

Report No.:

Test Time: 2022-06-20 15:39:59

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: rayhil
Luminaire Type: Que10-6-40-36-BK
Lamp Type:
Luminous Width: 9 mm
Luminous Length: 300 mm
Luminous Height: 8 mm

Voltage(V): 48.00 V
Current(A): 0.2040 A
Power(W): 9.79 W
Power Factor: 1.0000
Lamp Luminous Flux: 478.53

Photometric Results

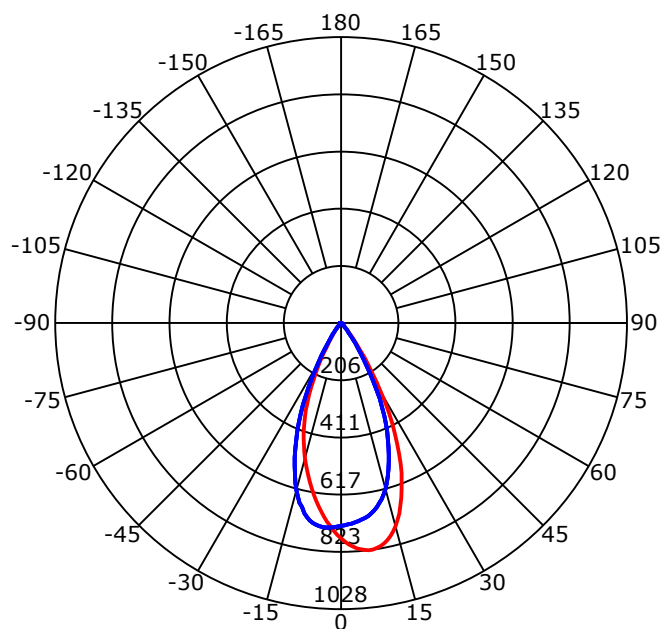
CIE Class: Direct
Luminaire Luminous Flux: 478.5273 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 48.88 lm/W
Beam Angle(50%) C0-180,C90-270: 45.9,48.6
Field Angle(10%) C0-180,C90-270: 69.5,70.4
S/MH C0-180,C90-270: 0.768,0.768

Max. Intensity: 822.68 cd
Max.Intensity Angle: C=0 Gamma=7
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 774.87 cd
Effective Luminous Flux: 443.24 lm
ERP(ϕ use)(120deg): 476.51 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 45.9 deg,48.6 deg

C0-180 — C90-270 —

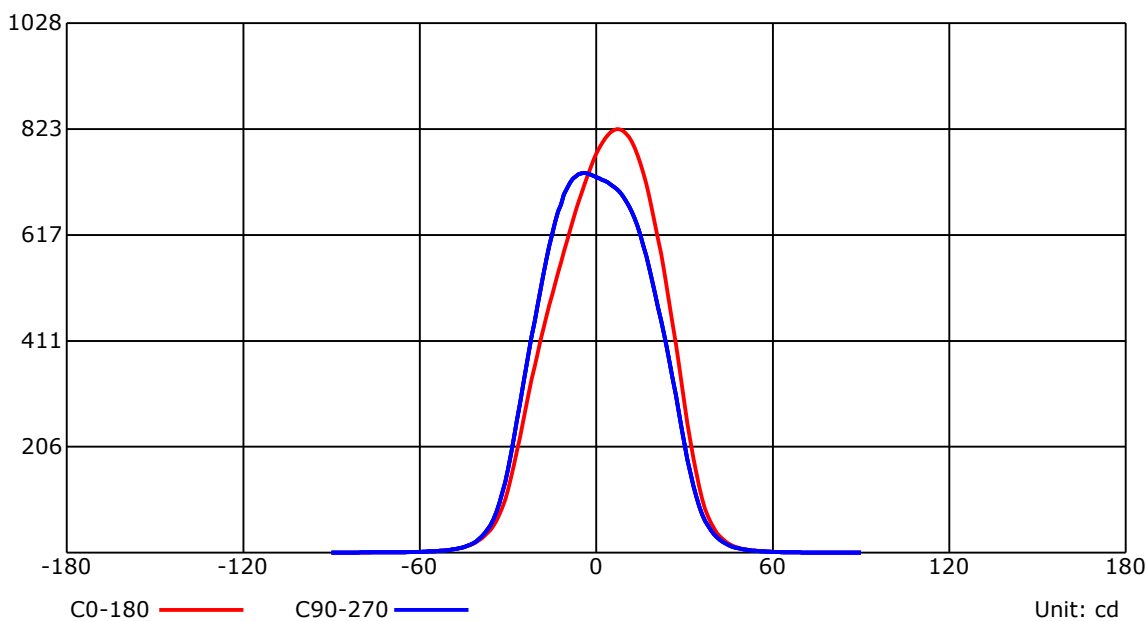
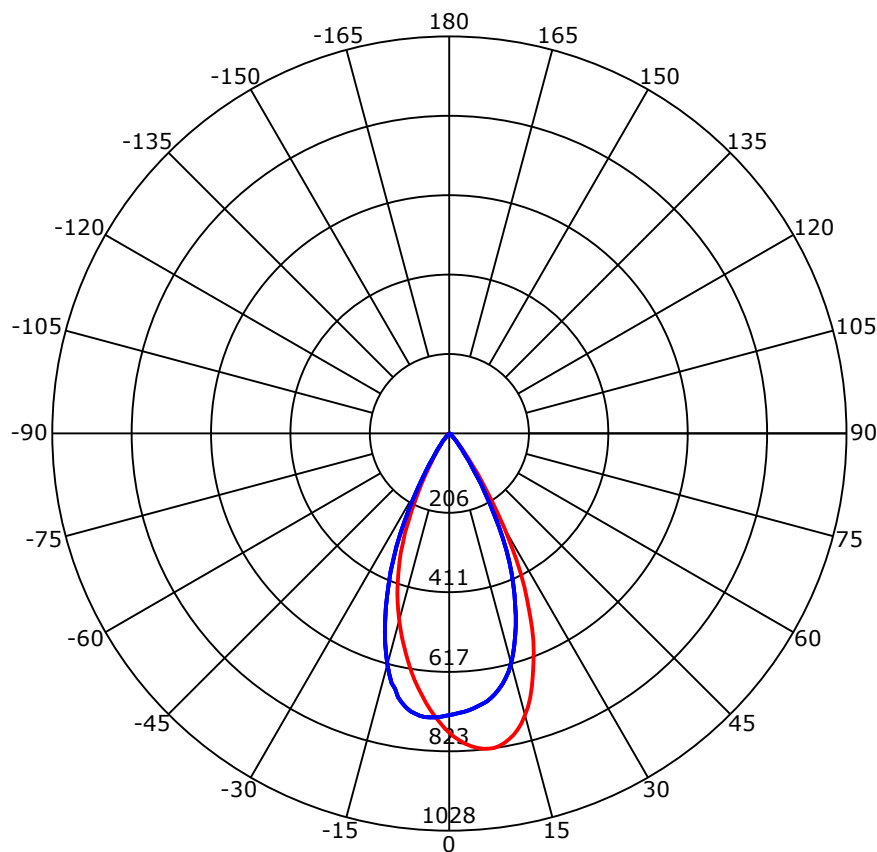
C Range: 0 - 360 Deg
C Interval: 30.0 Deg
Test Speed: High
Temperature: 30
Operators:
Test Date: 2022-06-20 15:39:59

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1800B Goniophotometer
Humidity: 72
Test Distance: 8.86 m
Remarks:

Report No.:

Test Time: 2022-06-20 15:39:59

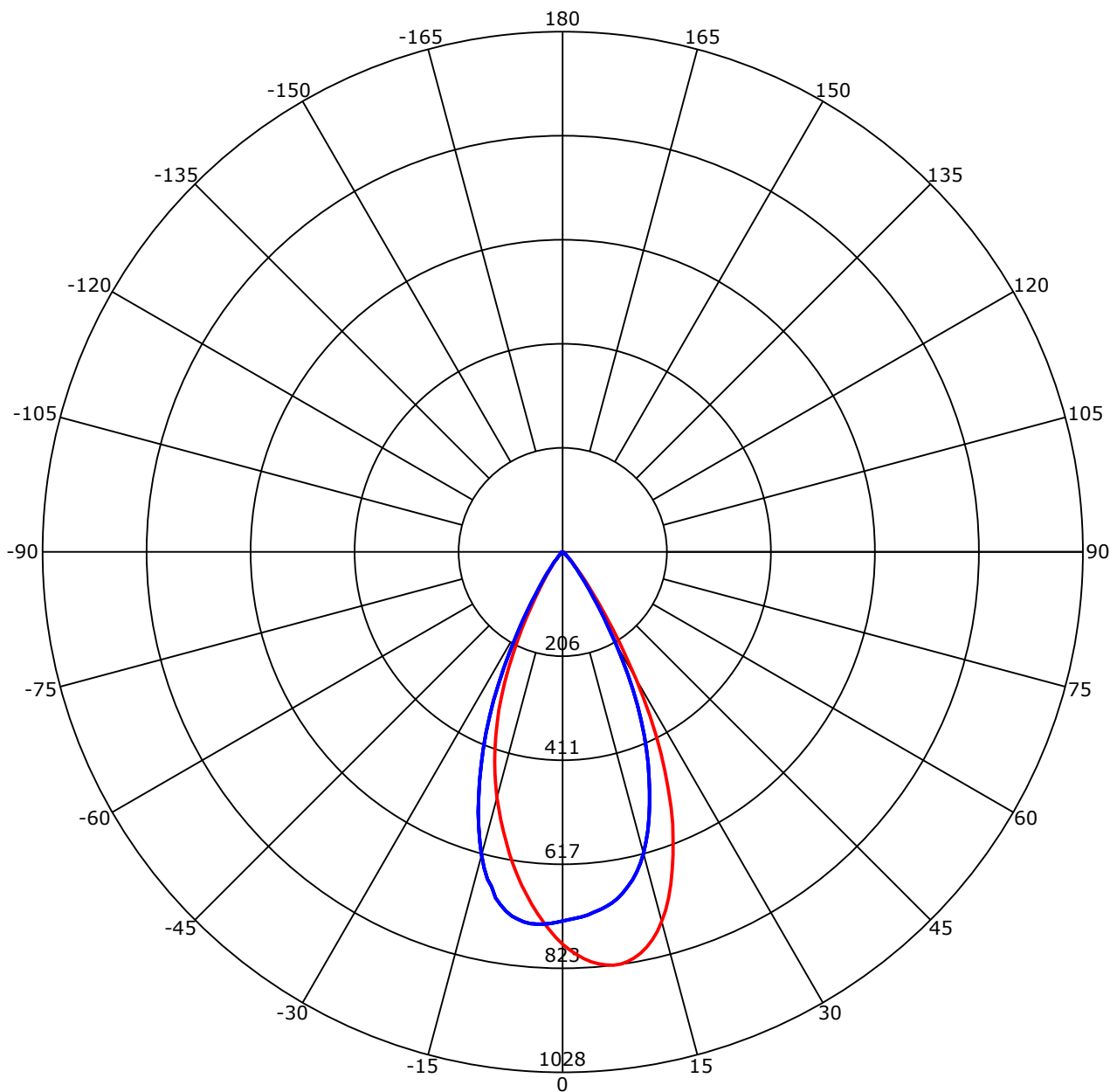
Luminous Intensity Distribution Curve



C Range: 0 - 360 Deg
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Temperature: 30
Operators:
Test Date: 2022-06-20 15:39:59

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Luminous Intensity Distribution Curve



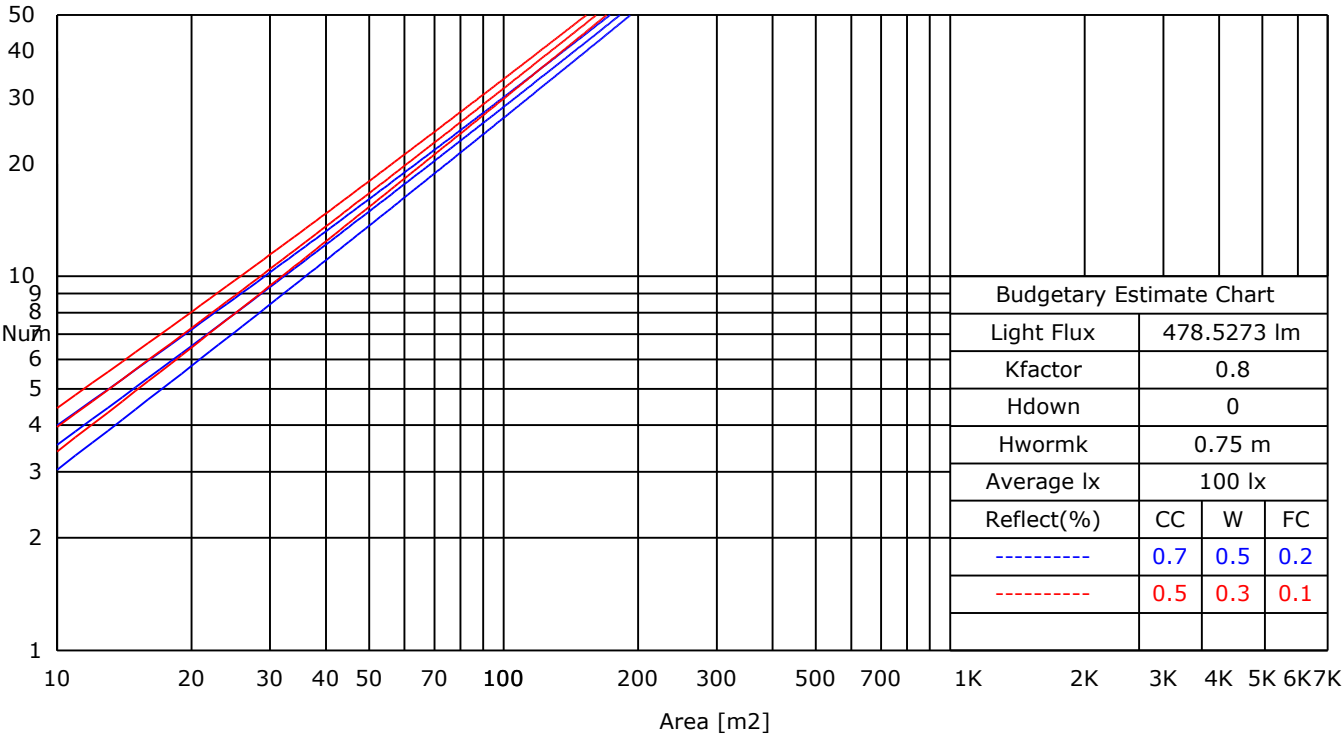
C0-180 — C90-270

Unit: cd/klm

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	COEFFCIENTS 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	1.04	1.02	1.00	1.02	1.00	0.98	0.99	0.96	0.94	0.94	0.92	0.89	0.88	0.85	0.83	0.78
2	1.00	0.98	0.97	0.98	0.96	0.95	0.95	0.93	0.91	0.91	0.88	0.86	0.86	0.83	0.80	0.75
3	0.96	0.95	0.93	0.95	0.93	0.91	0.92	0.89	0.87	0.88	0.85	0.83	0.84	0.80	0.78	0.73
4	0.93	0.92	0.91	0.92	0.90	0.89	0.89	0.87	0.84	0.86	0.83	0.80	0.82	0.78	0.75	0.71
5	0.90	0.89	0.88	0.89	0.87	0.86	0.87	0.84	0.82	0.84	0.80	0.78	0.80	0.76	0.73	0.69
6	0.88	0.86	0.86	0.87	0.85	0.84	0.84	0.81	0.80	0.81	0.78	0.75	0.78	0.74	0.71	0.67
7	0.85	0.84	0.83	0.84	0.83	0.81	0.82	0.79	0.77	0.79	0.76	0.73	0.76	0.72	0.69	0.65
8	0.83	0.82	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	0.64
9	0.81	0.80	0.79	0.80	0.78	0.77	0.78	0.75	0.74	0.75	0.72	0.70	0.73	0.69	0.66	0.62
10	0.79	0.78	0.77	0.78	0.77	0.76	0.76	0.73	0.72	0.74	0.70	0.68	0.71	0.67	0.64	0.61

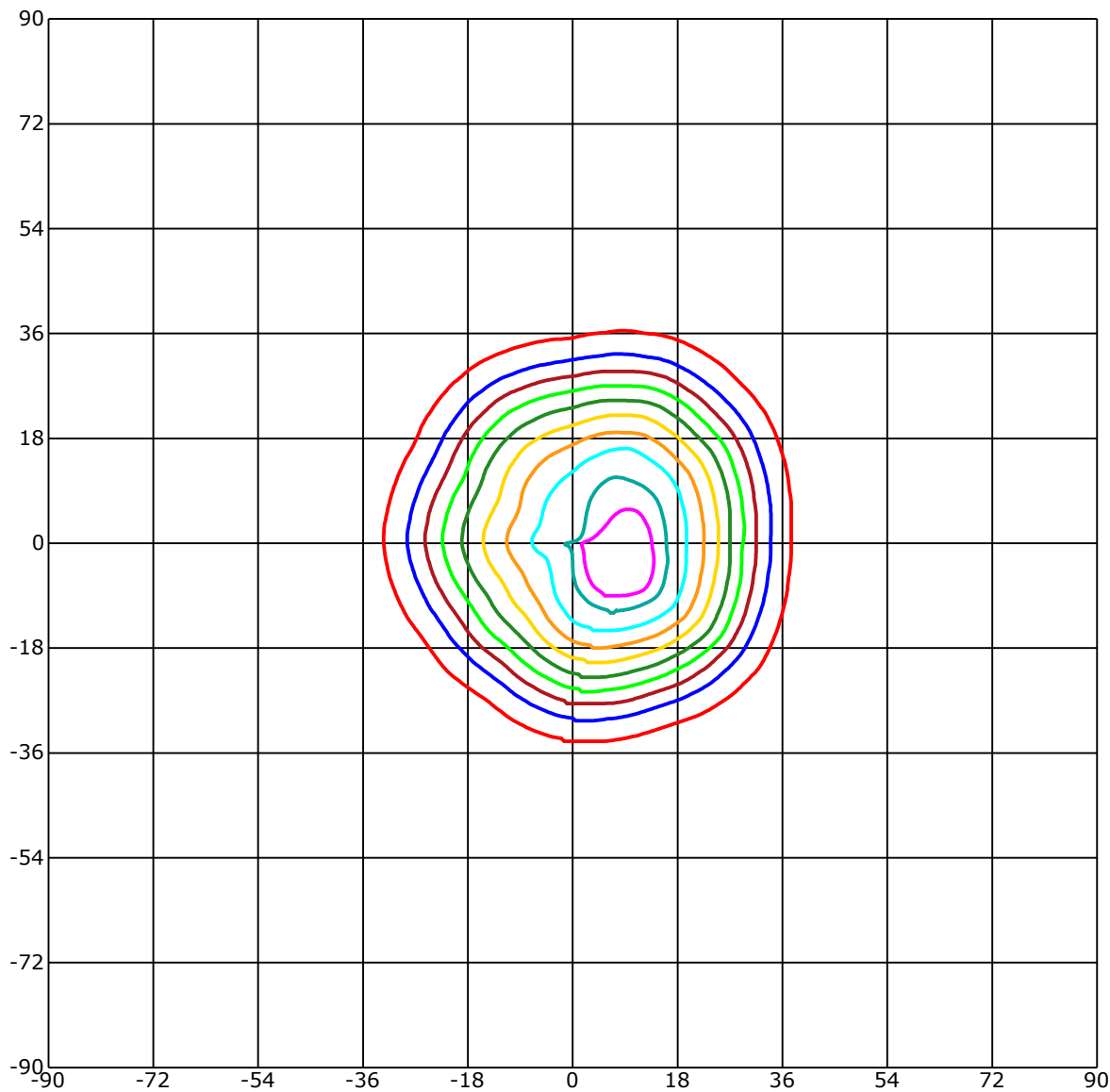
LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



Report No.:

Test Time: 2022-06-20 15:39:59

ISOCANDELA DIAGRAM (RECTANGULAR)



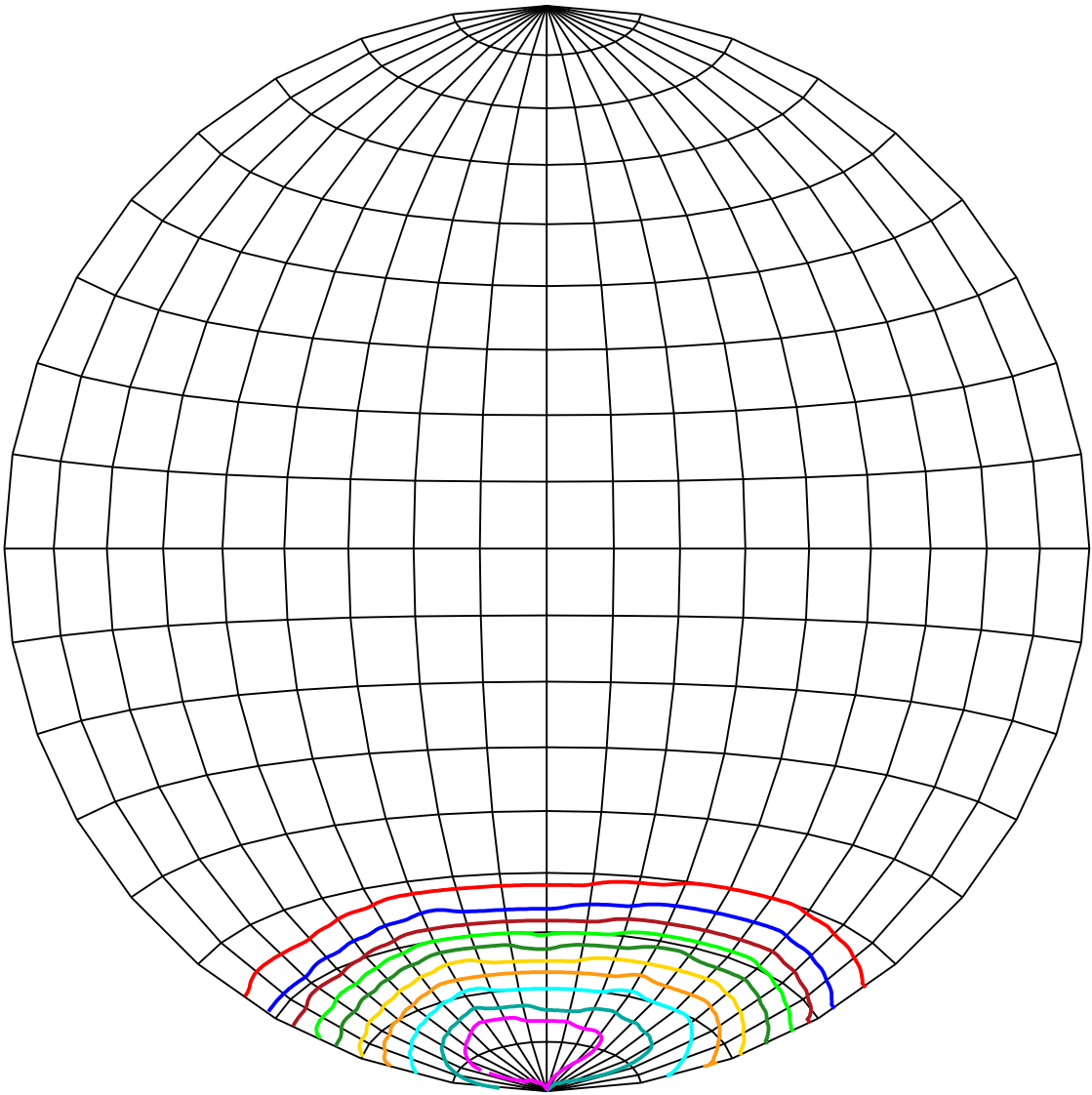
Unit of intensity:cd Imax(100%): 822.676 cd

- | | |
|------------------|------------------|
| 781.542(95%Imax) | 411.338(50%Imax) |
| 740.408(90%Imax) | 329.07(40%Imax) |
| 658.141(80%Imax) | 246.803(30%Imax) |
| 575.873(70%Imax) | 164.535(20%Imax) |
| 493.605(60%Imax) | 82.268(10%Imax) |

C Range: 0 - 360 Deg
C Interval: 30.0 Deg
Test Speed: High
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Operators:
Test Date: 2022-06-20 15:39:59

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1800B Goniophotometer
Humidity: 72
Test Distance: 8.86 m
Remarks:

ISOCANDELA DIAGRAM (SPHERE)



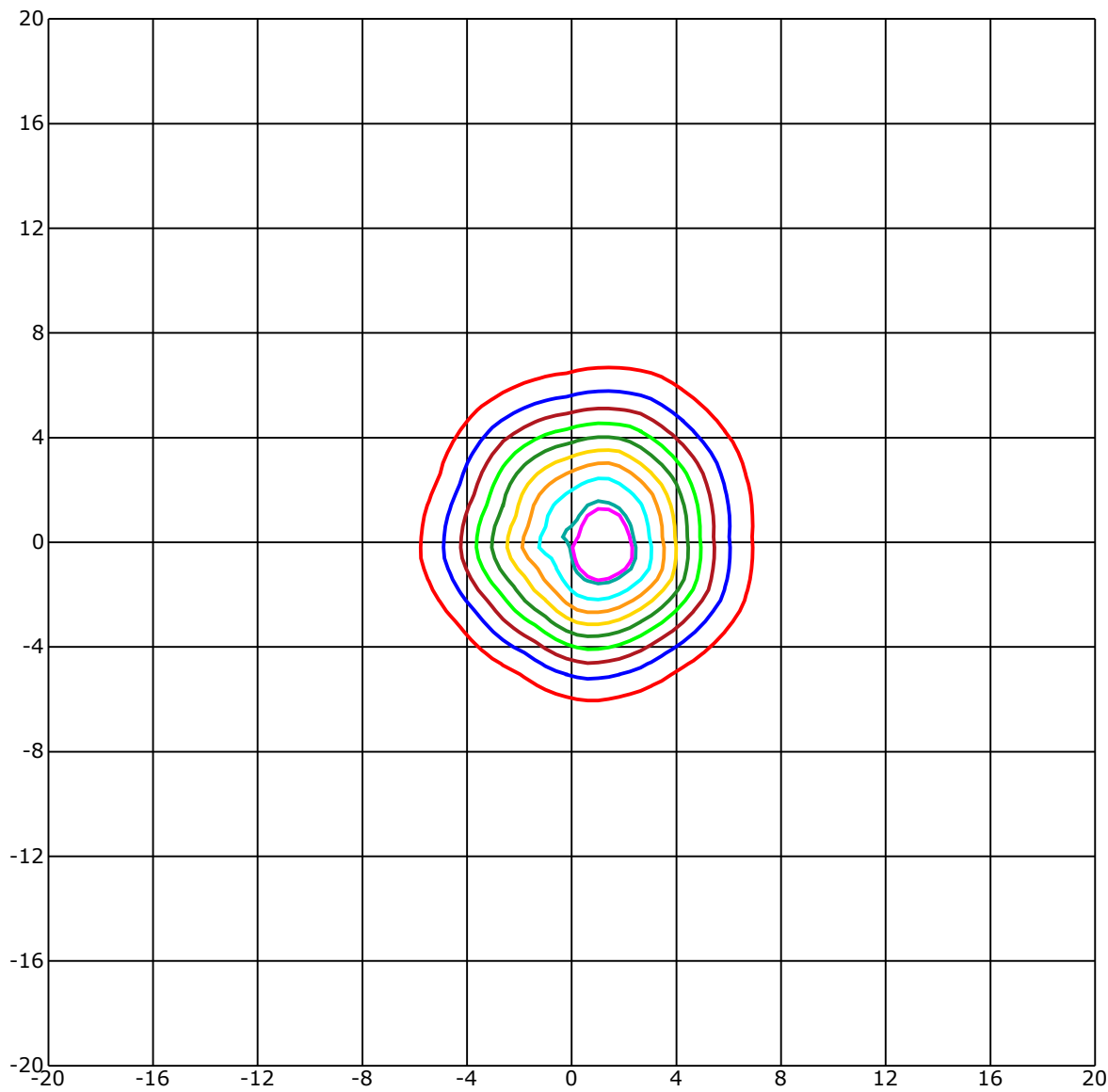
Unit of intensity:cd I_{max}(100%): 822.676 cd

- | | |
|-------------------------------|-------------------------------|
| 781.542(95%I _{max}) | 411.338(50%I _{max}) |
| 740.408(90%I _{max}) | 329.07(40%I _{max}) |
| 658.141(80%I _{max}) | 246.803(30%I _{max}) |
| 575.873(70%I _{max}) | 164.535(20%I _{max}) |
| 493.605(60%I _{max}) | 82.268(10%I _{max}) |

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ISOLX DIAGRAM



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

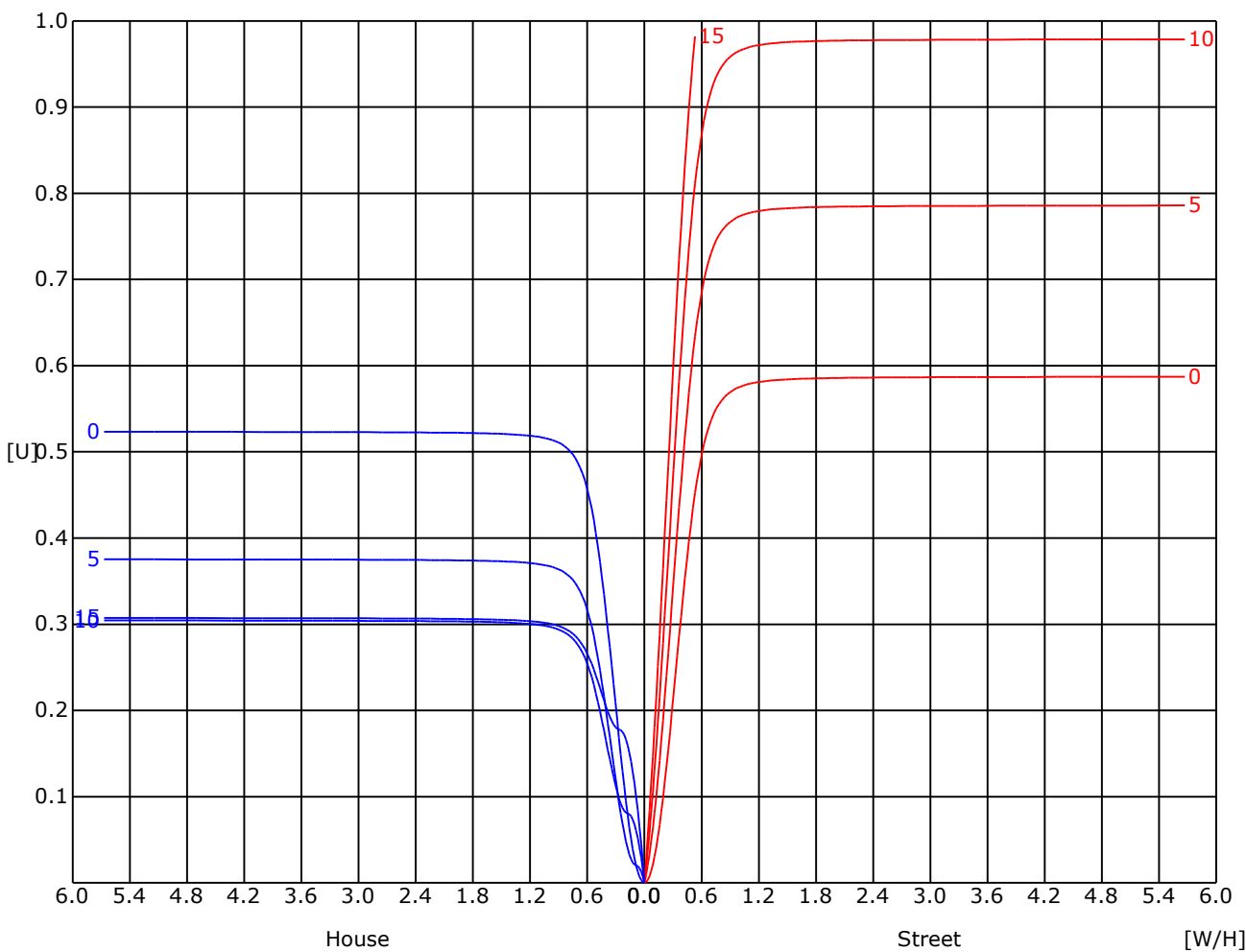
- | | |
|---------------|---------------|
| 7.431(1%Emax) | 4.039(0%Emax) |
| 7.27(1%Emax) | 3.231(0%Emax) |
| 6.462(1%Emax) | 2.423(0%Emax) |
| 5.654(1%Emax) | 1.615(0%Emax) |
| 4.846(1%Emax) | 0.808(0%Emax) |

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Test Date: 2022-06-20 15:39:59

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Humidity: 72
Test Distance: 8.86 m
Remarks:



UTILIZATION FACTOR DIAGRAM (ROAD)

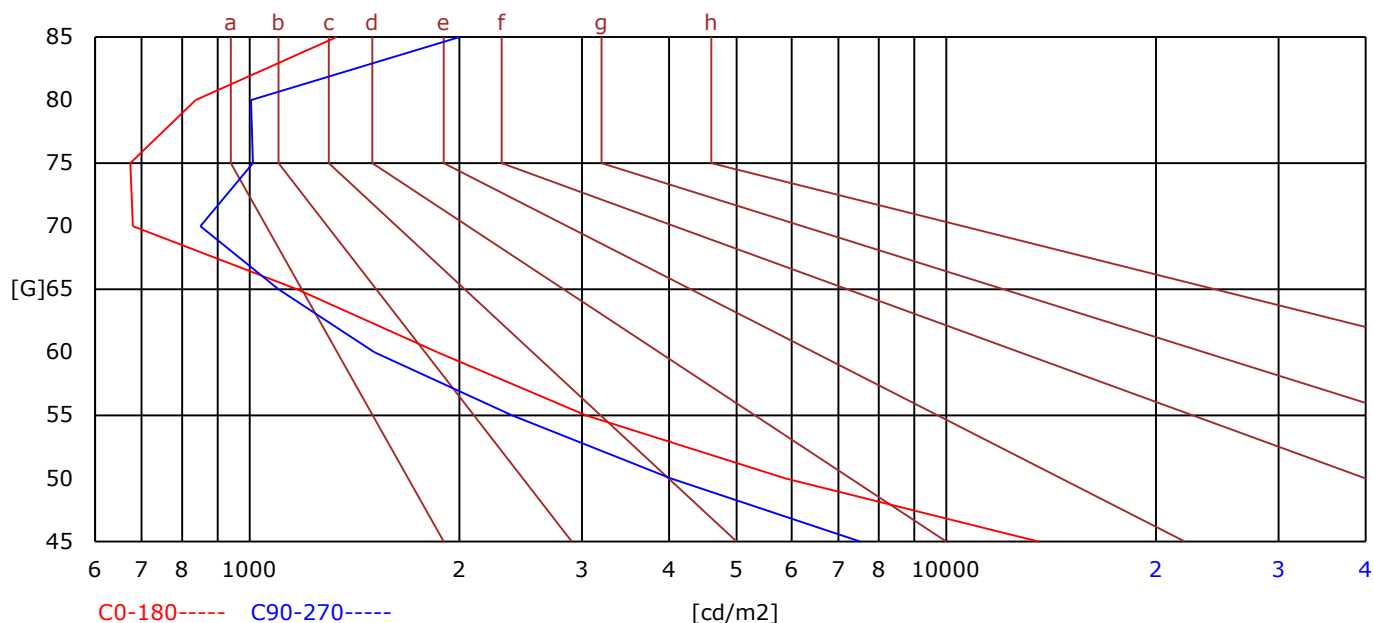


C Range: 0 - 360 Deg
C Interval: 30.0 Deg
Test Speed: High
Temperature: 30
Operators:
Test Date: 2022-06-20 15:39:59

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Humidity: 72
Test Distance: 8.86 m
Remarks:

BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	13569	5880	3041	1861	1170	680	674	837	1334
C90	7524	4026	2382	1512	1101	850	1011	1005	2002
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: 30
Operators:
Test Date: 2022-06-20 15:39:59

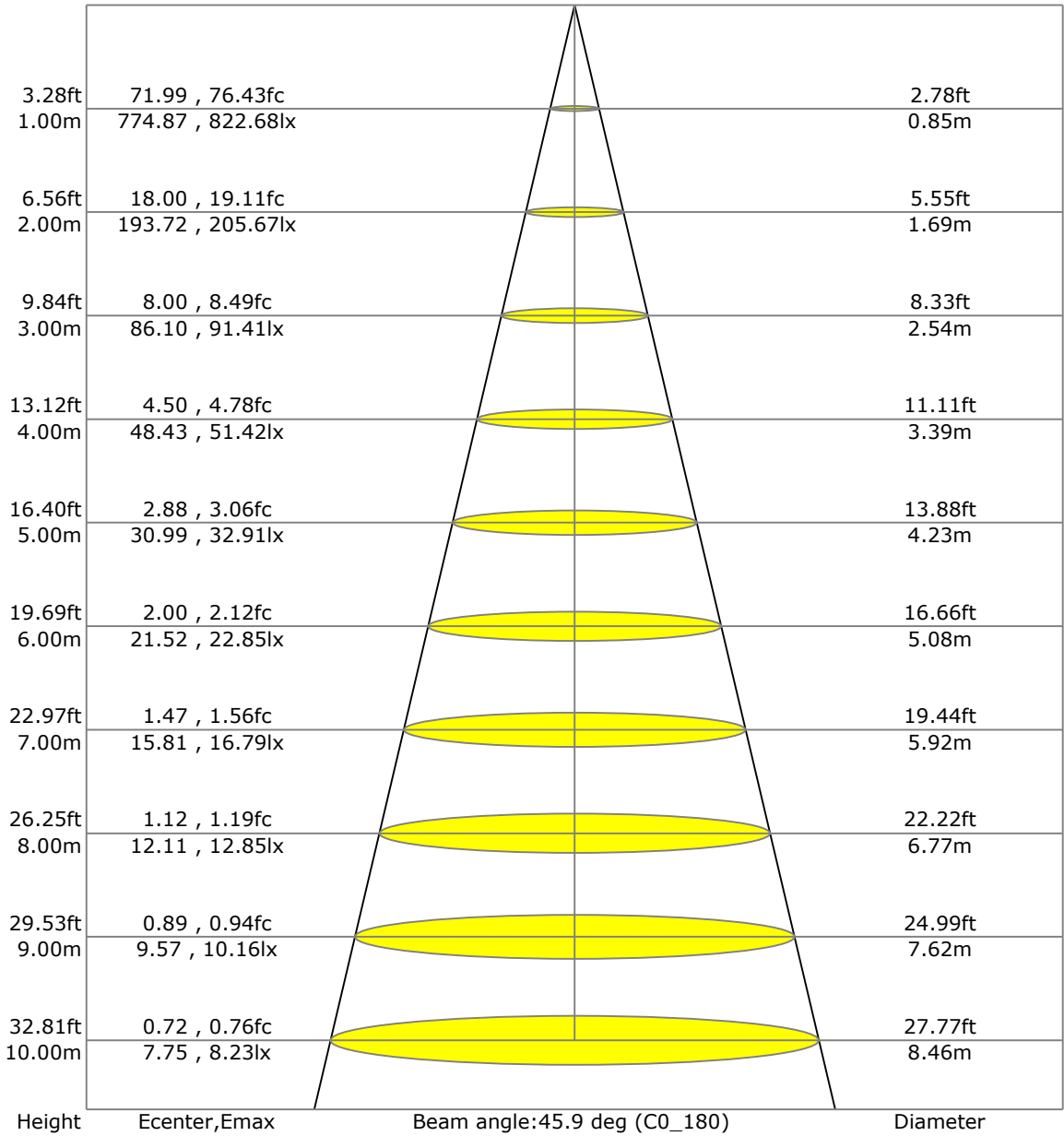
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1800B Goniophotometer
Humidity: 72
Test Distance: 8.86 m
Remarks:



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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
C Interval: 30.0 Deg
Test Speed: High
Temperature: 30
Operators:
Test Date: 2022-06-20 15:39:59

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1800B Goniophotometer
Humidity: 72
Test Distance: 8.86 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	20.55	20.60	20.75	20.78	21.03	20.15	20.20	20.35	20.38	20.63
3H	20.52	20.57	20.73	20.76	21.01	20.12	20.17	20.33	20.37	20.61
4H	20.51	20.56	20.72	20.75	21.00	20.11	20.16	20.32	20.36	20.60
6H	20.49	20.54	20.71	20.74	20.99	20.09	20.14	20.31	20.34	20.60
8H	20.48	20.53	20.70	20.74	20.99	20.09	20.14	20.30	20.34	20.59
12H	20.48	20.53	20.70	20.73	20.99	20.08	20.13	20.30	20.33	20.59
4H 2H	20.51	20.56	20.72	20.76	21.01	20.12	20.17	20.33	20.37	20.62
3H	20.48	20.53	20.70	20.74	20.99	20.09	20.14	20.32	20.35	20.60
4H	20.46	20.51	20.69	20.73	20.98	20.08	20.12	20.30	20.34	20.60
6H	20.44	20.49	20.68	20.71	20.98	20.05	20.10	20.29	20.32	20.59
8H	20.43	20.48	20.67	20.71	20.97	20.04	20.09	20.28	20.32	20.58
12H	20.42	20.47	20.67	20.70	20.97	20.03	20.08	20.28	20.31	20.58
8H 4H	20.49	20.54	20.71	20.75	21.00	20.11	20.16	20.33	20.36	20.61
6H	20.41	20.46	20.67	20.70	20.97	20.03	20.08	20.29	20.32	20.59
8H	20.40	20.44	20.66	20.69	20.97	20.02	20.06	20.28	20.31	20.59
12H	20.39	20.43	20.66	20.68	20.96	20.01	20.05	20.28	20.30	20.58
12H 4H	20.43	20.48	20.68	20.71	20.98	20.05	20.10	20.30	20.33	20.60
6H	20.41	20.45	20.67	20.69	20.97	20.03	20.07	20.29	20.32	20.60

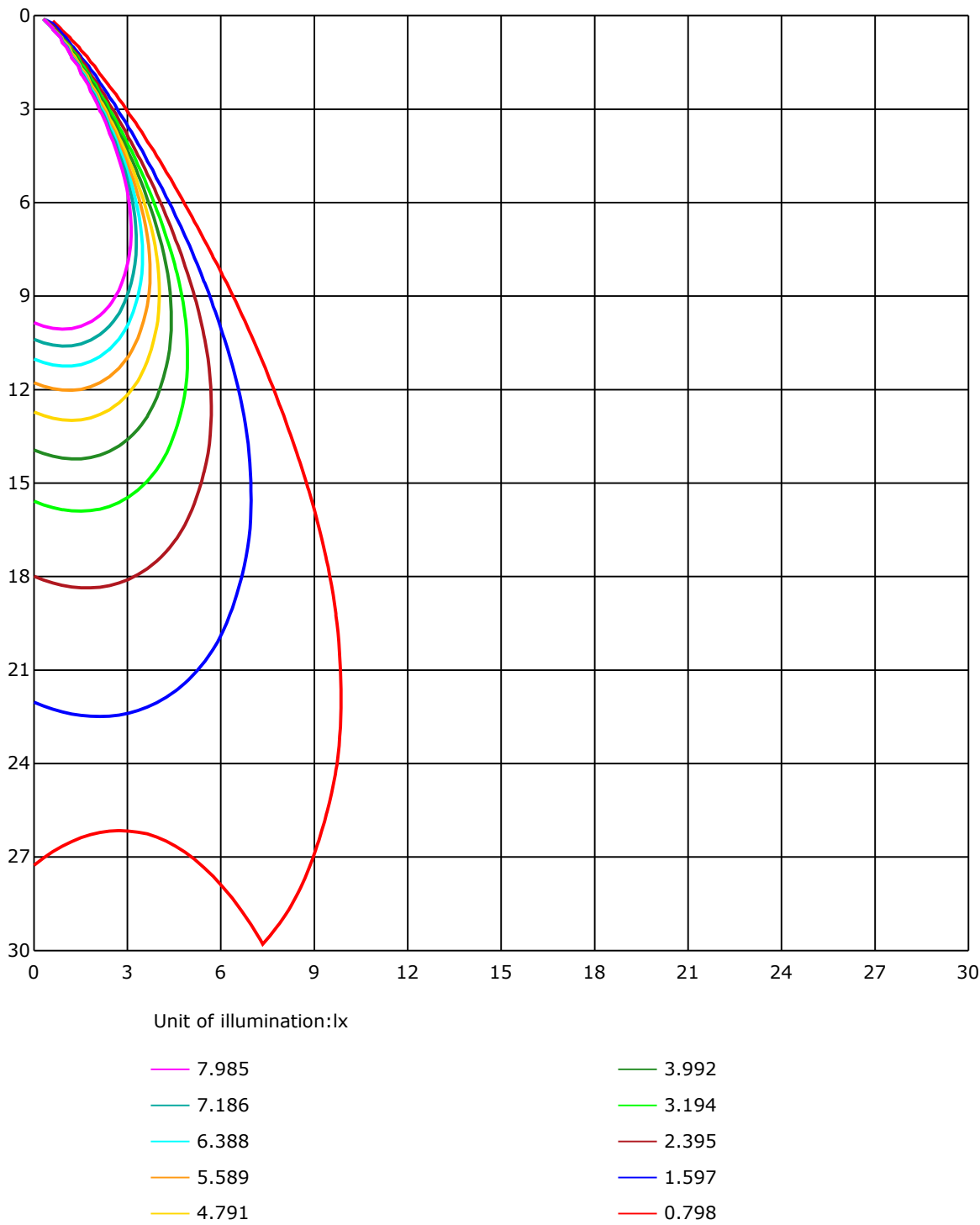
C Range: 0 - 360 Deg
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Test Speed: High
Temperature: 30
Operators:
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1800B Goniophotometer
Humidity: 72
Test Distance: 8.86 m
Remarks:

[illegible]

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1800B Goniophotometer
Humidity: 72
Test Distance: 8.86 m
Remarks:

SPACE ISOLX DIAGRAM



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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C30	C60	C90	C120	C150	C180	C210	C240	C270
G0	774.87	717.56	715.76	729.34	748.96	748.1	774.87	717.56	715.76	729.34
G1	786.41	728.95	720.94	726.67	739.86	733.97	762.0	705.87	710.03	732.01
G2	796.22	739.47	726.2	724.0	730.28	719.21	747.16	693.47	703.83	734.6
G3	804.78	749.44	731.15	721.8	720.86	704.85	732.01	679.81	696.21	736.48
G4	811.69	759.48	736.4	718.66	711.83	688.91	716.31	666.15	687.58	737.27
G5	817.02	768.28	741.43	714.42	701.32	672.58	699.51	651.7	677.69	736.8
G6	820.56	775.34	745.82	710.34	690.48	656.18	681.53	636.71	666.93	734.76
G7	822.68	780.76	749.51	705.63	679.34	639.46	663.87	620.77	653.9	730.91
G8	822.28	784.68	752.73	700.29	666.93	621.8	644.8	603.66	639.3	726.12
G9	819.46	787.19	754.38	693.07	654.69	603.58	625.41	585.29	623.13	718.11
G10	814.83	787.82	754.15	684.12	641.18	584.9	605.7	566.53	604.76	707.83
G11	807.53	786.49	752.34	673.76	625.88	564.96	584.67	546.44	583.88	695.98
G12	798.34	782.64	749.12	662.38	608.92	545.1	563.71	525.01	562.21	675.88
G13	786.64	776.36	743.78	649.03	592.36	524.77	543.92	503.73	538.74	663.24
G14	772.59	767.65	735.46	634.36	574.46	502.95	522.89	480.73	515.04	642.75
G15	755.95	757.05	724.63	616.93	555.93	481.28	501.93	457.89	490.7	619.99
G16	737.35	743.0	711.68	596.44	536.62	460.24	480.34	433.95	465.27	595.26
G17	715.45	727.22	696.45	575.17	515.43	439.68	457.73	409.53	438.11	568.42
G18	690.8	708.93	678.24	551.7	494.47	417.85	434.89	384.57	410.79	540.16
G19	664.03	687.73	657.67	527.28	473.35	393.99	412.12	358.74	382.29	510.8
G20	636.87	663.71	632.86	502.4	450.27	369.11	387.08	332.52	353.56	480.65
G21	609.16	637.89	606.49	476.34	425.39	343.67	361.96	305.05	324.36	449.88
G22	580.11	610.02	579.01	450.43	400.58	317.45	336.37	277.26	294.69	419.97
G23	548.01	580.82	550.36	423.98	375.54	290.29	309.21	248.69	263.84	388.34
G24	513.15	551.22	520.77	396.66	349.72	263.37	281.42	219.48	233.22	355.52
G25	477.83	520.22	491.33	367.22	322.87	234.48	252.77	192.17	203.16	323.65
G26	442.74	488.27	459.85	337.08	294.69	206.45	223.8	165.01	173.96	289.74
G27	405.76	455.06	429.55	306.15	266.04	179.53	196.56	140.59	147.19	256.54
G28	367.46	419.97	397.68	273.26	236.21	153.55	170.66	118.3	123.24	223.33
G29	327.66	385.35	364.94	241.07	206.69	129.52	146.01	98.91	102.29	192.4
G30	288.88	350.03	331.97	210.3	177.88	108.49	123.32	82.5	85.17	163.75
G31	250.02	313.29	298.38	180.16	151.66	90.9	103.62	69.16	70.57	137.85
G32	214.07	276.87	263.68	153.39	128.11	76.07	86.82	58.56	58.87	115.16
G33	182.35	240.37	229.53	129.13	108.17	63.82	73.24	49.45	49.06	95.06
G34	154.09	207.0	197.27	108.25	90.75	53.38	61.78	42.0	41.13	78.5
G35	127.56	175.84	167.75	89.73	75.83	45.14	52.36	35.72	34.46	64.68
G36	104.17	148.21	141.06	74.42	63.27	38.39	44.51	30.54	28.81	53.69

C Range: 0 - 360 Deg

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G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity: 72

Test Distance: 8.86 m

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C30	C60	C90	C120	C150	C180	C210	C240	C270
G37	84.54	123.4	118.46	61.86	53.3	32.5	38.07	25.98	24.26	44.82
G38	69.32	101.89	98.91	51.57	45.06	27.4	32.5	21.98	20.49	37.21
G39	57.3	83.84	82.35	43.1	38.39	23.39	27.63	18.92	17.27	31.01
G40	47.18	68.14	68.61	35.72	32.66	19.62	23.71	16.09	14.6	25.98
G41	38.31	56.05	56.6	29.91	27.55	16.64	20.17	14.05	12.17	21.59
G42	31.87	46.39	47.41	24.96	23.47	14.21	17.19	11.93	10.36	18.13
G43	26.14	38.15	39.96	20.8	19.86	12.01	14.76	10.13	8.79	15.31
G44	21.51	31.32	33.21	17.51	16.8	10.05	12.56	8.71	7.46	12.95
G45	17.82	25.9	27.63	14.6	14.37	8.56	10.91	7.54	6.36	10.91
G46	14.68	21.43	23.16	12.25	12.25	7.3	9.58	6.91	5.42	9.5
G47	12.17	17.66	19.47	10.36	10.6	6.2	8.16	5.89	4.87	8.09
G48	10.13	14.6	16.64	8.79	9.5	5.34	7.22	5.02	4.0	7.14
G49	8.56	12.09	14.21	7.46	7.77	4.79	6.12	4.63	3.61	6.12
G50	7.3	10.2	12.01	6.36	6.99	3.92	5.34	3.92	2.98	5.26
G51	6.12	8.56	10.28	5.49	6.04	3.45	4.87	3.61	2.59	4.79
G52	5.18	7.3	8.95	4.87	5.18	2.9	4.24	3.06	2.51	4.08
G53	4.63	6.2	7.61	4.08	4.79	2.59	3.77	2.67	2.12	3.69
G54	3.85	5.26	6.91	3.61	4.0	2.43	3.22	2.51	1.73	3.22
G55	3.3	4.71	5.81	3.06	3.69	2.12	2.83	2.28	1.41	2.83
G56	2.9	3.92	5.02	2.67	3.14	1.57	2.59	1.96	1.41	2.59
G57	2.59	3.38	4.63	2.51	2.75	1.49	2.35	1.57	1.02	2.43
G58	2.43	2.9	3.92	2.28	2.59	1.26	2.04	1.49	0.86	2.2
G59	2.2	2.59	3.61	1.88	2.35	1.02	1.65	1.41	0.78	1.88
G60	1.73	2.51	3.06	1.49	2.04	0.9	1.49	1.33	0.71	1.57
G61	1.49	2.2	2.83	1.41	1.65	0.78	1.41	1.18	0.63	1.49
G62	1.41	1.81	2.59	1.18	1.49	0.71	1.41	1.1	0.55	1.41
G63	1.26	1.57	2.43	1.02	1.41	0.63	1.26	1.02	0.55	1.33
G64	1.02	1.41	2.12	0.86	1.41	0.59	1.1	0.94	0.47	1.18
G65	0.86	1.33	1.88	0.71	1.26	0.55	1.02	0.86	0.47	1.1
G66	0.71	1.1	1.65	0.67	1.1	0.55	0.86	0.86	0.47	1.02
G67	0.55	0.86	1.49	0.63	1.02	0.55	0.86	0.78	0.47	0.94
G68	0.55	0.78	1.49	0.55	0.94	0.47	0.78	0.71	0.39	0.86
G69	0.55	0.63	1.33	0.55	0.86	0.39	0.71	0.63	0.39	0.78
G70	0.47	0.63	1.18	0.47	0.78	0.39	0.71	0.63	0.39	0.78
G71	0.47	0.55	1.02	0.47	0.78	0.31	0.63	0.63	0.39	0.78
G72	0.47	0.47	0.94	0.47	0.78	0.31	0.63	0.63	0.31	0.71
G73	0.47	0.47	0.86	0.47	0.71	0.31	0.63	0.55	0.31	0.71

C Range: 0 - 360 Deg

C Interval: 30.0 Deg

Test Speed: High

Temperature: 30

Operators:

Test Date: 2022-06-20 15:39:59

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity: 72

Test Distance: 8.86 m

Remarks:

[illegible]

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1800B Goniophotometer
Humidity: 72
Test Distance: 8.86 m
Remarks:

Report No.:

Test Time: 2022-06-20 15:39:59

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 3)

Gamma\C	C300	C330	C360							
G0	748.96	748.1	774.87							
G1	757.05	760.98	786.41							
G2	765.29	772.36	796.22							
G3	772.51	783.11	804.78							
G4	779.03	793.32	811.69							
G5	783.66	802.19	817.02							
G6	786.64	808.94	820.56							
G7	788.76	814.12	822.68							
G8	788.69	818.44	822.28							
G9	785.55	820.4	819.46							
G10	779.81	820.48	814.83							
G11	771.42	818.04	807.53							
G12	759.95	812.78	798.34							
G13	745.28	805.17	786.64							
G14	727.22	795.28	772.59							
G15	705.16	781.62	755.95							
G16	680.51	765.06	737.35							
G17	653.43	744.49	715.45							
G18	624.15	721.96	690.8							
G19	592.91	696.68	664.03							
G20	560.17	668.97	636.87							
G21	526.81	639.38	609.16							
G22	492.9	607.35	580.11							
G23	456.87	573.2	548.01							
G24	421.39	537.64	513.15							
G25	384.96	503.57	477.83							
G26	348.38	466.44	442.74							
G27	310.94	430.1	405.76							
G28	274.2	392.34	367.46							
G29	237.38	353.95	327.66							
G30	203.63	314.39	288.88							
G31	170.89	274.51	250.02							
G32	142.08	236.13	214.07							
G33	117.44	199.86	182.35							
G34	96.32	168.46	154.09							
G35	77.79	140.91	127.56							
G36	63.27	116.18	104.17							

C Range: 0 - 360 Deg

C Interval: 30.0 Deg

Test Speed: High

Temperature: 30

Operators:

Test Date: 2022-06-20 15:39:59

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity: 72

Test Distance: 8.86 m

Remarks:

Report No.:

Test Time: 2022-06-20 15:39:59

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 4)

Gamma\C	C300	C330	C360							
G37	51.65	95.3	84.54							
G38	42.31	76.77	69.32							
G39	34.46	62.88	57.3							
G40	28.26	51.89	47.18							
G41	22.92	42.78	38.31							
G42	19.08	35.01	31.87							
G43	15.62	28.65	26.14							
G44	12.87	23.79	21.51							
G45	10.75	19.55	17.82							
G46	9.11	16.48	14.68							
G47	7.38	14.21	12.17							
G48	6.2	11.62	10.13							
G49	5.26	9.73	8.56							
G50	4.71	8.48	7.3							
G51	3.85	7.3	6.12							
G52	3.3	6.2	5.18							
G53	2.9	5.42	4.63							
G54	2.59	4.95	3.85							
G55	2.51	4.32	3.3							
G56	2.2	3.77	2.9							
G57	1.81	3.38	2.59							
G58	1.49	2.98	2.43							
G59	1.41	2.67	2.2							
G60	1.41	2.51	1.73							
G61	1.1	2.43	1.49							
G62	0.94	2.2	1.41							
G63	0.78	1.88	1.26							
G64	0.71	1.57	1.02							
G65	0.55	1.49	0.86							
G66	0.55	1.41	0.71							
G67	0.55	1.18	0.55							
G68	0.47	1.1	0.55							
G69	0.47	1.02	0.55							
G70	0.47	0.94	0.47							
G71	0.39	0.86	0.47							
G72	0.39	0.78	0.47							
G73	0.39	0.78	0.47							

C Range: 0 - 360 Deg

C Interval: 30.0 Deg

Test Speed: High

Temperature: 30

Operators:

Test Date: 2022-06-20 15:39:59

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity: 72

Test Distance: 8.86 m

Remarks:

[illegible]

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1800B Goniophotometer
Humidity: 72
Test Distance: 8.86 m
Remarks: