

Report No.:

Test Time: 2021/9/1 15:02:08

LUMINAIRE PHOTOMETRIC TEST REPORT

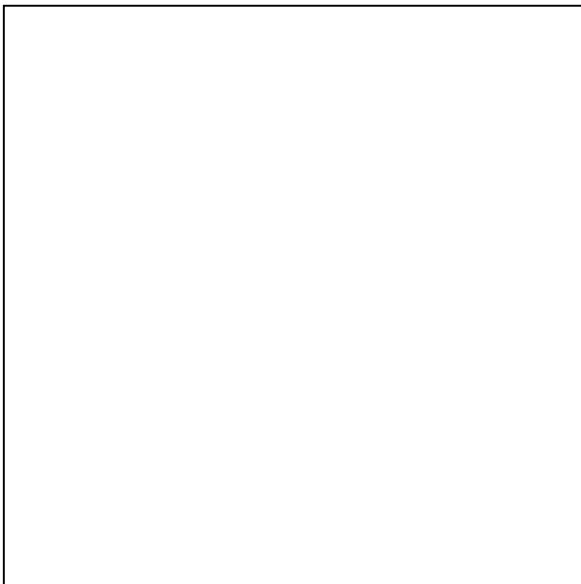
Luminaire Property

Manufacturer: 0	Voltage(V): 219.70 V
Luminaire Type: 投光灯 10W	Current(A): 0.0430 A
Lamp Type:	Power(W): 9.40 W
Luminous Width: 0 mm	Power Factor: 0.9750
Luminous Length: 0 mm	Lamp Luminous Flux: 892.50
Luminous Height: 0 mm	

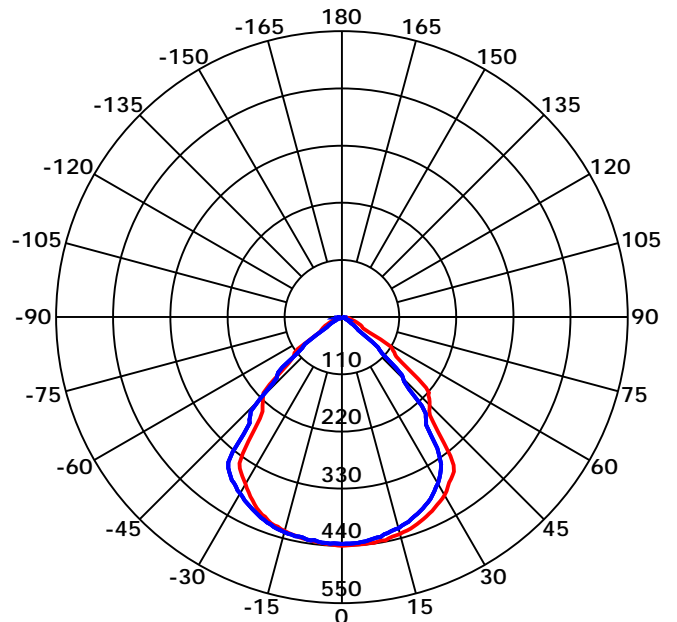
Photometric Results

CIE Class: Direct	Max. Intensity: 440.16 cd
Luminaire Luminous Flux: 892.5035 lm	Max. Intensity Angle: C=180 Gamma=0
Downward Ratio: 100.00%	Upward Ratio: 0.00%
Luminaire Efficacy Rating(LER): 94.95 lm/W	Efficacy: 100.00%
Beam Angle(50%) C0-180,C90-270: 92.9,87.4	Center Intensity: 440.16 cd
Field Angle(10%) C0-180,C90-270: 123.1,107.6	Effective Luminous Flux: 850.92 lm
S/MH C0-180,C90-270: 1.250,1.250	ERP(φ use)(120deg): 844.48 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 92.9 deg,87.4 deg

C0-180 ——— C90-270 ———

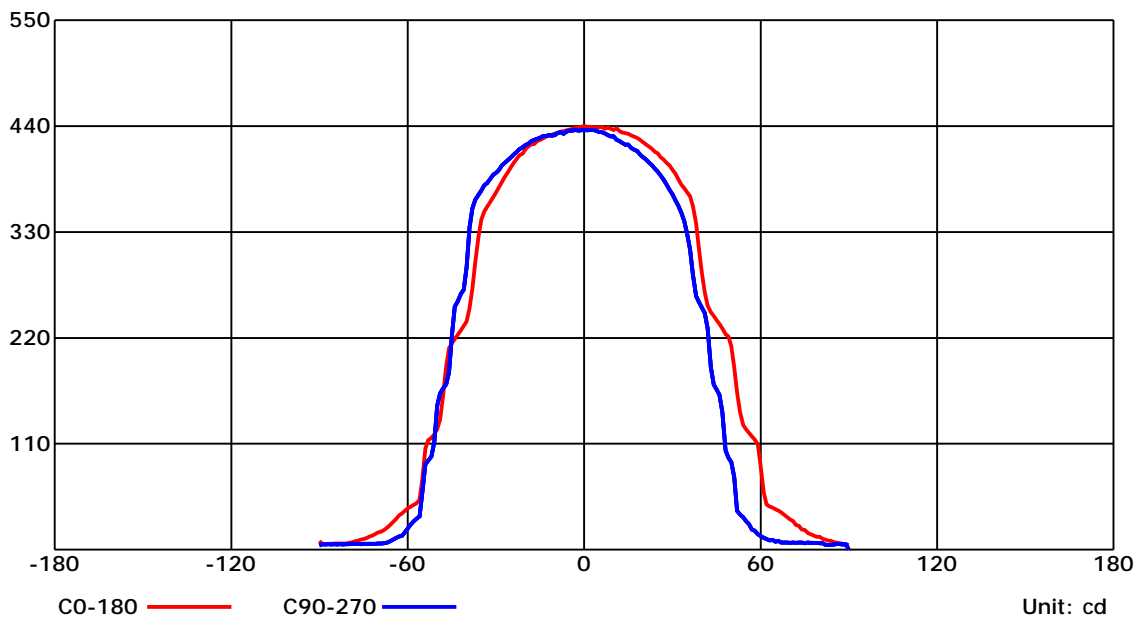
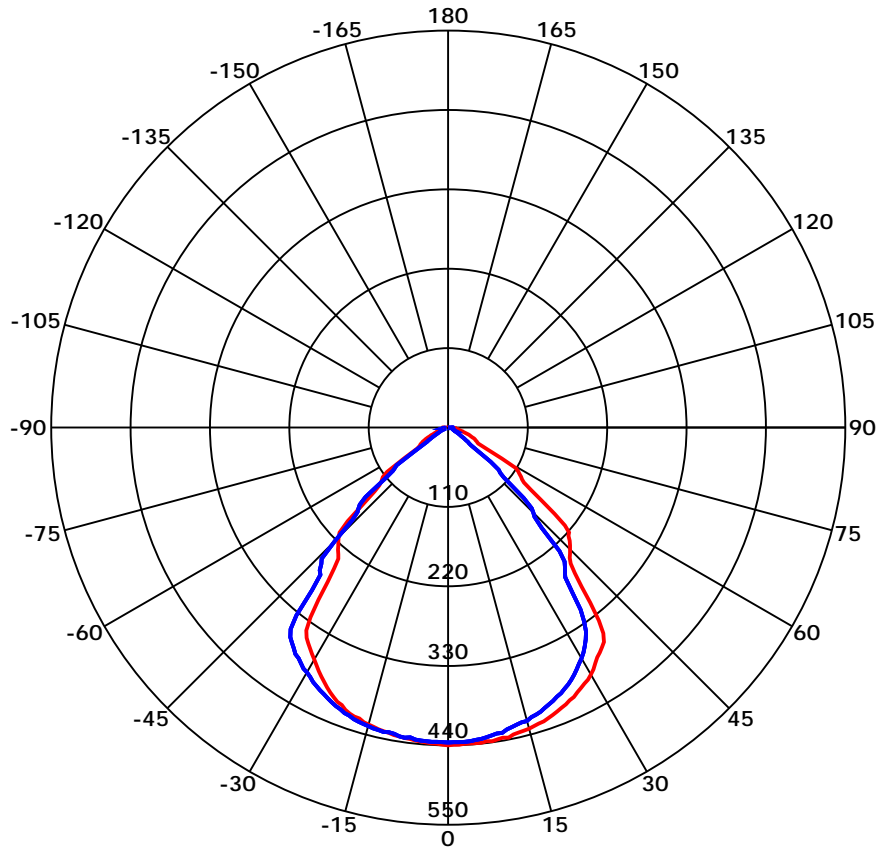
C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 6.22
 Operators:
 Test Date: 2021/9/1 15:02:08

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

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Luminous Intensity Distribution Curve



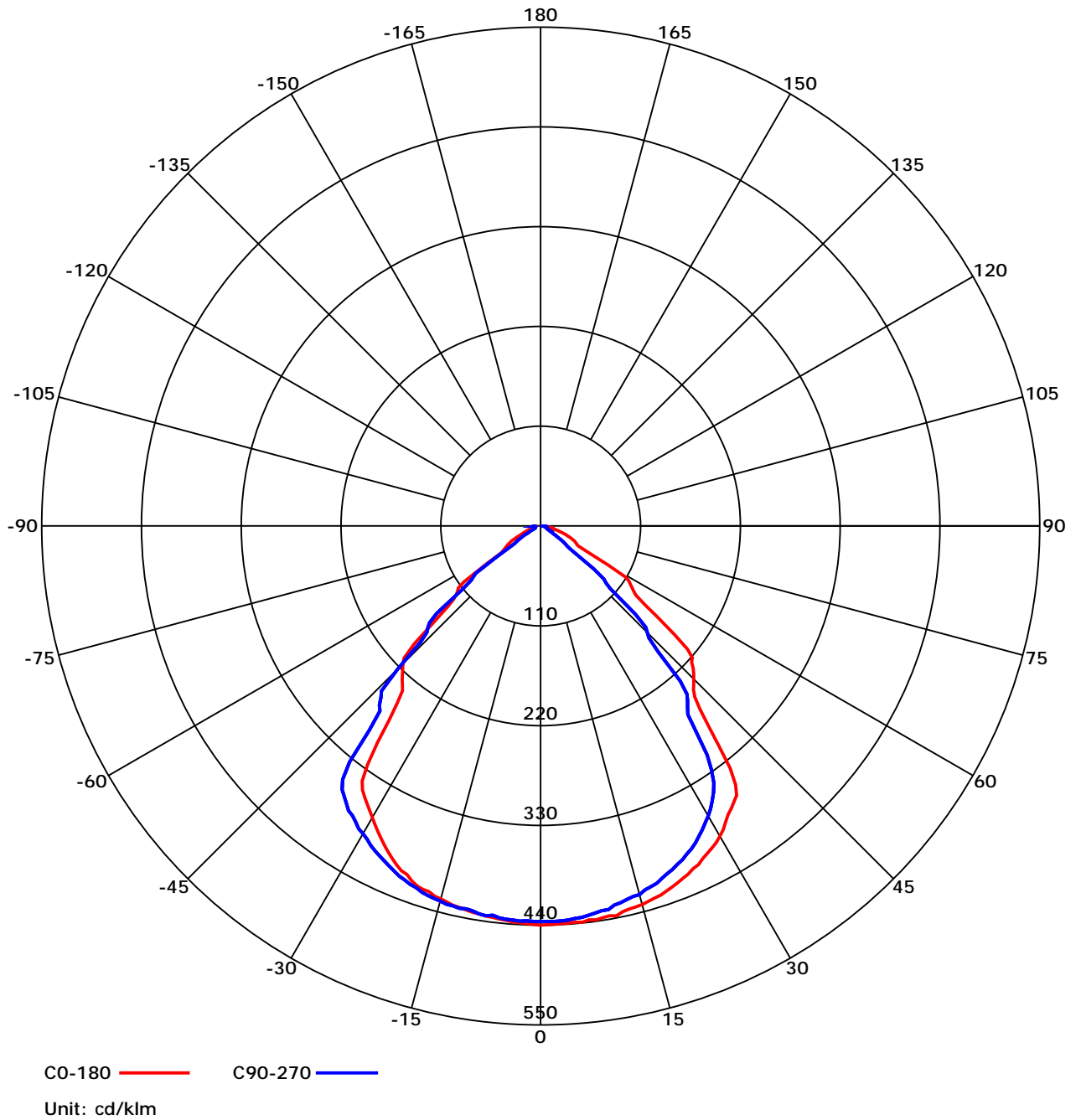
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 G Interval: 1.0 Deg
 Test System: Huipu CPM-1800B Goniophotometer
 Humidity: 1
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Luminous Intensity Distribution Curve



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
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 Temperature: 6.22
 Operators:
 Test Date: 2021/9/1 15:02:08

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

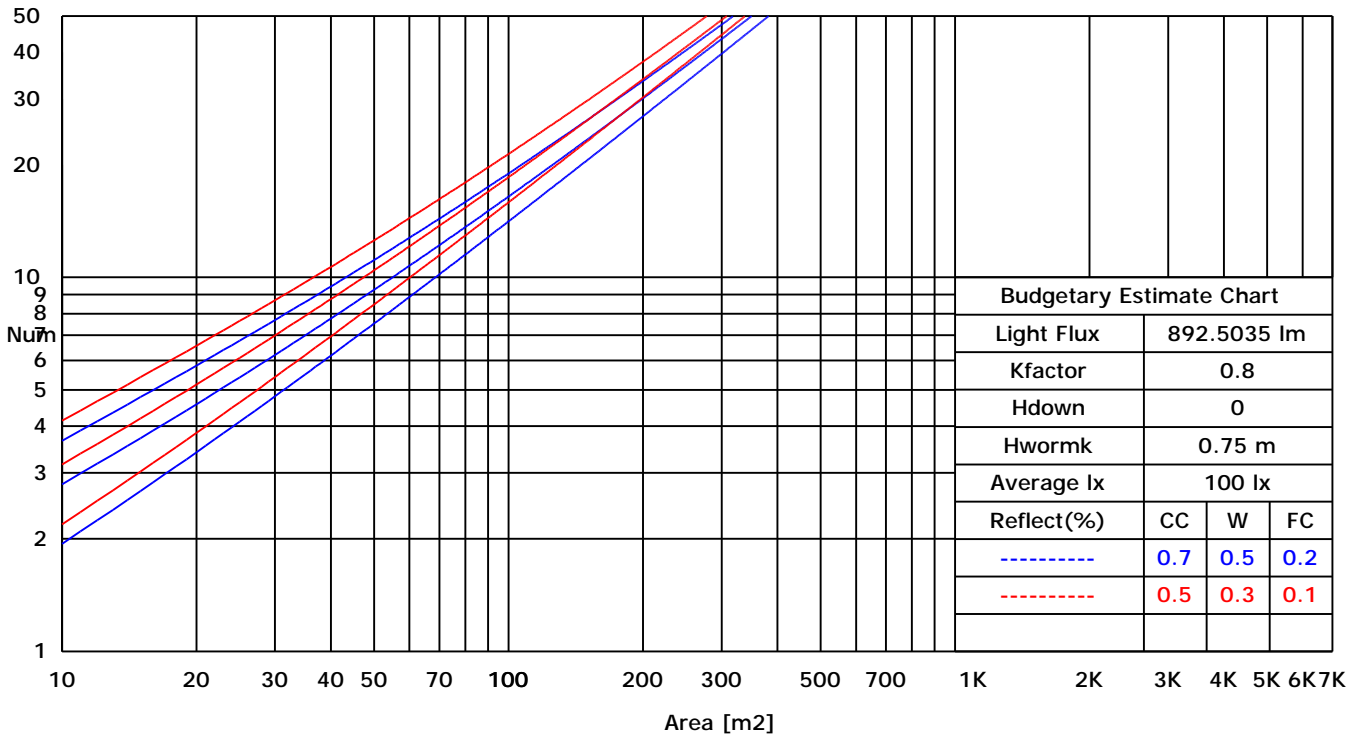
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UTILIZATION FACTORS TABLE

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	1.09	1.07	1.06	1.07	1.06	1.04	1.03	1.02	1.00	0.98	0.96	0.95	0.92	0.90	0.88	0.83
2	1.00	0.99	0.97	0.99	0.97	0.96	0.96	0.93	0.91	0.92	0.89	0.87	0.86	0.83	0.81	0.76
3	0.93	0.91	0.90	0.92	0.89	0.88	0.89	0.86	0.84	0.86	0.82	0.80	0.81	0.78	0.74	0.70
4	0.86	0.84	0.83	0.85	0.83	0.81	0.83	0.80	0.77	0.80	0.76	0.73	0.77	0.72	0.69	0.65
5	0.80	0.78	0.77	0.79	0.77	0.75	0.77	0.74	0.71	0.75	0.71	0.68	0.72	0.68	0.64	0.60
6	0.74	0.72	0.71	0.74	0.71	0.70	0.73	0.69	0.66	0.71	0.66	0.63	0.68	0.63	0.59	0.56
7	0.69	0.68	0.66	0.69	0.67	0.65	0.68	0.64	0.62	0.66	0.62	0.59	0.64	0.59	0.56	0.52
8	0.65	0.63	0.62	0.65	0.62	0.61	0.64	0.60	0.58	0.63	0.58	0.55	0.61	0.56	0.52	0.49
9	0.61	0.59	0.58	0.61	0.59	0.57	0.60	0.57	0.54	0.59	0.55	0.52	0.58	0.53	0.49	0.46
10	0.58	0.56	0.55	0.58	0.55	0.54	0.57	0.54	0.51	0.56	0.52	0.49	0.55	0.50	0.46	0.43

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



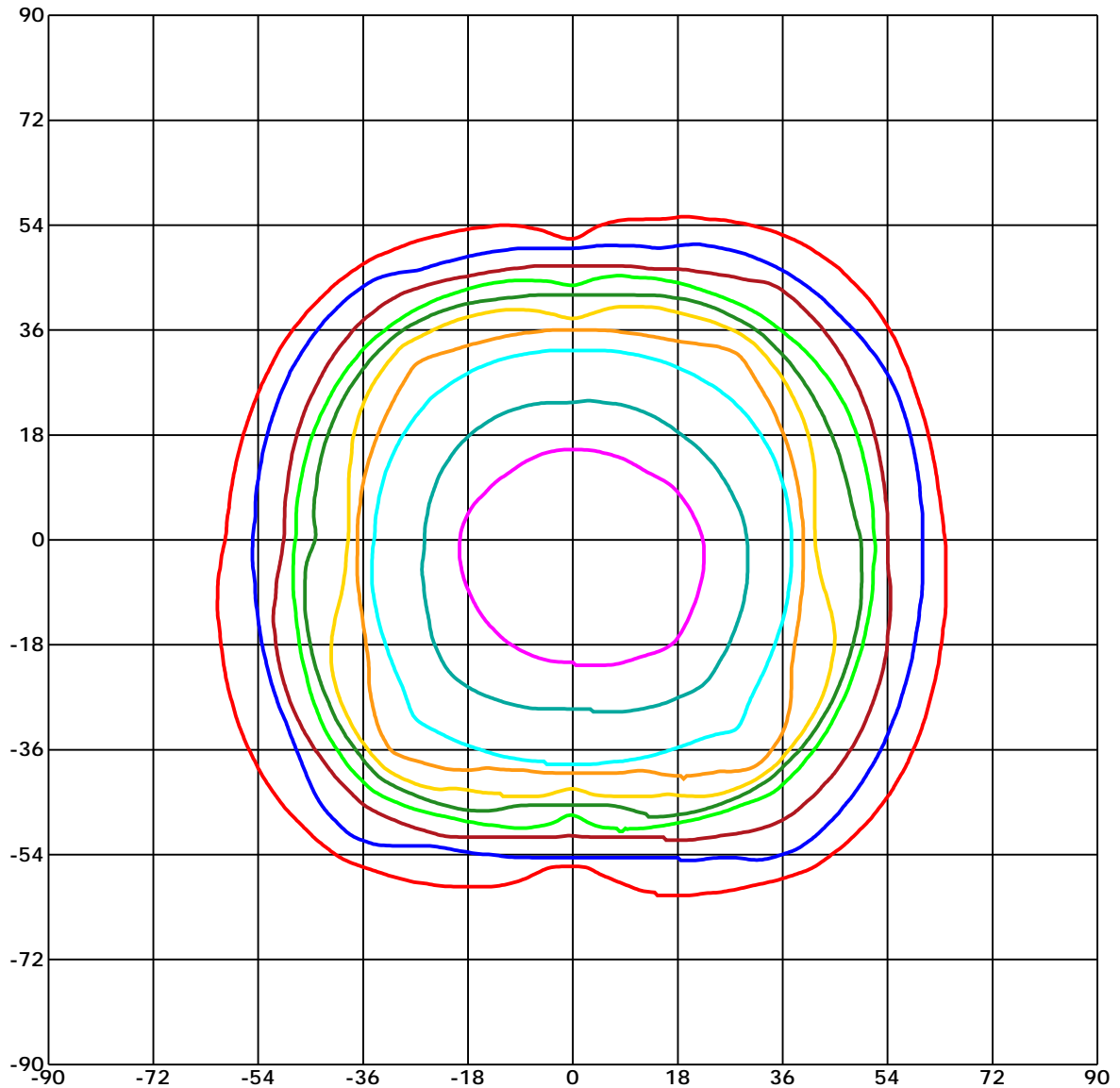
C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 6.22
 Operators:
 Test Date: 2021/9/1 15:02:08

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 15:02:08

ISOCANDELA DIAGRAM (RECTANGULAR)



Unit of intensity:cd $I_{max}(100\%)$: 440.158 cd

- | | |
|---------------------------|---------------------------|
| — 418.15(95% I_{max}) | — 220.079(50% I_{max}) |
| — 396.142(90% I_{max}) | — 176.063(40% I_{max}) |
| — 352.126(80% I_{max}) | — 132.047(30% I_{max}) |
| — 308.111(70% I_{max}) | — 88.032(20% I_{max}) |
| — 264.095(60% I_{max}) | — 44.016(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 15:02:08

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity: 1

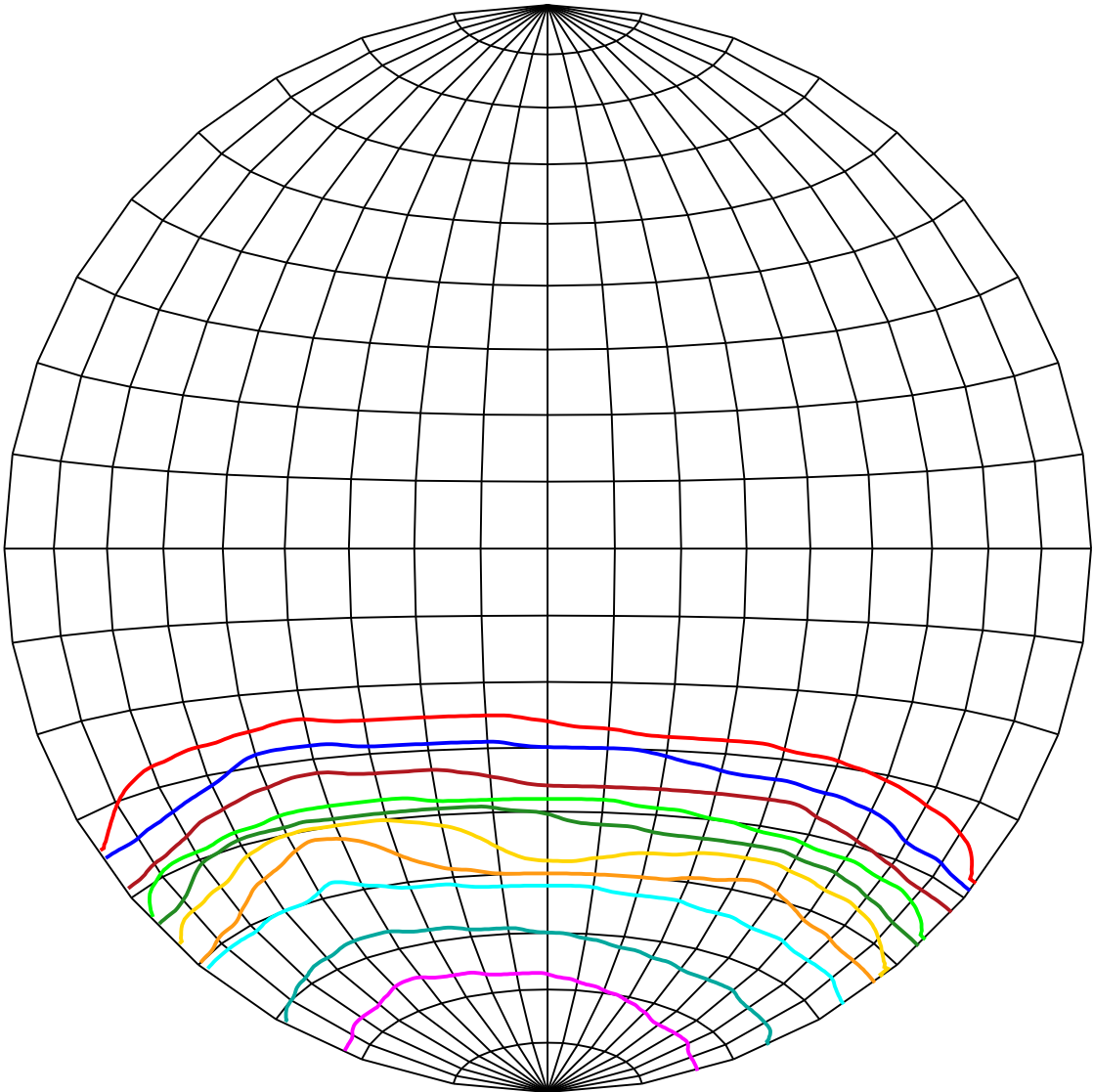
Test Distance: 6.22 m

Remarks:

Report No.:

Test Time: 2021/9/1 15:02:08

ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd I_{max}(100%): 440.158 cd

- | | |
|---------------------------------|---------------------------------|
| — 418.15(95%I _{max}) | — 220.079(50%I _{max}) |
| — 396.142(90%I _{max}) | — 176.063(40%I _{max}) |
| — 352.126(80%I _{max}) | — 132.047(30%I _{max}) |
| — 308.111(70%I _{max}) | — 88.032(20%I _{max}) |
| — 264.095(60%I _{max}) | — 44.016(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 15:02:08

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity: 1

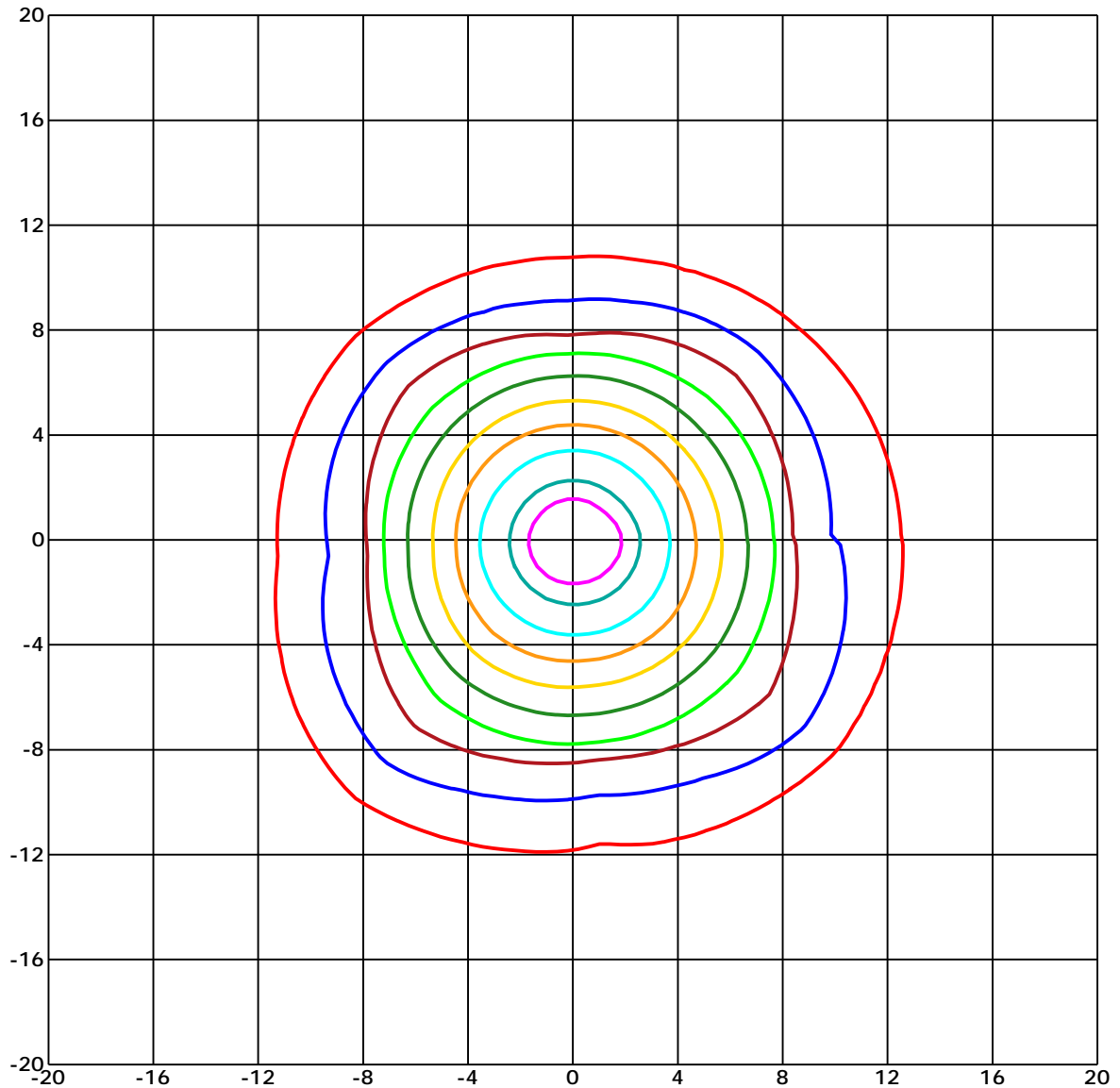
Test Distance: 6.22 m

Remarks:

Report No.:

Test Time: 2021/9/1 15:02:08

ISOLX DIAGRAM



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

- | | |
|------------------------------|------------------------------|
| — 4.182(1%E _{max}) | — 2.201(1%E _{max}) |
| — 3.961(1%E _{max}) | — 1.761(0%E _{max}) |
| — 3.521(1%E _{max}) | — 1.32(0%E _{max}) |
| — 3.081(1%E _{max}) | — 0.88(0%E _{max}) |
| — 2.641(1%E _{max}) | — 0.44(0%E _{max}) |

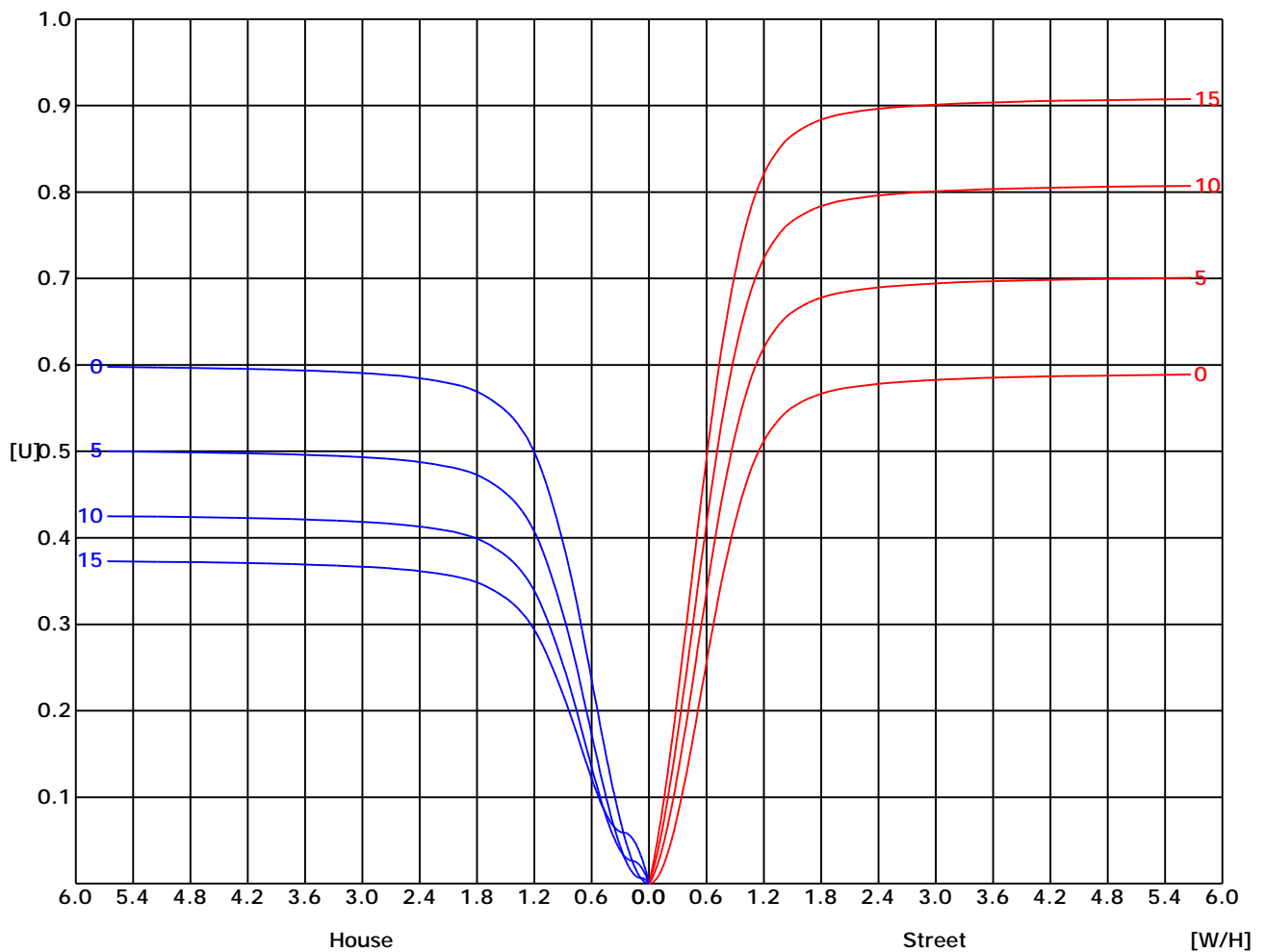
C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 6.22
 Operators:
 Test Date: 2021/9/1 15:02:08

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 15:02:08

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 15:02:08

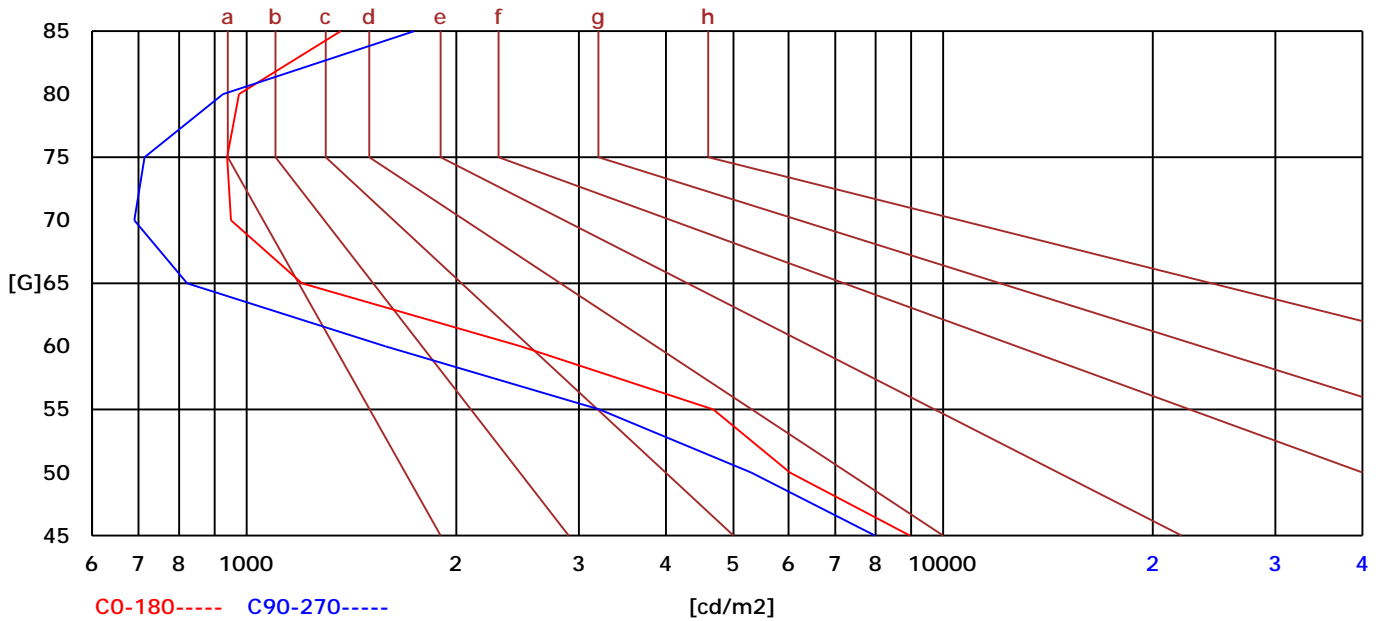
G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1800B Goniophotometer
 Humidity: 1
 Test Distance: 6.22 m
 Remarks:

Report No.:

Test Time: 2021/9/1 15:02:08

BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	8962	6023	4678	2478	1202	950	938	975	1365
C90	7979	5303	3211	1584	822	690	714	925	1742
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



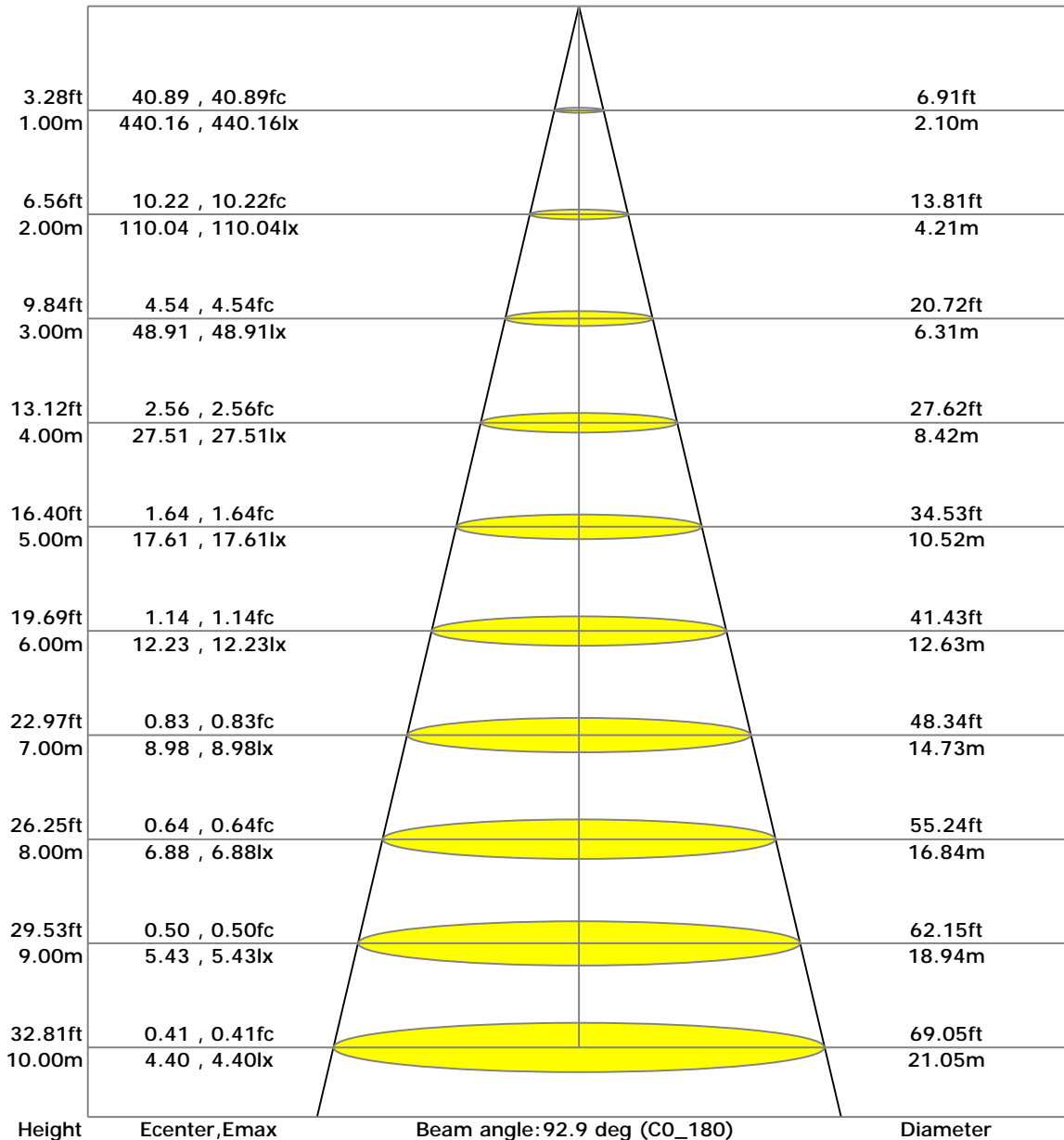
C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 6.22
 Operators:
 Test Date: 2021/9/1 15:02:08

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

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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 6.22
 Operators:
 Test Date: 2021/9/1 15:02:08

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1800B Goniophotometer
 Humidity: 1
 Test Distance: 6.22 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	16.77	16.83	16.97	17.02	17.26	15.22	15.28	15.42	15.47	15.71
	3H	16.73	16.79	16.94	16.99	17.23	15.20	15.26	15.41	15.45	15.70
	4H	16.71	16.77	16.92	16.97	17.22	15.18	15.24	15.39	15.44	15.69
	6H	16.69	16.74	16.90	16.94	17.20	15.16	15.22	15.38	15.42	15.67
	8H	16.67	16.73	16.89	16.93	17.19	15.15	15.21	15.37	15.41	15.66
	12H	16.66	16.72	16.88	16.92	17.18	15.13	15.19	15.36	15.40	15.65
4H	2H	17.24	17.30	17.46	17.50	17.75	15.31	15.37	15.52	15.57	15.81
	3H	17.23	17.29	17.45	17.49	17.75	15.32	15.38	15.54	15.59	15.84
	4H	17.21	17.27	17.44	17.48	17.74	15.32	15.37	15.55	15.59	15.84
	6H	17.19	17.24	17.42	17.46	17.72	15.31	15.36	15.54	15.58	15.84
	8H	17.17	17.22	17.41	17.45	17.71	15.30	15.35	15.54	15.57	15.84
	12H	17.16	17.20	17.40	17.43	17.70	15.28	15.33	15.53	15.56	15.83
8H	4H	17.45	17.50	17.67	17.71	17.96	15.41	15.47	15.63	15.67	15.92
	6H	17.49	17.53	17.74	17.77	18.04	15.51	15.55	15.76	15.79	16.07
	8H	17.48	17.52	17.74	17.76	18.04	15.51	15.55	15.77	15.80	16.08
	12H	17.46	17.50	17.73	17.76	18.04	15.51	15.55	15.78	15.80	16.08
12H	4H	17.60	17.65	17.85	17.88	18.15	15.58	15.63	15.83	15.86	16.13
	6H	17.62	17.67	17.89	17.91	18.19	15.63	15.67	15.89	15.91	16.19

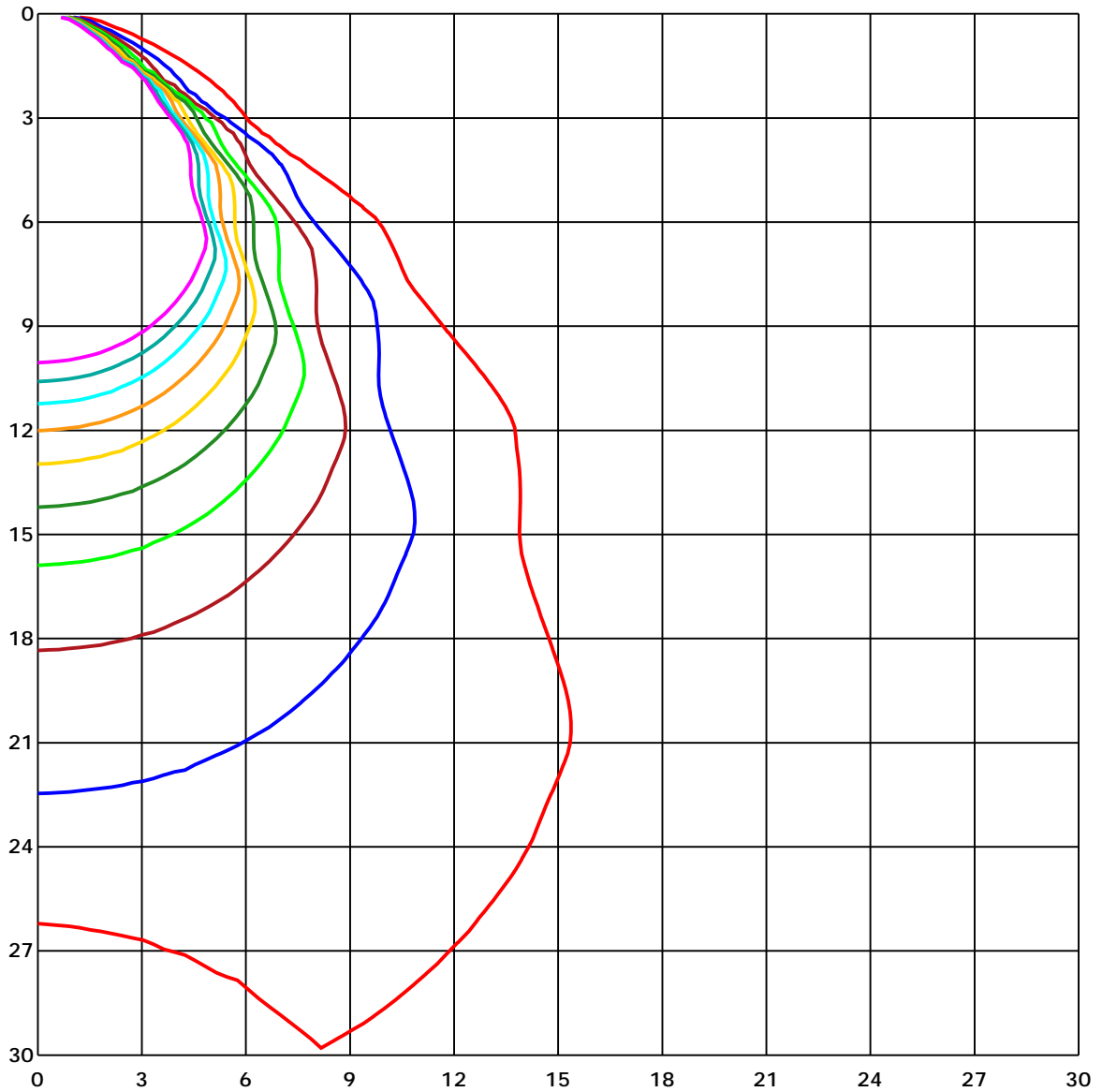
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 Test Date: 2021/9/1 15:02:08

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

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SPACE ISOLX DIAGRAM



Unit of illumination: lx

- | | |
|---------|---------|
| — 4.361 | — 2.181 |
| — 3.925 | — 1.744 |
| — 3.489 | — 1.308 |
| — 3.053 | — 0.872 |
| — 2.617 | — 0.436 |

C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 6.22
 Operators:
 Test Date: 2021/9/1 15:02:08

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

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Test Time: 2021/9/1 15:02:08

LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma/C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	440.16	434.93	436.33	437.33	440.16	434.93	436.33	437.33	440.16	
G1	439.54	436.37	436.02	435.52	439.42	434.82	436.02	437.76	439.54	
G2	439.5	433.77	436.29	435.59	438.57	434.43	435.55	436.25	439.5	
G3	438.88	434.01	436.1	437.53	438.22	434.9	436.17	437.3	438.88	
G4	438.8	433.46	435.67	436.06	437.57	434.28	435.59	437.26	438.8	
G5	438.69	432.85	434.28	435.21	436.6	433.93	435.36	437.3	438.69	
G6	439.15	432.23	433.81	434.39	435.82	434.28	434.55	436.02	439.15	
G7	437.6	431.1	432.46	432.61	434.86	433.04	432.3	435.71	437.6	
G8	438.61	431.38	430.91	431.49	434.39	432.96	433.97	435.75	438.61	
G9	437.37	429.83	429.4	429.67	433.19	432.96	433.16	434.43	437.37	
G10	436.29	428.9	429.52	428.51	432.58	431.96	430.95	434.35	436.29	
G11	437.88	427.31	425.84	426.97	431.14	431.26	430.06	434.35	437.88	
G12	434.86	426.08	424.49	425.8	430.06	430.49	431.03	433.54	434.86	
G13	433.58	424.41	422.44	424.57	429.29	429.05	429.87	433.04	433.58	
G14	432.88	421.86	420.97	422.83	427.39	428.36	429.71	431.96	432.88	
G15	432.15	421.39	420.78	419.58	425.8	426.15	428.16	430.68	432.15	
G16	430.45	419.3	417.41	417.95	424.68	425.03	426.97	429.79	430.45	
G17	429.05	418.03	415.71	415.82	421.59	423.14	425.92	429.25	429.05	
G18	427.97	416.06	414.2	414.04	421.2	421.97	424.61	427.78	427.97	
G19	425.8	414.28	410.72	411.8	419.38	420.81	421.86	426.42	425.8	
G20	423.6	411.53	408.05	409.83	416.25	418.53	420.7	426.15	423.6	
G21	421.28	408.98	405.53	407.5	411.68	417.37	418.14	423.37	421.28	
G22	418.84	406.85	402.32	404.95	409.98	415.47	416.21	422.94	418.84	
G23	416.67	404.06	399.61	402.32	406.07	414.62	413.19	420.12	416.67	
G24	413.42	401.28	395.9	400.08	401.97	412.3	410.45	419.23	413.42	
G25	411.8	398.45	392.92	396.48	397.21	410.29	407.62	417.14	411.8	
G26	407.93	394.58	388.9	393.38	392.18	410.1	404.95	415.13	407.93	
G27	405.11	390.95	384.21	388.86	387.23	407.12	401.97	412.92	405.11	
G28	401.9	387.39	379.22	385.34	381.89	404.41	399.11	411.14	401.9	
G29	399.23	383.79	374.0	379.61	376.71	403.67	394.7	408.28	399.23	
G30	395.05	378.95	369.28	375.16	371.29	399.26	391.76	405.14	395.05	
G31	390.83	375.7	363.44	370.05	366.19	394.89	389.48	402.28	390.83	
G32	384.68	369.71	357.09	363.83	361.04	392.26	384.99	399.11	384.68	
G33	379.46	364.79	350.01	358.06	356.32	388.43	381.08	395.98	379.46	
G34	375.7	359.07	341.35	350.59	351.29	384.14	378.6	391.8	375.7	
G35	371.41	353.3	328.12	344.48	343.13	380.0	373.46	386.46	371.41	
G36	367.31	346.92	311.98	336.36	324.94	376.17	368.51	384.14	367.31	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

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Operators:

Test Date: 2021/9/1 15:02:08

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity: 1

Test Distance: 6.22 m

Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

GammaC	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	356.98	340.26	285.71	328.62	298.91	371.45	363.71	377.25	356.98	
G38	339.18	332.14	263.43	321.31	271.09	365.95	354.66	373.42	339.18	
G39	312.25	325.49	257.12	314.0	250.89	360.19	334.62	367.85	312.25	
G40	287.65	319.57	251.67	306.88	237.24	353.84	293.72	362.82	287.65	
G41	267.49	313.84	245.94	297.01	232.52	347.58	270.16	357.98	267.49	
G42	253.68	306.95	230.08	282.85	228.03	341.19	265.94	352.95	253.68	
G43	246.83	296.24	189.57	267.61	223.43	334.77	257.97	347.5	246.83	
G44	242.81	276.39	171.78	250.82	219.09	328.31	252.52	342.9	242.81	
G45	238.63	253.49	166.36	225.67	214.53	321.66	222.54	338.18	238.63	
G46	234.57	227.99	160.91	193.4	209.46	311.79	184.47	333.26	234.57	
G47	230.04	206.79	142.76	173.05	190.5	305.33	171.78	326.99	230.04	
G48	223.97	188.1	103.38	158.97	158.78	292.45	167.25	313.96	223.97	
G49	221.72	168.76	95.6	147.48	135.18	263.0	162.41	293.14	221.72	
G50	211.2	154.87	91.03	136.34	125.0	232.36	149.57	264.13	211.2	
G51	189.84	150.96	75.44	110.18	119.82	212.21	111.93	221.22	189.84	
G52	163.3	145.51	40.2	100.4	116.1	192.24	96.8	190.46	163.3	
G53	143.61	139.32	36.64	97.07	113.74	173.59	92.7	175.8	143.61	
G54	129.41	127.4	33.77	90.34	104.77	158.82	88.56	167.83	129.41	
G55	125.0	107.32	29.75	73.66	74.4	137.69	60.55	161.79	125.0	
G56	121.6	89.72	26.54	52.58	52.04	116.49	34.82	154.64	121.6	
G57	117.92	73.93	20.93	42.67	48.32	107.52	32.27	136.53	117.92	
G58	114.4	64.53	19.58	38.61	46.5	102.52	29.67	119.59	114.4	
G59	109.22	56.76	16.17	35.44	44.8	97.73	26.08	109.99	109.22	
G60	85.97	49.56	14.2	31.69	42.87	88.91	21.9	105.31	85.97	
G61	60.12	42.02	12.5	26.62	40.35	75.29	18.07	99.27	60.12	
G62	47.05	37.33	10.95	20.0	37.57	61.55	14.24	86.55	47.05	
G63	45.03	32.23	9.67	16.83	35.67	47.24	13.66	66.0	45.03	
G64	43.52	24.88	9.94	15.17	31.53	40.47	11.92	51.61	43.52	
G65	41.98	20.31	8.24	13.89	28.59	37.3	10.29	44.49	41.98	
G66	40.58	18.49	9.01	12.65	25.73	34.05	8.86	41.51	40.58	
G67	38.65	16.98	7.47	11.61	23.06	31.76	7.54	38.77	38.65	
G68	36.37	15.48	7.47	10.76	20.78	26.19	6.89	36.17	36.37	
G69	33.85	14.12	7.35	10.02	18.88	20.12	6.46	33.08	33.85	
G70	31.3	13.0	7.23	9.44	17.91	17.49	6.29	25.88	31.3	
G71	29.64	11.99	7.39	8.74	16.25	16.25	6.11	19.15	29.64	
G72	25.84	12.23	7.23	8.36	14.62	15.01	6.15	19.07	25.84	
G73	24.64	9.98	7.31	7.97	13.77	13.85	6.15	16.13	24.64	

C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 6.22
 Operators:
 Test Date: 2021/9/1 15:02:08

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

