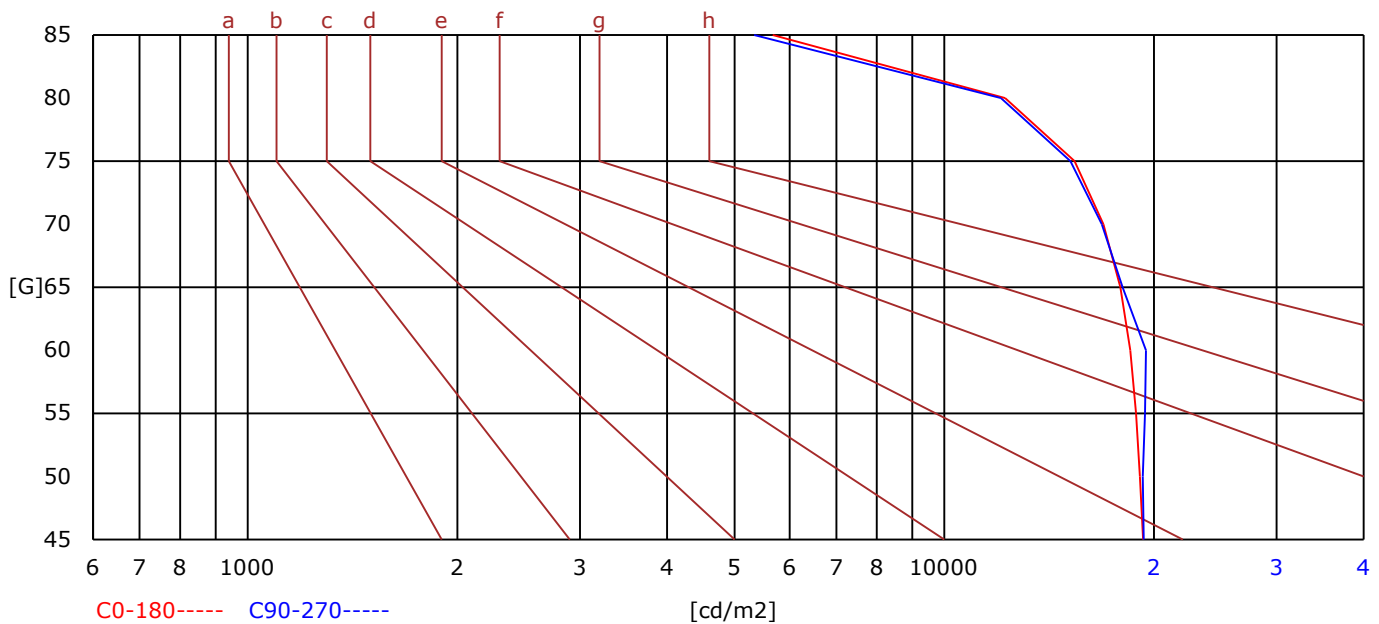


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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	19284	19087	18856	18491	17887	16916	15390	12222	5671
C90	19325	19268	19414	19480	18024	16831	15165	12055	5337
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



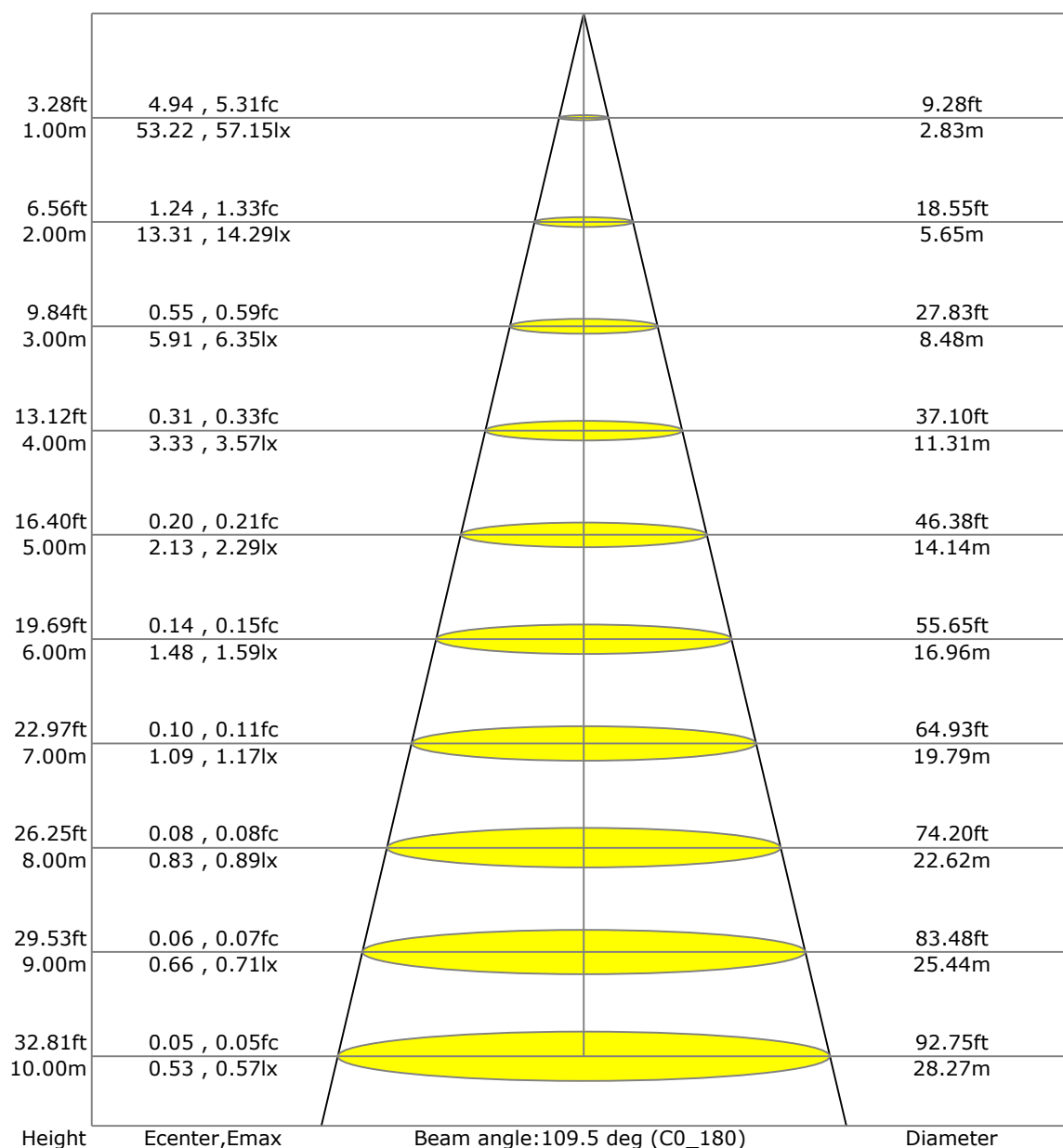
C Range: 0 - 360 Deg
C Interval: 30.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2022-06-20 14:24:54

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1800B Goniophotometer
Humidity:
Test Distance: 8.86 m
Remarks:

Report No.:

Test Time: 2022-06-20 14:24:54

LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg

C Interval: 30.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2022-06-20 14:24:54

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity:

Test Distance: 8.86 m

Remarks:

Report No.:

Test Time: 2022-06-20 14:24:54

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	28.14	28.21	28.34	28.40	28.65	28.75	28.83	28.95	29.01	29.26
3H	28.35	28.42	28.55	28.61	28.86	28.86	28.94	29.07	29.13	29.38
4H	28.38	28.45	28.59	28.65	28.90	28.87	28.94	29.08	29.14	29.38
6H	28.37	28.44	28.59	28.64	28.89	28.84	28.91	29.06	29.11	29.37
8H	28.35	28.42	28.57	28.62	28.88	28.83	28.90	29.05	29.10	29.35
12H	28.34	28.40	28.56	28.61	28.86	28.81	28.88	29.04	29.09	29.34
4H 2H	30.39	30.47	30.60	30.66	30.91	31.65	31.72	31.86	31.92	32.17
3H	30.78	30.85	31.00	31.05	31.31	31.93	31.99	32.15	32.20	32.46
4H	30.89	30.95	31.12	31.17	31.42	31.98	32.04	32.21	32.26	32.52
6H	30.93	30.99	31.17	31.21	31.48	31.98	32.03	32.21	32.26	32.52
8H	30.93	30.98	31.17	31.21	31.48	31.96	32.02	32.20	32.24	32.51
12H	30.91	30.96	31.16	31.19	31.46	31.94	31.99	32.19	32.22	32.49
8H 4H	30.63	30.70	30.85	30.91	31.16	32.14	32.21	32.36	32.41	32.66
6H	31.40	31.45	31.65	31.68	31.96	32.79	32.84	33.04	33.08	33.35
8H	31.42	31.47	31.69	31.72	31.99	32.79	32.83	33.05	33.08	33.36
12H	31.43	31.47	31.70	31.72	32.00	32.77	32.81	33.04	33.06	33.35
12H 4H	31.27	31.33	31.52	31.56	31.83	32.74	32.79	32.99	33.03	33.30
6H	31.40	31.44	31.66	31.69	31.97	32.86	32.90	33.12	33.15	33.43

C Range: 0 - 360 Deg

C Interval: 30.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2022-06-20 14:24:54

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity:

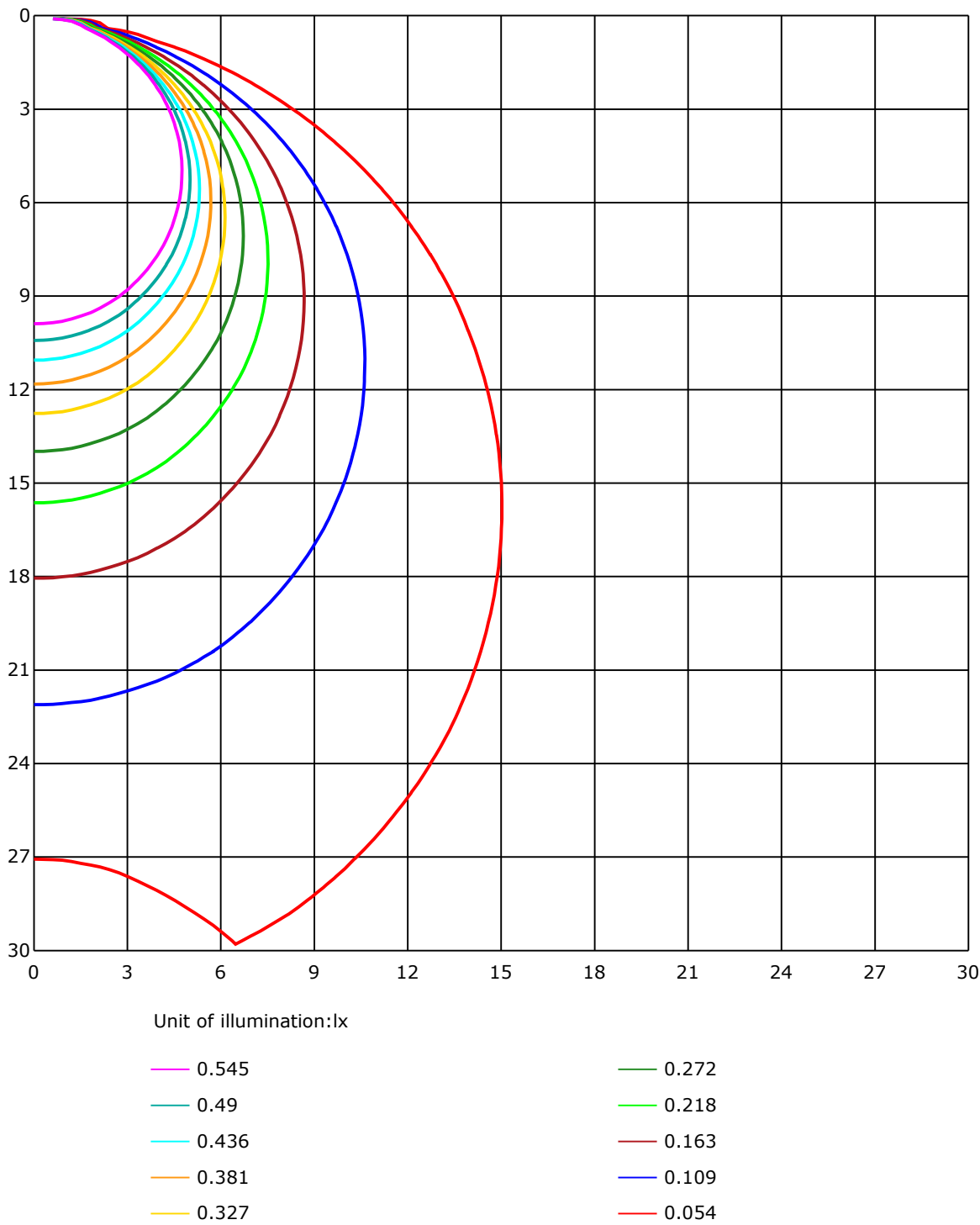
Test Distance: 8.86 m

Remarks:

[illegible]

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1800B Goniophotometer
Humidity:
Test Distance: 8.86 m
Remarks:

SPACE ISOLX DIAGRAM



Report No.:

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C30	C60	C90	C120	C150	C180	C210	C240	C270
G0	53.22	53.14	53.07	53.07	53.22	53.22	53.22	53.14	53.07	53.07
G1	53.22	53.22	53.14	53.22	53.22	53.22	53.22	53.07	52.99	53.22
G2	53.22	57.15	53.14	53.22	53.22	53.14	53.22	52.99	52.91	53.14
G3	53.14	53.14	53.22	53.22	53.22	53.07	53.14	52.83	52.83	53.07
G4	53.14	53.14	53.14	53.14	53.14	52.83	52.99	52.67	52.67	56.68
G5	53.07	53.14	53.14	53.07	53.07	52.67	52.83	52.44	52.52	52.99
G6	52.91	53.07	53.14	53.07	52.99	52.52	52.67	52.28	52.28	52.83
G7	52.75	52.99	53.07	52.91	52.83	52.2	52.52	52.2	52.12	52.75
G8	52.59	52.91	52.99	52.83	52.67	52.12	52.28	51.81	51.89	52.59
G9	52.44	52.75	52.91	48.75	52.52	51.89	52.12	51.57	51.65	52.44
G10	52.28	52.59	52.83	52.59	52.36	51.65	51.89	51.34	51.42	52.28
G11	52.12	52.44	52.67	52.44	52.2	51.42	51.65	47.34	51.18	52.12
G12	51.89	52.28	52.59	52.28	51.97	51.18	51.34	50.79	50.87	51.89
G13	51.57	52.12	52.44	52.2	51.73	50.87	51.1	50.48	50.55	51.65
G14	51.34	51.89	52.28	51.89	51.5	50.55	50.79	50.16	50.32	51.42
G15	51.02	54.56	52.05	51.65	51.26	50.24	50.48	49.85	49.93	51.18
G16	50.79	51.42	51.89	51.42	51.02	47.49	50.16	49.45	49.61	50.95
G17	50.4	51.18	51.65	51.18	50.79	49.61	49.77	49.14	49.22	46.79
G18	50.0	50.87	51.42	50.95	50.48	49.22	49.45	48.75	48.91	50.32
G19	49.61	50.63	51.18	50.63	50.16	48.83	49.06	48.28	48.51	50.0
G20	49.22	50.24	50.87	50.4	49.85	48.51	48.67	47.81	48.12	49.69
G21	48.75	49.93	50.55	50.08	49.45	48.04	48.2	47.41	47.65	49.3
G22	48.36	49.61	50.24	53.62	49.14	47.57	47.81	47.02	47.26	48.98
G23	47.88	49.22	49.93	49.38	48.75	47.1	47.34	46.55	46.79	48.59
G24	47.41	48.75	49.61	48.98	48.36	46.71	46.94	50.0	46.31	48.2
G25	46.94	48.28	49.22	48.59	47.96	46.24	46.47	45.61	45.84	47.81
G26	46.47	47.88	48.91	48.12	47.57	45.77	46.0	45.14	45.37	47.26
G27	46.0	47.41	48.51	47.81	47.1	45.29	45.53	44.59	44.9	46.94
G28	45.45	46.94	48.12	47.41	46.63	44.74	44.98	44.12	44.35	46.47
G29	44.98	46.47	47.73	46.94	46.24	47.57	44.51	43.49	43.8	46.0
G30	44.43	46.0	47.26	46.47	45.69	43.72	43.96	42.94	43.25	49.53
G31	43.88	45.45	46.86	46.0	45.22	43.1	43.49	42.39	42.7	44.98
G32	43.25	44.98	46.39	45.53	44.74	42.55	42.86	41.84	42.08	44.51
G33	42.7	44.43	45.92	45.06	44.2	41.92	42.31	41.37	41.53	43.96
G34	42.08	43.88	45.37	44.51	43.65	41.37	41.68	40.58	40.9	43.41
G35	41.45	43.25	44.9	42.31	43.1	40.82	41.06	40.03	40.27	42.78
G36	40.82	42.7	44.35	43.49	42.47	40.19	40.51	39.33	39.64	42.23

C Range: 0 - 360 Deg

C Interval: 30.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2022-06-20 14:24:54

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity:

Test Distance: 8.86 m

Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C30	C60	C90	C120	C150	C180	C210	C240	C270
G37	40.19	42.08	43.8	42.94	41.92	39.56	39.88	38.7	39.01	41.68
G38	39.56	41.53	43.25	42.39	41.29	38.94	39.17	38.07	38.31	41.06
G39	38.86	40.9	42.7	41.92	40.74	38.23	38.54	37.37	37.68	40.58
G40	38.23	40.19	42.15	41.21	40.11	37.6	37.92	36.66	36.97	39.8
G41	37.52	39.56	41.53	40.66	39.49	36.89	37.21	36.03	36.27	39.09
G42	36.82	38.94	40.98	40.03	38.86	33.52	36.5	35.25	35.56	38.46
G43	36.11	38.23	40.35	39.41	38.23	35.48	35.8	34.54	34.85	33.99
G44	35.4	37.52	39.72	38.78	37.6	34.78	35.09	33.83	34.07	37.05
G45	34.7	36.82	39.09	38.15	36.89	33.99	34.3	33.05	33.36	36.35
G46	33.91	36.11	38.39	37.52	36.27	33.28	33.52	32.5	32.58	35.64
G47	33.21	35.4	37.76	36.89	35.56	32.5	32.73	31.48	31.79	34.93
G48	32.42	34.7	37.05	38.7	34.85	31.71	31.95	30.69	31.01	34.23
G49	31.64	33.91	36.35	35.72	34.15	30.85	31.16	29.83	30.22	33.44
G50	30.85	33.13	35.64	35.09	33.44	30.07	30.3	26.14	29.44	32.66
G51	30.07	32.42	34.93	34.54	32.73	29.28	29.44	28.18	28.57	31.87
G52	29.2	31.64	34.23	33.91	32.03	28.42	28.65	27.32	27.71	30.93
G53	28.42	30.85	33.52	33.36	31.32	27.55	27.79	26.38	26.93	30.3
G54	27.55	29.99	32.81	32.66	30.69	26.69	26.85	25.51	26.06	29.52
G55	26.77	29.2	32.18	31.95	30.07	27.55	25.98	24.65	25.2	28.73
G56	25.9	28.42	31.56	31.16	29.36	24.88	25.12	23.71	24.33	27.95
G57	25.04	27.55	30.93	30.38	28.73	23.94	24.18	22.76	23.47	27.08
G58	24.1	26.69	30.22	29.52	28.02	23.0	23.24	21.82	22.61	26.3
G59	23.24	25.83	29.52	28.65	27.24	22.06	22.29	20.96	21.74	25.43
G60	22.29	24.96	28.81	27.79	26.3	21.12	21.35	19.94	20.8	24.65
G61	21.35	24.02	28.02	26.93	25.36	20.17	20.41	19.0	19.94	23.86
G62	20.49	23.16	27.16	25.98	24.18	19.23	19.39	18.05	18.92	23.16
G63	19.55	22.29	26.3	25.12	22.92	18.21	18.45	17.03	17.98	22.53
G64	18.53	21.35	25.43	24.18	21.74	17.19	17.03	16.01	16.96	21.82
G65	17.58	20.41	24.49	23.16	20.57	16.17	14.52	14.29	16.01	21.04
G66	16.64	19.47	23.55	22.29	19.55	15.15	11.85	12.01	15.07	20.1
G67	15.62	18.53	22.45	21.35	18.53	13.03	9.73	9.81	14.05	19.23
G68	14.68	17.58	21.19	20.33	17.58	9.26	8.63	8.01	13.03	18.29
G69	13.66	16.64	19.86	19.31	16.56	8.32	7.77	6.83	12.09	17.19
G70	12.72	15.62	18.6	18.29	15.54	7.06	6.91	5.81	11.15	16.17
G71	11.62	14.68	17.43	17.27	14.6	6.04	6.12	4.95	10.13	15.15
G72	10.68	13.74	16.33	16.25	13.58	5.1	5.42	4.71	9.18	12.87
G73	9.66	12.72	15.39	15.23	12.56	4.32	4.71	3.69	8.16	11.38

C Range: 0 - 360 Deg

C Interval: 30.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2022-06-20 14:24:54

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity:

Test Distance: 8.86 m

Remarks:

C Range: 0 - 360 Deg
C Interval: 30.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2022-06-20 14:24:54

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1800B Goniophotometer
Humidity:
Test Distance: 8.86 m
Remarks:

Report No.:

Test Time: 2022-06-20 14:24:54

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 3)

Gamma\C	C300	C330	C360							
G0	53.22	53.22	53.22							
G1	53.14	53.22	53.22							
G2	53.14	53.22	53.22							
G3	53.07	53.22	53.14							
G4	52.99	53.14	53.14							
G5	52.91	53.07	53.07							
G6	52.75	53.07	52.91							
G7	52.67	52.91	52.75							
G8	52.52	52.83	52.59							
G9	52.36	52.67	52.44							
G10	52.12	52.52	52.28							
G11	51.97	52.28	52.12							
G12	51.73	52.12	51.89							
G13	51.5	51.89	51.57							
G14	51.26	51.65	51.34							
G15	50.95	51.42	51.02							
G16	50.63	51.18	50.79							
G17	50.4	50.87	50.4							
G18	50.0	50.55	50.0							
G19	49.69	50.24	49.61							
G20	49.38	49.93	49.22							
G21	48.98	49.53	48.75							
G22	48.59	49.14	48.36							
G23	48.2	48.67	47.88							
G24	47.81	48.2	47.41							
G25	47.34	47.81	46.94							
G26	46.94	47.34	46.47							
G27	46.47	46.86	46.0							
G28	46.0	46.39	45.45							
G29	45.45	45.84	44.98							
G30	44.98	45.37	44.43							
G31	44.43	44.82	43.88							
G32	43.96	44.27	43.25							
G33	43.33	43.72	42.7							
G34	42.78	43.1	42.08							
G35	42.23	42.55	41.45							
G36	41.6	41.92	40.82							

C Range: 0 - 360 Deg

C Interval: 30.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2022-06-20 14:24:54

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity:

Test Distance: 8.86 m

Remarks:

Report No.:

Test Time: 2022-06-20 14:24:54

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 4)

Gamma\C	C300	C330	C360							
G37	40.98	41.29	40.19							
G38	40.35	40.66	39.56							
G39	39.72	40.03	38.86							
G40	39.01	39.41	38.23							
G41	38.31	38.7	37.52							
G42	37.6	38.07	36.82							
G43	36.89	37.37	36.11							
G44	36.19	36.66	35.4							
G45	35.48	35.95	34.7							
G46	34.78	35.17	33.91							
G47	33.99	34.46	33.21							
G48	33.21	33.68	32.42							
G49	32.42	32.89	31.64							
G50	31.64	32.11	30.85							
G51	30.85	31.32	30.07							
G52	29.99	30.54	29.2							
G53	29.2	29.75	28.42							
G54	28.34	28.97	27.55							
G55	27.47	28.1	26.77							
G56	26.61	27.24	25.9							
G57	25.83	26.38	25.04							
G58	24.96	25.51	24.1							
G59	24.1	24.65	23.24							
G60	23.24	23.79	22.29							
G61	22.37	22.84	21.35							
G62	21.43	21.98	20.49							
G63	20.57	21.04	19.55							
G64	19.62	20.1	18.53							
G65	18.6	19.15	17.58							
G66	17.66	18.21	16.64							
G67	16.64	17.27	15.62							
G68	15.62	16.25	14.68							
G69	14.68	15.31	13.66							
G70	13.74	14.29	12.72							
G71	12.72	13.34	11.62							
G72	11.77	12.32	10.68							
G73	10.75	11.3	9.66							

C Range: 0 - 360 Deg

C Interval: 30.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2022-06-20 14:24:54

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity:

Test Distance: 8.86 m

Remarks:

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1800B Goniophotometer
Humidity:
Test Distance: 8.86 m
Remarks: