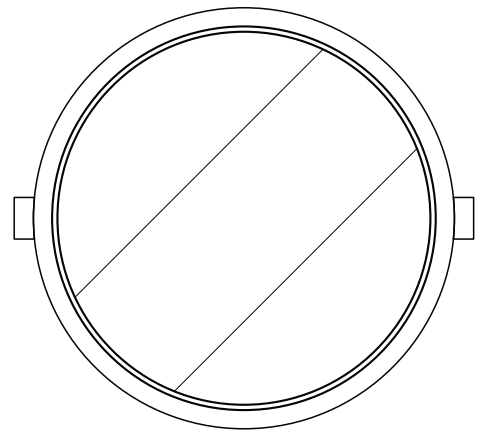




R3248R **24W**



CERTIFIED TO: IEC 60598-1: 2017
IEC 60598-2-2: 2011
CERTIFICATION NO: FC011267



BLUE LIGHT PROTECTED	FLICKER FREE	NO ULTRAVIOLET	CRI 85 COLOR RENDERING INDEX	PF 0.95 POWER FACTOR
ENERGY SAVING	LONG LIFE SPAN	IP20	SIRIM APPROVED	EDISON LED

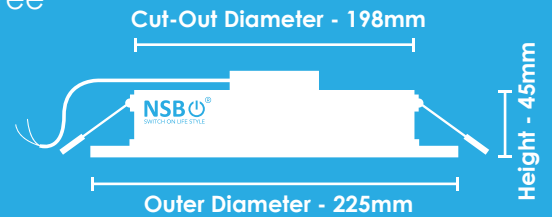


Specification

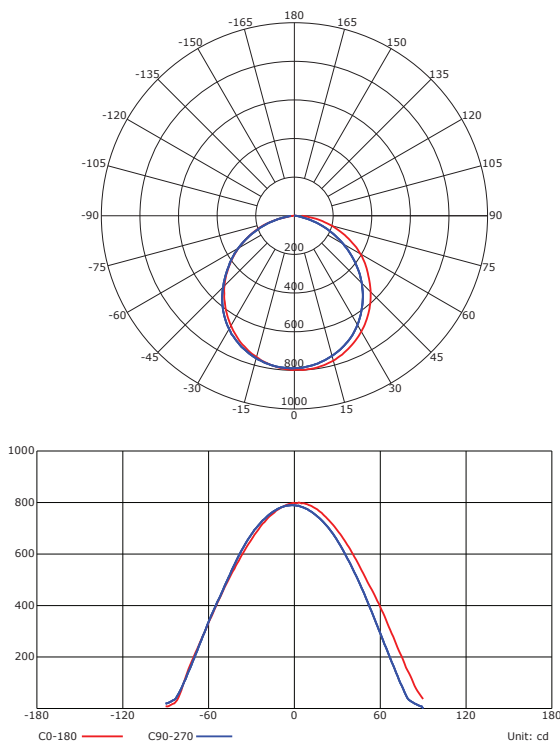
Type Indoor Recessed
Housing Color White
Material Nylon+PC

Power Factor ≥ 0.95
Power Efficiency 105.21lm/W
Voltage Input 180 - 240V 50/60Hz
Surge Protector 2.5kv

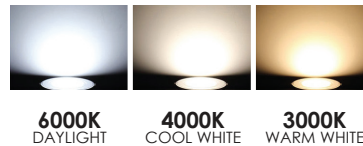
Beam Angle 116+- Degree
CRI ≥ 85
LED Model 2835
Lumen 6000K 2246lm
Lumen 4000K 2246lm
Lumen 3000K 2106lm
Lumen 3C 2246lm
Life Span 30,000 hours



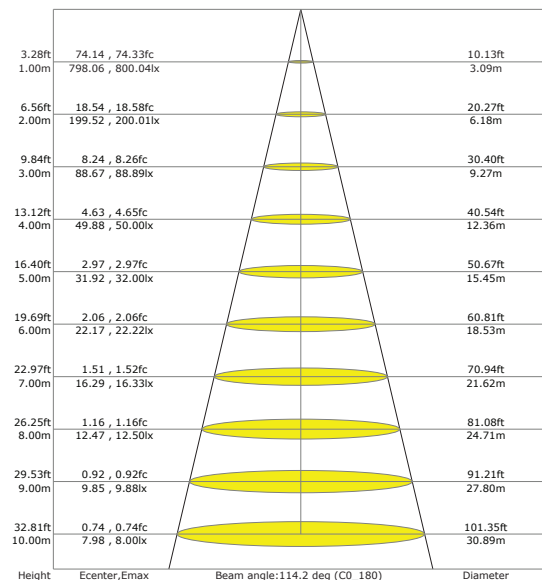
Luminous Intensity Distribution Curve :



Light Temperature :



LUX Distance Diagram :



Report No.:

Test Time: 2021/9/1 17:22:44

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: 0
Luminaire Type: NSB R3248R 24W
Lamp Type:
Luminous Width: 0 mm
Luminous Length: 0 mm
Luminous Height: 0 mm

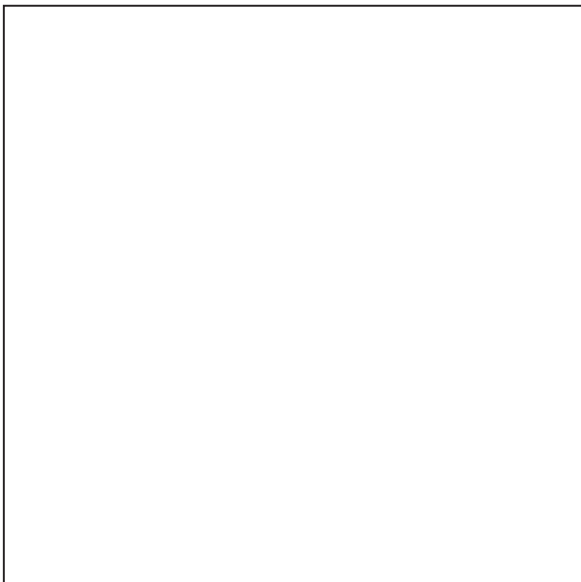
Voltage(V): 219.40 V
Current(A): 0.0990 A
Power(W): 21.35 W
Power Factor: 0.9740
Lamp Luminous Flux: 2246.21

Photometric Results

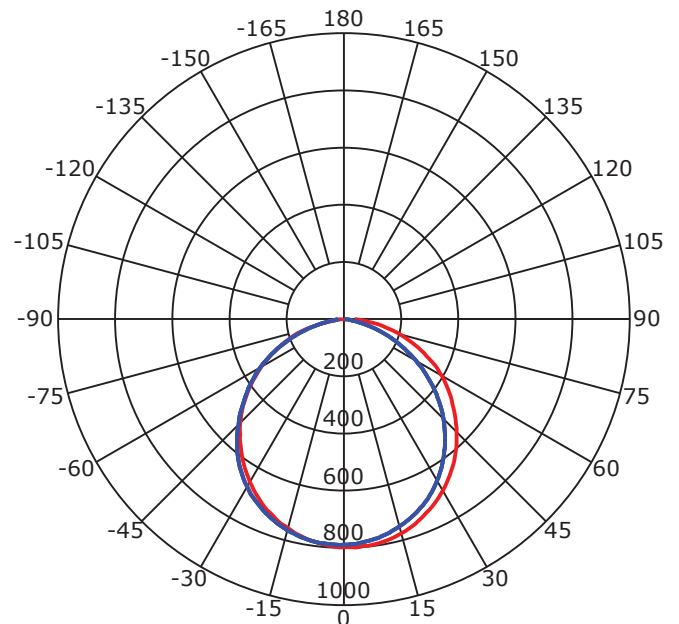
CIE Class: Direct
Luminaire Luminous Flux: 2246.213 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 105.21 lm/W
Beam Angle(50%) C0-180,C90-270: 114.2,108.0
Field Angle(10%) C0-180,C90-270: 163.3,154.9
S/MH C0-180,C90-270: 1.250,1.250

Max. Intensity: 800.04 cd
Max.Intensity Angle: C=0 Gamma=3
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 798.06 cd
Effective Luminous Flux: 2203.22 lm
ERP(ϕ use)(120deg): 1771.91 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



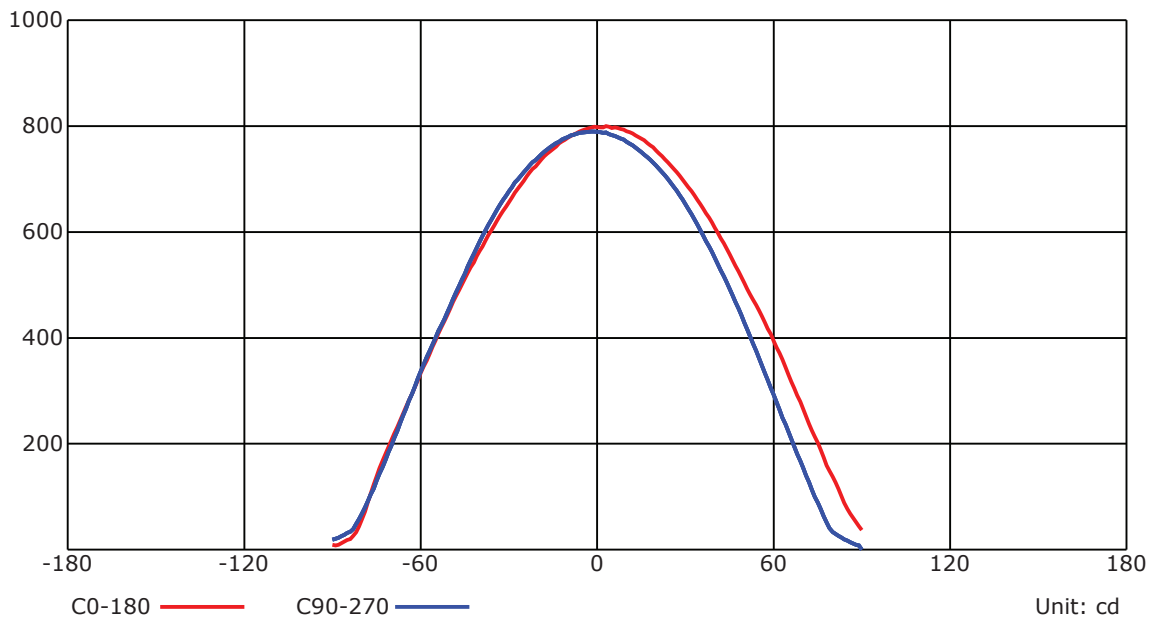
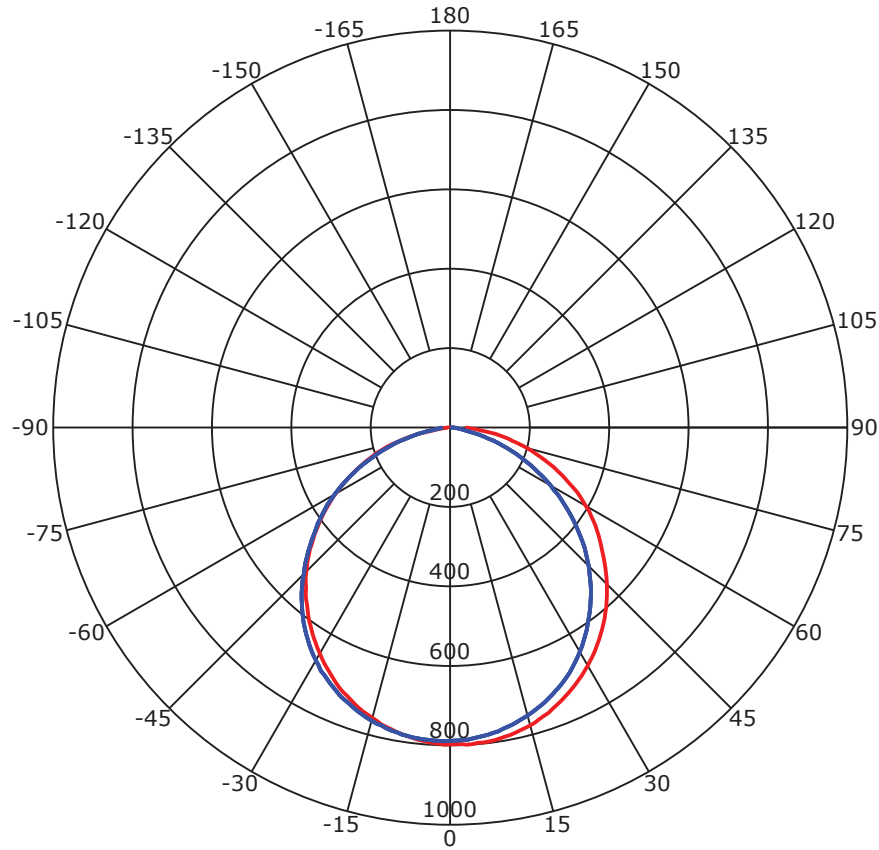
Beam Angle(50%) C0-180,C90-270: 114.2 deg,108.0 deg

C0-180 ——— C90-270 ———

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 6.22
Operators:
Test Date: 2021/9/1 17:22:44

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1800B Goniophotometer
Humidity: 1
Test Distance: 6.22 m
Remarks:

Luminous Intensity Distribution Curve



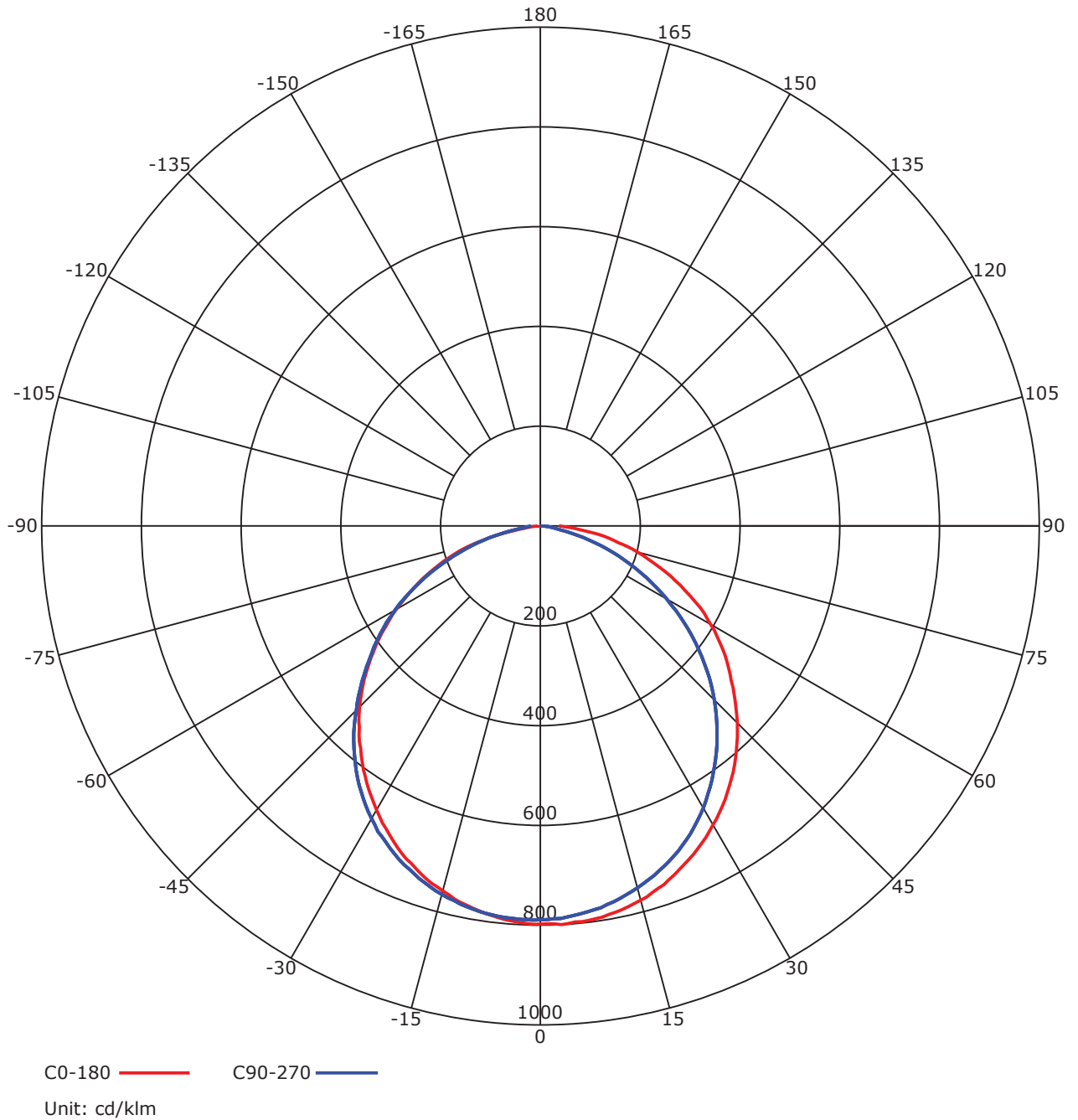
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 6.22
Operators:
Test Date: 2021/9/1 17:22:44

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1800B Goniophotometer
Humidity: 1
Test Distance: 6.22 m
Remarks:

Report No.:

Test Time: 2021/9/1 17:22:44

Luminous Intensity Distribution Curve



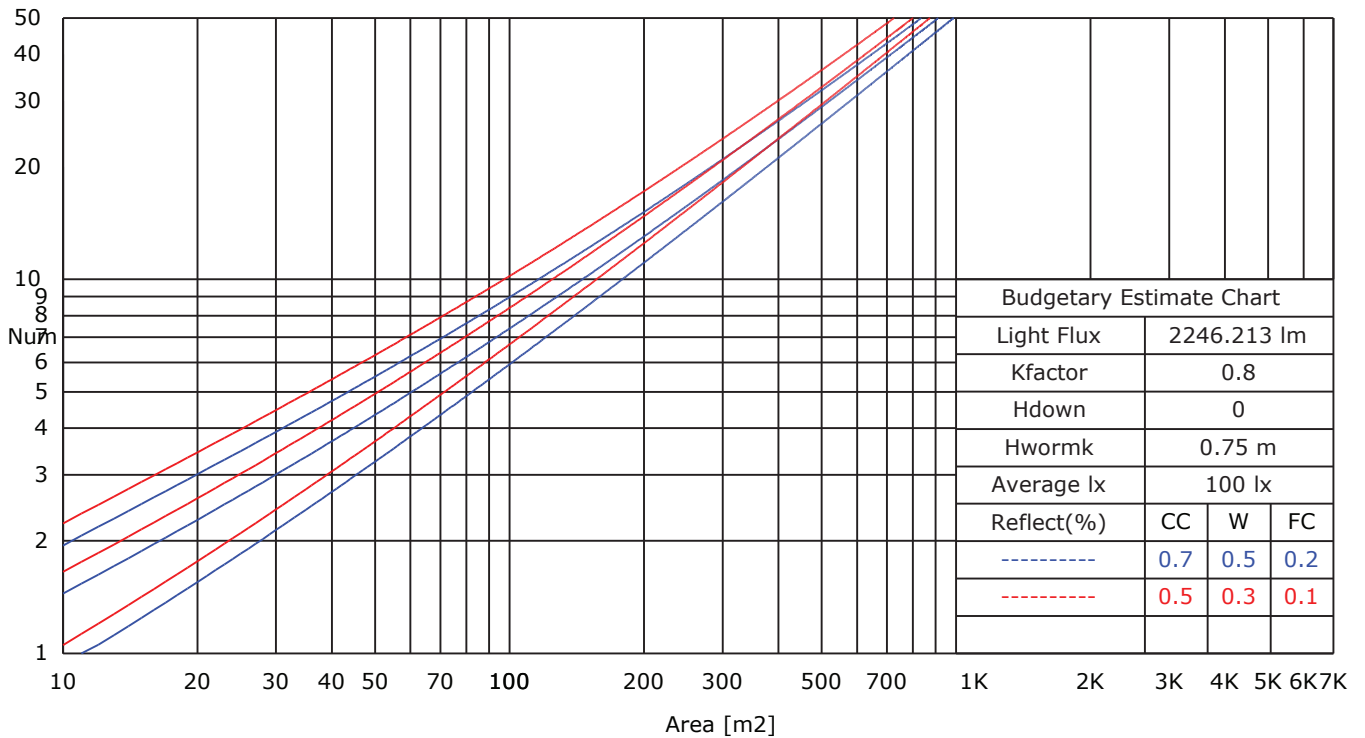
C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 6.22
 Operators:
 Test Date: 2021/9/1 17:22:44

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1800B Goniophotometer
 Humidity: 1
 Test Distance: 6.22 m
 Remarks:

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	1.05	1.04	1.05	1.04	1.02	1.02	1.00	0.98	0.97	0.95	0.93	0.90	0.88	0.86	0.81
2	0.95	0.93	0.91	0.94	0.91	0.89	0.91	0.88	0.86	0.87	0.84	0.81	0.82	0.79	0.76	0.71
3	0.84	0.82	0.80	0.84	0.81	0.79	0.82	0.78	0.75	0.79	0.75	0.72	0.75	0.71	0.67	0.63
4	0.75	0.73	0.71	0.75	0.72	0.70	0.74	0.70	0.67	0.72	0.67	0.64	0.69	0.64	0.60	0.56
5	0.68	0.66	0.64	0.68	0.65	0.63	0.67	0.63	0.60	0.66	0.61	0.57	0.64	0.58	0.54	0.50
6	0.62	0.60	0.58	0.62	0.59	0.57	0.62	0.57	0.54	0.61	0.56	0.52	0.59	0.54	0.49	0.45
7	0.57	0.54	0.53	0.57	0.54	0.52	0.57	0.53	0.50	0.56	0.51	0.47	0.55	0.49	0.45	0.41
8	0.52	0.50	0.49	0.53	0.50	0.48	0.53	0.48	0.46	0.52	0.47	0.43	0.52	0.46	0.41	0.38
9	0.48	0.46	0.45	0.49	0.46	0.44	0.49	0.45	0.42	0.49	0.44	0.40	0.49	0.43	0.38	0.35
10	0.45	0.43	0.42	0.45	0.43	0.41	0.46	0.42	0.39	0.46	0.41	0.37	0.46	0.40	0.35	0.33

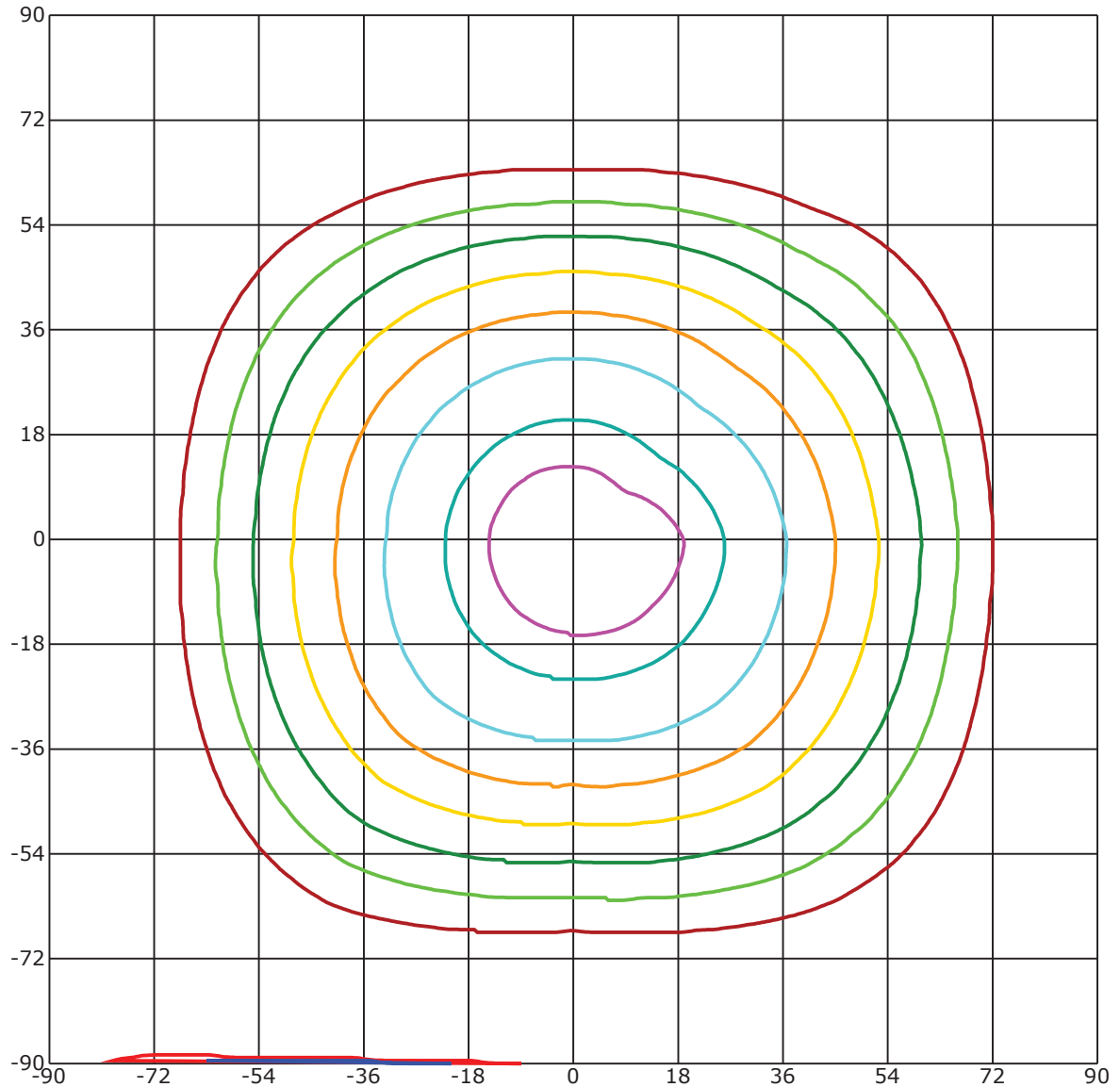
LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 6.22
 Operators:
 Test Date: 2021/9/1 17:22:44

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1800B Goniophotometer
 Humidity: 1
 Test Distance: 6.22 m
 Remarks:

ISOCANDELA DIAGRAM (RECTANGULAR)



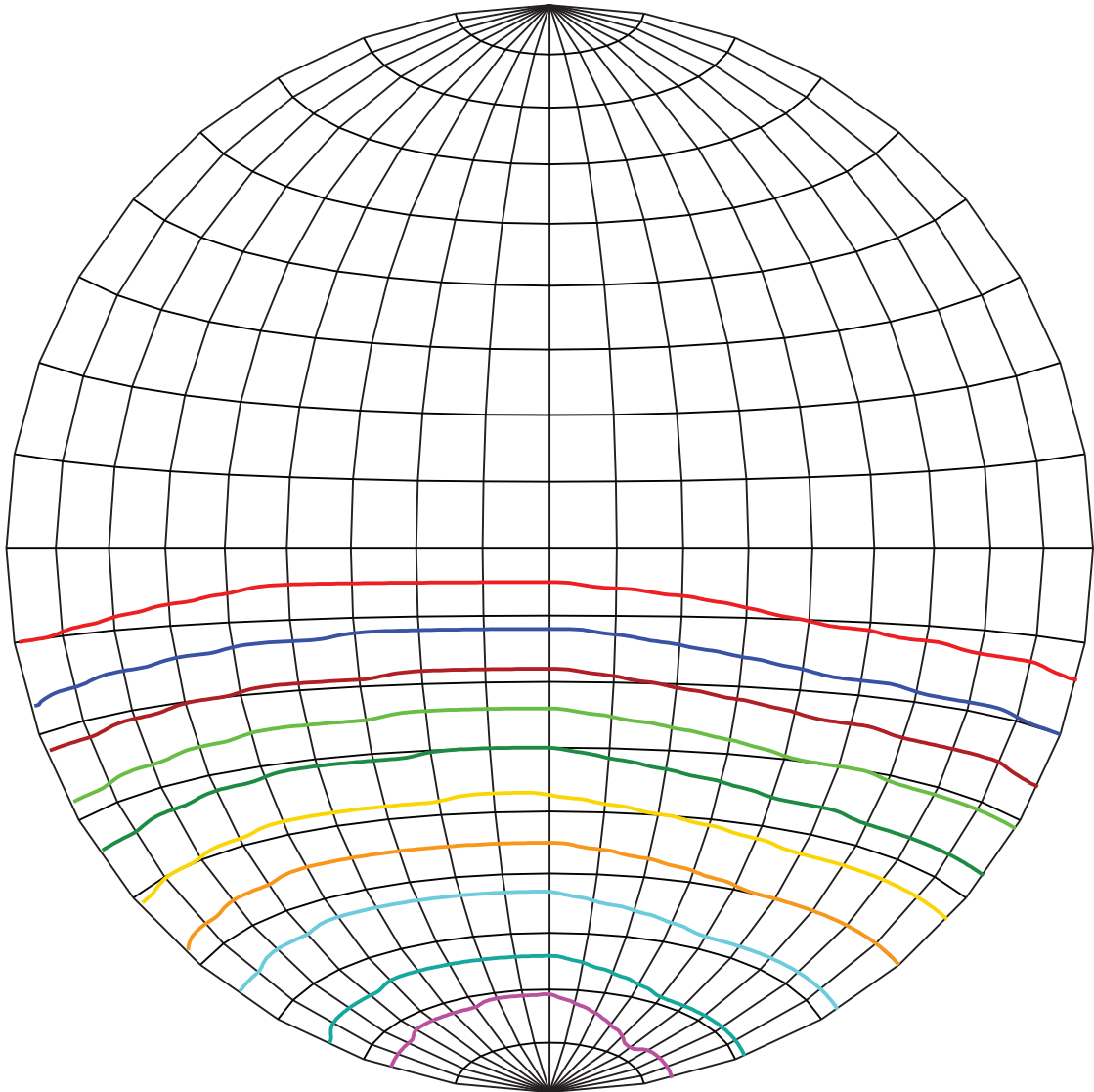
Unit of intensity:cd Imax(100%): 800.037 cd

- | | |
|--------------------|--------------------|
| — 760.036(95%Imax) | — 400.019(50%Imax) |
| — 720.034(90%Imax) | — 320.015(40%Imax) |
| — 640.03(80%Imax) | — 240.011(30%Imax) |
| — 560.026(70%Imax) | — 160.008(20%Imax) |
| — 480.023(60%Imax) | — 80.004(10%Imax) |

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 6.22
Operators:
Test Date: 2021/9/1 17:22:44

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1800B Goniophotometer
Humidity: 1
Test Distance: 6.22 m
Remarks:

ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd I_{max}(100%): 800.037 cd

— 760.036(95%I _{max})	— 400.019(50%I _{max})
— 720.034(90%I _{max})	— 320.015(40%I _{max})
— 640.03(80%I _{max})	— 240.011(30%I _{max})
— 560.026(70%I _{max})	— 160.008(20%I _{max})
— 480.023(60%I _{max})	— 80.004(10%I _{max})

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 6.22

Operators:

Test Date: 2021/9/1 17:22:44

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

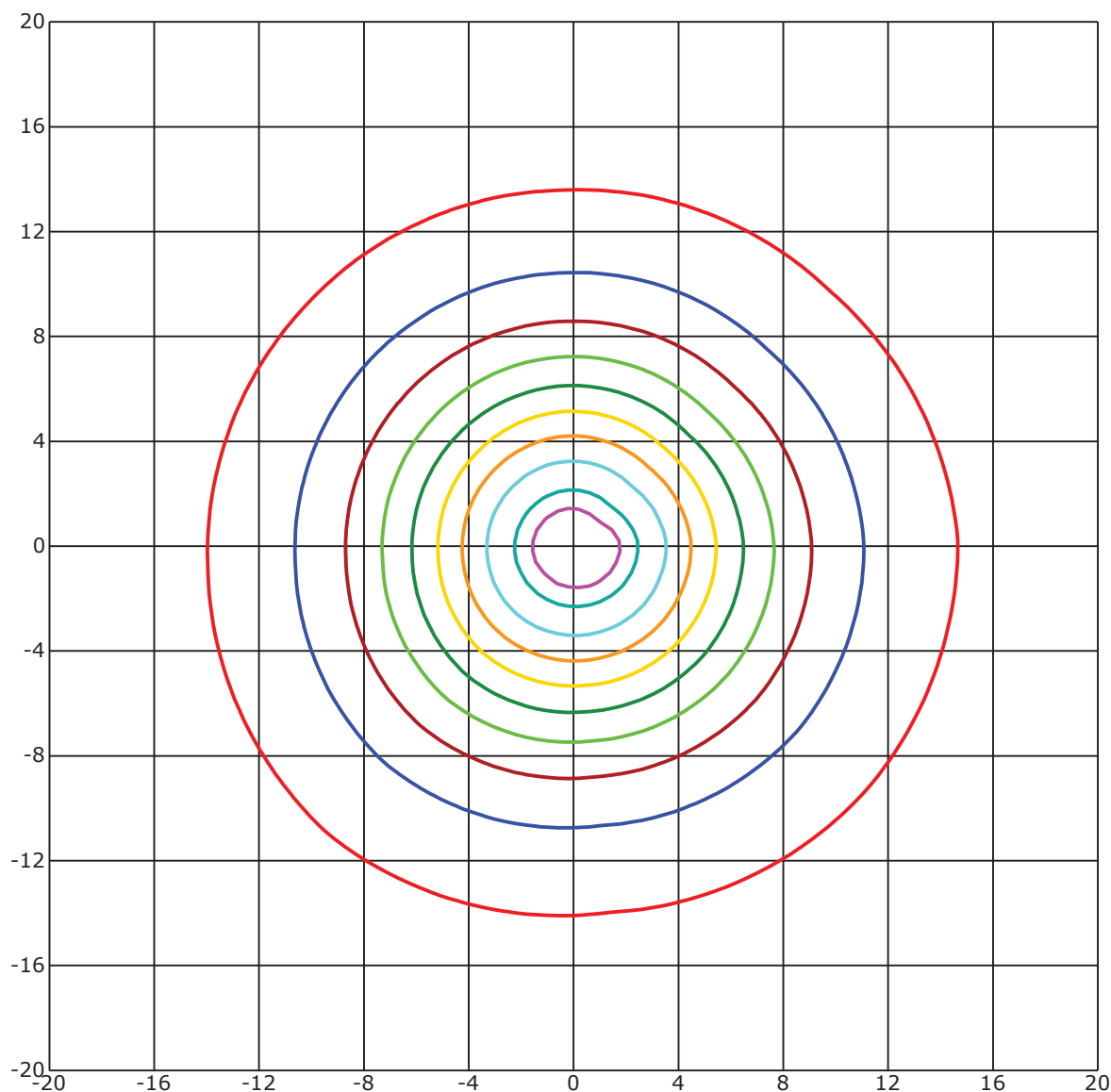
Test System: Huipu CPM-1800B Goniophotometer

Humidity: 1

Test Distance: 6.22 m

Remarks:

ISOLX DIAGRAM



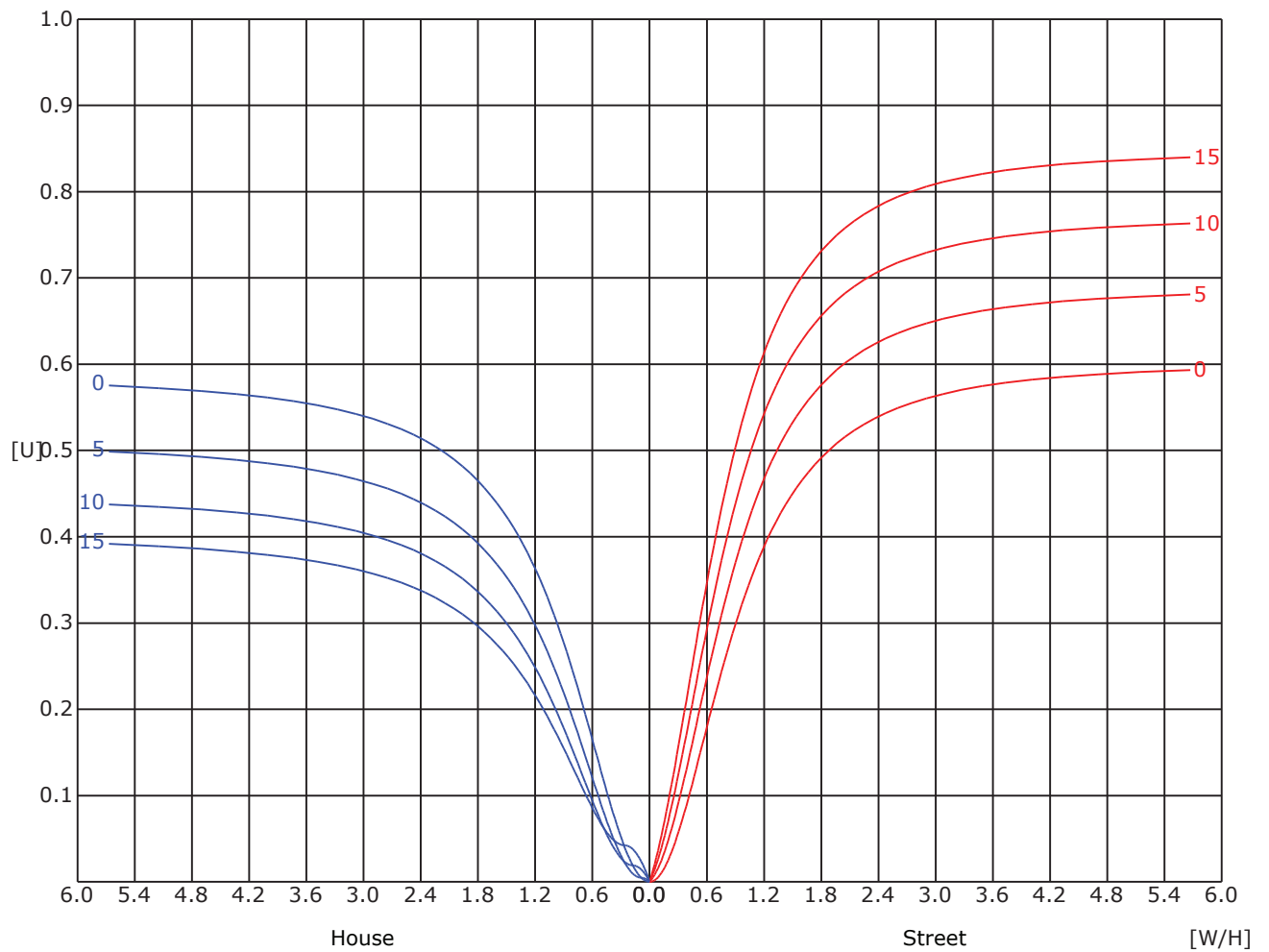
Unit of illumination:lx Height of plane:10.0(m)/32.81(ft)

- | | |
|-----------------|-----------------|
| — 7.584(1%Emax) | — 3.991(0%Emax) |
| — 7.185(1%Emax) | — 3.193(0%Emax) |
| — 6.386(1%Emax) | — 2.395(0%Emax) |
| — 5.588(1%Emax) | — 1.597(0%Emax) |
| — 4.79(1%Emax) | — 0.798(0%Emax) |

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 6.22
Operators:
Test Date: 2021/9/1 17:22:44

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1800B Goniophotometer
Humidity: 1
Test Distance: 6.22 m
Remarks:

UTILIZATION FACTOR DIAGRAM (ROAD)

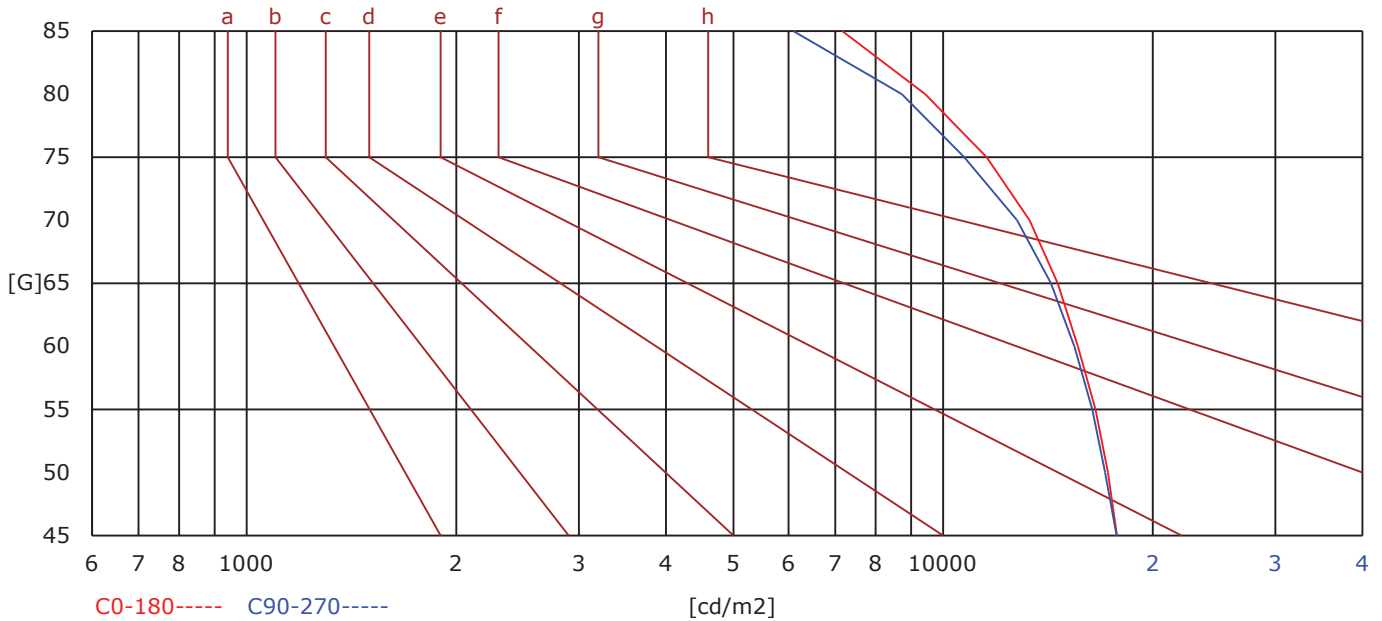


C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 6.22
Operators:
Test Date: 2021/9/1 17:22:44

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1800B Goniophotometer
Humidity: 1
Test Distance: 6.22 m
Remarks:

BRIGHT LIMIT DIAGRAM

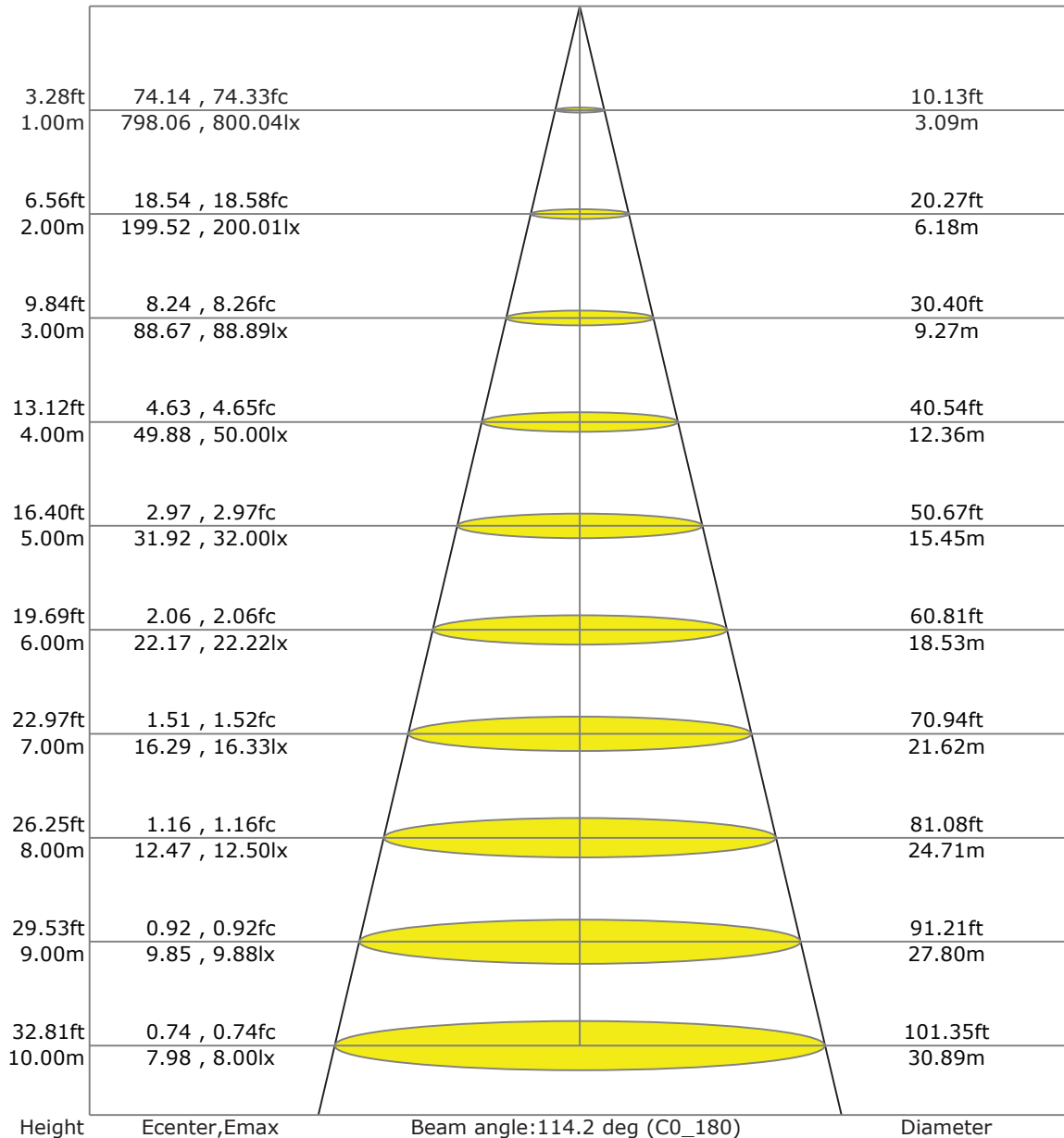
C/G	45	50	55	60	65	70	75	80	85
C0	17766	17242	16541	15611	14608	13311	11547	9424	7169
C90	17749	17078	16374	15439	14288	12765	10725	8723	6093
Dazzle	Quality	Illuminance	---	---	---	---	---	---	---
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	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: 6.22
 Operators:
 Test Date: 2021/9/1 17:22:44

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1800B Goniophotometer
 Humidity: 1
 Test Distance: 6.22 m
 Remarks:

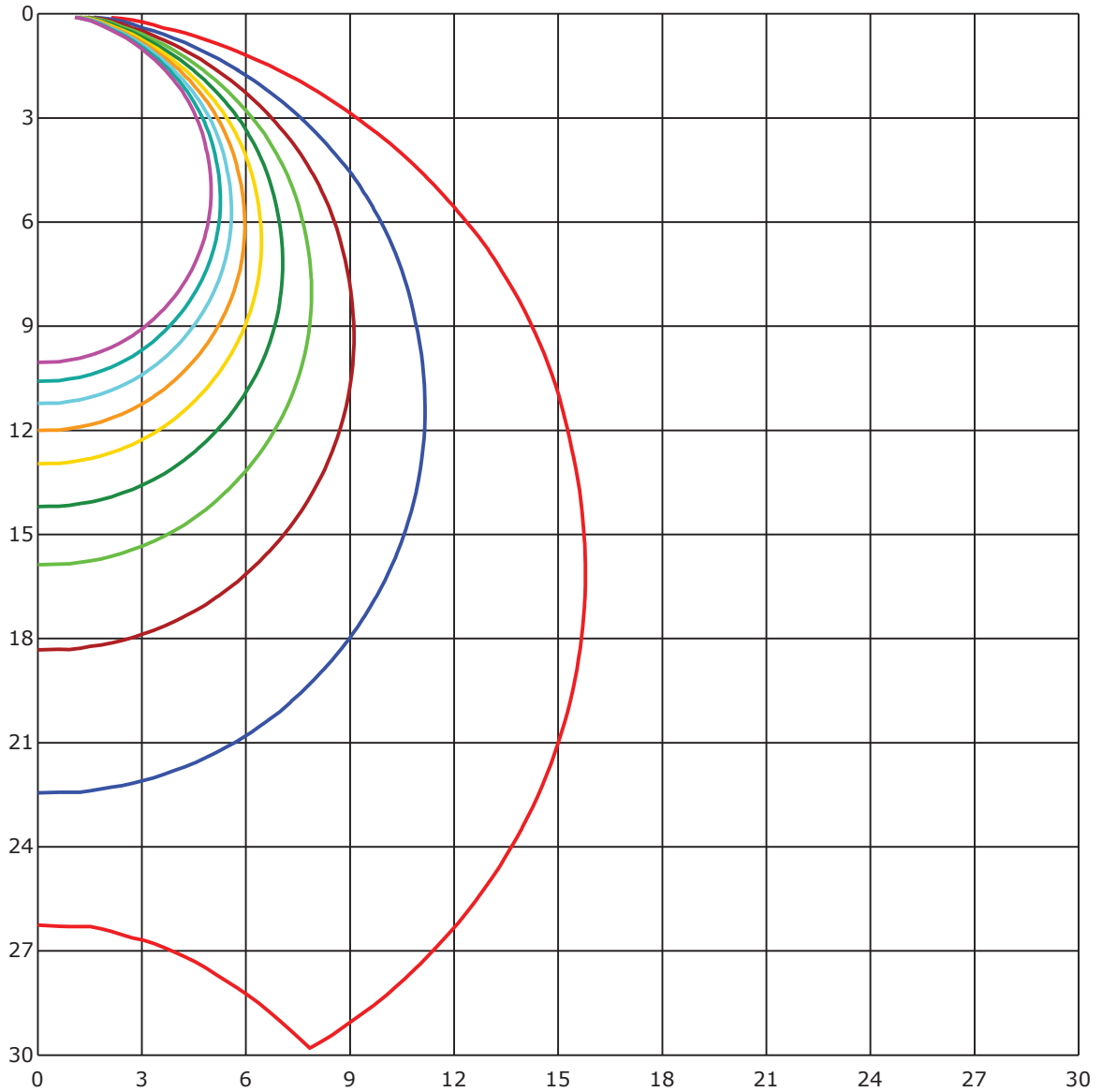
LX-DISTANCE DIAGRAM





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	19.32	19.40	19.52	19.58	19.83	18.68	18.76	18.88	18.94	19.19
3H	19.39	19.47	19.60	19.66	19.91	18.84	18.91	19.04	19.11	19.35
4H	19.39	19.46	19.60	19.66	19.91	18.86	18.94	19.08	19.13	19.38
6H	19.36	19.43	19.58	19.63	19.89	18.85	18.93	19.07	19.13	19.38
8H	19.35	19.42	19.57	19.62	19.87	18.84	18.91	19.06	19.11	19.37
12H	19.33	19.40	19.55	19.60	19.86	18.82	18.89	19.04	19.10	19.35
4H 2H	22.22	22.29	22.43	22.49	22.74	20.60	20.68	20.82	20.87	21.12
3H	22.40	22.47	22.62	22.67	22.93	20.89	20.95	21.11	21.16	21.42
4H	22.42	22.48	22.65	22.70	22.96	20.96	21.03	21.19	21.24	21.50
6H	22.40	22.46	22.64	22.68	22.95	21.00	21.06	21.23	21.28	21.54
8H	22.39	22.44	22.63	22.67	22.94	21.00	21.05	21.24	21.28	21.55
12H	22.37	22.42	22.61	22.65	22.92	20.98	21.04	21.23	21.27	21.54
8H 4H	23.23	23.30	23.45	23.51	23.76	20.83	20.90	21.05	21.10	21.36
6H	23.67	23.72	23.92	23.95	24.23	21.40	21.45	21.65	21.69	21.96
8H	23.66	23.70	23.92	23.95	24.22	21.42	21.47	21.69	21.72	21.99
12H	23.64	23.68	23.91	23.93	24.21	21.43	21.48	21.70	21.73	22.01
12H 4H	23.98	24.03	24.23	24.26	24.53	21.36	21.41	21.61	21.64	21.91
6H	24.04	24.09	24.31	24.34	24.61	21.47	21.51	21.73	21.76	22.03

SPACE ISOLX DIAGRAM



Unit of illumination:lx

- | | |
|---|--|
|  7.92 |  3.96 |
|  7.128 |  3.168 |
|  6.336 |  2.376 |
|  5.544 |  1.584 |
|  4.752 |  0.792 |

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 6.22
Operators:
Test Date: 2021/9/1 17:22:44

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1800B Goniophotometer
Humidity: 1
Test Distance: 6.22 m
Remarks:

Report No.:

Test Time: 2021/9/1 17:22:44

LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	798.06	786.07	789.17	791.84	798.06	786.07	789.17	791.84	798.06	
G1	797.52	784.33	788.7	793.11	798.64	786.23	789.67	792.49	797.52	
G2	797.95	784.48	787.5	792.07	797.1	785.57	789.51	794.08	797.95	
G3	800.04	782.78	787.85	790.44	795.94	786.03	789.17	793.81	800.04	
G4	798.92	781.66	785.03	789.4	793.96	785.53	788.39	793.58	798.92	
G5	796.75	779.88	783.36	787.27	792.07	784.56	787.85	792.61	796.75	
G6	797.64	776.51	781.04	784.72	790.06	783.56	787.15	790.17	797.64	
G7	796.28	775.32	779.11	782.36	787.08	781.74	785.65	790.79	796.28	
G8	794.81	772.14	776.44	779.34	784.52	780.42	783.9	788.93	794.81	
G9	793.42	769.2	774.74	776.28	781.39	778.33	782.43	786.42	793.42	
G10	790.25	766.22	770.32	772.88	778.1	776.09	779.49	785.06	790.25	
G11	788.74	762.7	767.11	768.89	774.19	773.92	777.17	782.78	788.74	
G12	786.23	758.91	763.63	765.76	771.06	771.14	774.54	780.23	786.23	
G13	782.82	755.86	759.45	762.2	767.19	768.16	770.21	777.6	782.82	
G14	779.73	750.86	755.24	757.25	761.5	763.21	768.04	774.08	779.73	
G15	776.59	746.26	750.9	753.22	756.94	761.12	764.48	770.29	776.59	
G16	773.42	741.11	746.11	748.47	752.33	757.25	760.42	766.57	773.42	
G17	768.12	736.4	741.27	742.47	748.27	753.07	755.93	762.59	768.12	
G18	763.55	731.37	736.74	738.33	743.01	748.7	751.48	757.63	763.55	
G19	760.07	727.5	730.94	731.21	736.98	743.82	747.03	753.88	760.07	
G20	754.08	720.73	725.6	725.45	730.44	738.56	741.31	748.39	754.08	
G21	748.66	714.46	719.76	719.41	724.09	733.49	735.93	743.17	748.66	
G22	743.13	708.15	713.14	712.64	719.14	728.0	731.64	737.67	743.13	
G23	737.09	701.3	707.15	706.33	712.37	722.35	725.99	732.99	737.09	
G24	731.52	694.46	700.22	700.84	705.29	717.05	719.02	726.03	731.52	
G25	725.99	687.42	693.22	692.17	696.97	710.82	712.83	721.54	725.99	
G26	719.37	679.99	686.1	684.71	689.39	705.1	706.1	715.77	719.37	
G27	712.72	672.44	677.98	676.93	681.61	698.87	699.37	709.55	712.72	
G28	706.49	665.13	669.58	668.77	674.3	693.3	693.88	702.19	706.49	
G29	698.94	656.58	661.53	660.95	665.48	687.69	684.71	696.58	698.94	
G30	691.94	648.46	652.56	652.44	657.05	681.07	677.09	690.43	691.94	
G31	684.82	640.1	643.5	643.97	648.26	675.85	669.08	684.28	684.82	
G32	677.43	631.32	633.68	634.99	639.71	666.79	660.49	676.51	677.43	
G33	669.43	622.57	624.31	626.48	631.24	659.21	651.86	669.39	669.43	
G34	661.3	613.52	614.45	617.23	622.26	651.36	642.77	661.73	661.3	
G35	652.91	604.62	604.31	607.64	612.44	643.19	633.41	653.87	652.91	
G36	644.39	595.41	593.83	597.81	603.58	634.84	623.66	645.55	644.39	

C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 6.22
 Operators:
 Test Date: 2021/9/1 17:22:44

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1800B Goniophotometer
 Humidity: 1
 Test Distance: 6.22 m
 Remarks:

Report No.:

Test Time: 2021/9/1 17:22:44

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	635.77	585.97	583.27	587.75	593.67	626.02	613.52	637.31	635.77	
G38	627.25	576.34	572.94	577.5	583.73	618.47	603.15	628.3	627.25	
G39	617.85	566.75	562.18	566.24	572.86	607.72	592.55	619.13	617.85	
G40	607.99	556.15	550.69	556.96	564.43	598.47	581.72	609.57	607.99	
G41	598.59	545.89	539.55	546.36	554.4	588.49	570.5	599.71	598.59	
G42	588.57	535.41	528.1	535.68	542.45	580.21	559.05	589.57	588.57	
G43	578.89	524.96	516.37	524.54	533.71	568.02	546.98	579.75	578.89	
G44	568.26	513.7	504.81	513.16	523.38	557.62	535.06	568.95	568.26	
G45	558.04	502.48	492.7	502.02	512.27	547.05	521.44	558.35	558.04	
G46	547.4	491.42	480.59	490.1	501.48	535.8	510.57	547.21	547.4	
G47	536.22	480.05	468.28	478.69	490.57	526.24	498.58	536.22	536.22	
G48	525.78	468.36	455.67	465.92	479.12	514.01	485.77	525.04	525.78	
G49	514.87	455.75	442.56	452.07	468.09	502.48	473.66	513.09	514.87	
G50	503.84	443.33	429.09	439.11	455.63	491.3	460.35	501.75	503.84	
G51	492.39	430.72	415.86	426.62	443.56	479.54	448.17	489.91	492.39	
G52	482.29	417.99	402.86	415.05	432.03	467.78	435.4	476.49	482.29	
G53	472.08	403.83	389.32	402.13	419.89	456.17	423.64	466.27	472.08	
G54	462.02	392.26	375.47	387.97	408.05	444.22	413.08	454.05	462.02	
G55	451.57	379.49	361.66	375.66	395.12	431.99	399.96	441.78	451.57	
G56	440.66	366.53	347.81	362.59	383.21	420.31	387.85	429.4	440.66	
G57	429.29	353.5	334.07	349.05	370.13	407.97	375.39	416.91	429.29	
G58	417.64	340.42	320.42	334.96	357.71	395.47	364.17	404.41	417.64	
G59	407.27	327.23	304.59	322.24	346.22	383.05	349.74	391.87	407.27	
G60	394.0	312.22	292.41	308.77	333.65	370.52	336.86	378.06	394.0	
G61	381.89	300.53	278.44	295.46	319.84	357.98	323.36	366.19	381.89	
G62	371.56	286.18	264.51	281.61	307.26	343.48	308.69	353.07	371.56	
G63	359.3	274.34	249.39	268.3	294.84	331.83	294.53	339.57	359.3	
G64	344.02	259.68	236.54	254.69	282.08	317.09	281.03	326.45	344.02	
G65	330.48	246.95	222.65	241.53	269.54	305.37	266.49	312.91	330.48	
G66	316.94	234.76	208.92	227.95	257.08	292.17	253.33	299.29	316.94	
G67	305.06	221.92	194.83	214.41	244.24	278.75	239.4	285.71	305.06	
G68	291.48	208.72	181.22	201.45	231.7	263.97	224.47	272.02	291.48	
G69	279.29	194.83	167.64	189.46	219.13	251.24	210.5	258.48	279.29	
G70	265.63	182.11	154.48	174.64	206.56	238.4	195.88	244.86	265.63	
G71	251.82	169.22	139.97	163.5	193.71	224.97	183.81	231.24	251.82	
G72	237.86	156.77	127.94	148.76	181.18	212.32	169.3	218.13	237.86	
G73	225.24	144.42	113.47	136.61	168.14	199.55	155.95	204.93	225.24	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 6.22

Operators:

Test Date: 2021/9/1 17:22:44

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity: 1

Test Distance: 6.22 m

Remarks:

