

Report No.:

Test Time: 2020/3/2 11:09:01

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: 0
Luminaire Type: RP-8'-24W-CCT-4000K
Lamp Type:
Luminous Width: 0 mm
Luminous Length: 0 mm
Luminous Height: 0 mm

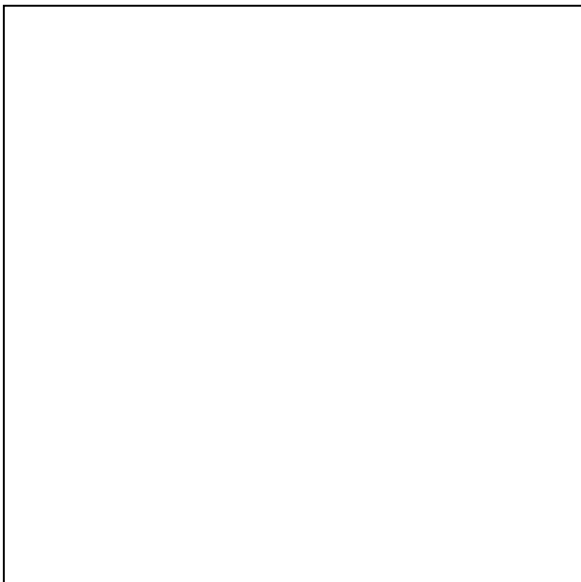
Voltage(V): 230.09 V
Current(A): 0.1020 A
Power(W): 22.88 W
Power Factor: 0.9740
Lamp Luminous Flux: 2268.46

Photometric Results

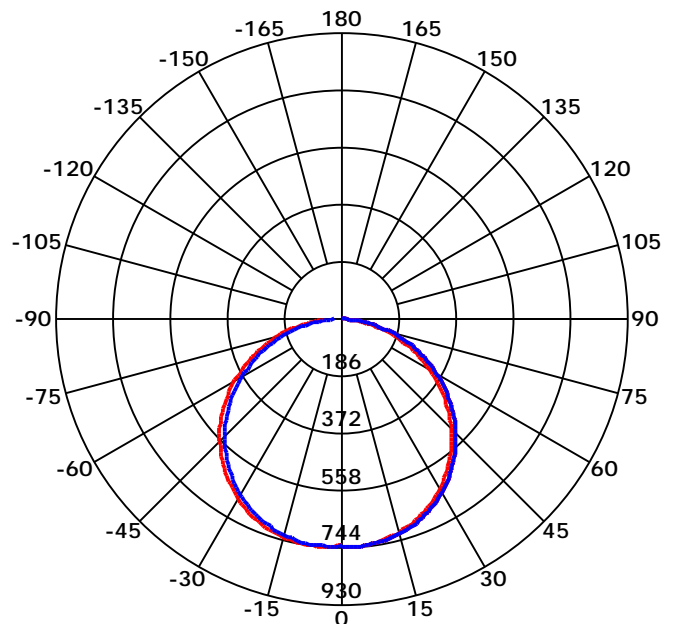
CIE Class: Direct
Luminaire Luminous Flux: 2268.459
Downward Ratio: 0.04%
Luminaire Efficacy Rating(LER): 99.15 lm/W
Beam Angle(50%) C0-180,C90-270: 118.9,118.8
Field Angle(10%) C0-180,C90-270: 167.4,166.3

Max. Intensity: 743.70 cd
Max.Intensity Angle: C=0 Gamma=1
Upward Ratio: 99.96%
Efficacy: 100.00%
Center Intensity: 743.62 cd

Picture of Luminaire



Luminous Intensity Distribution Curve



C0-180 ——— C90-270 ———

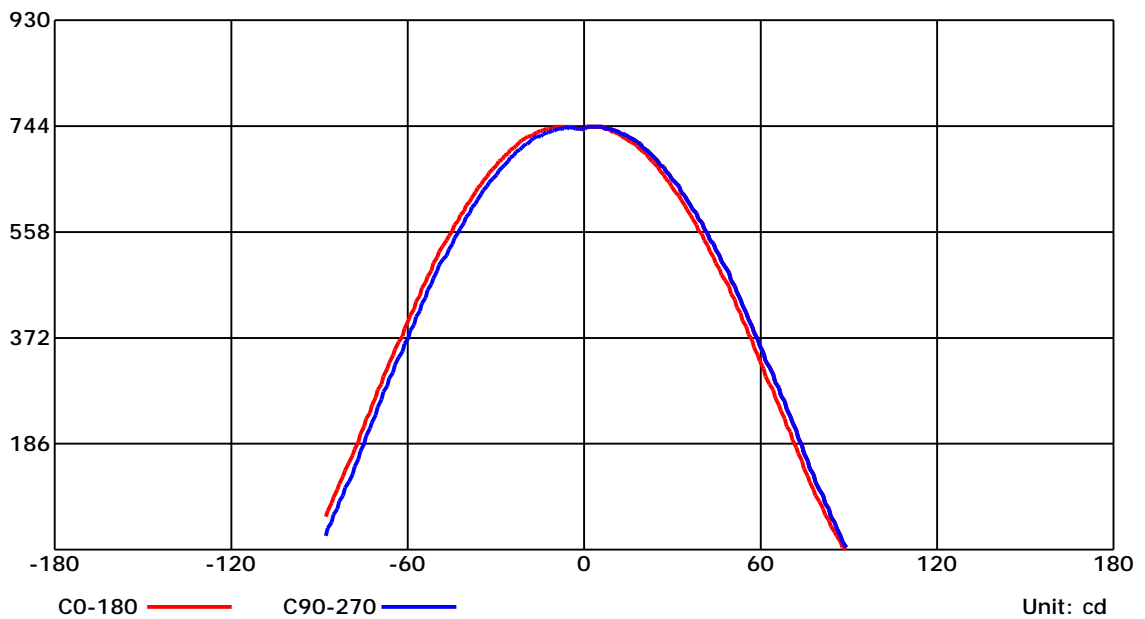
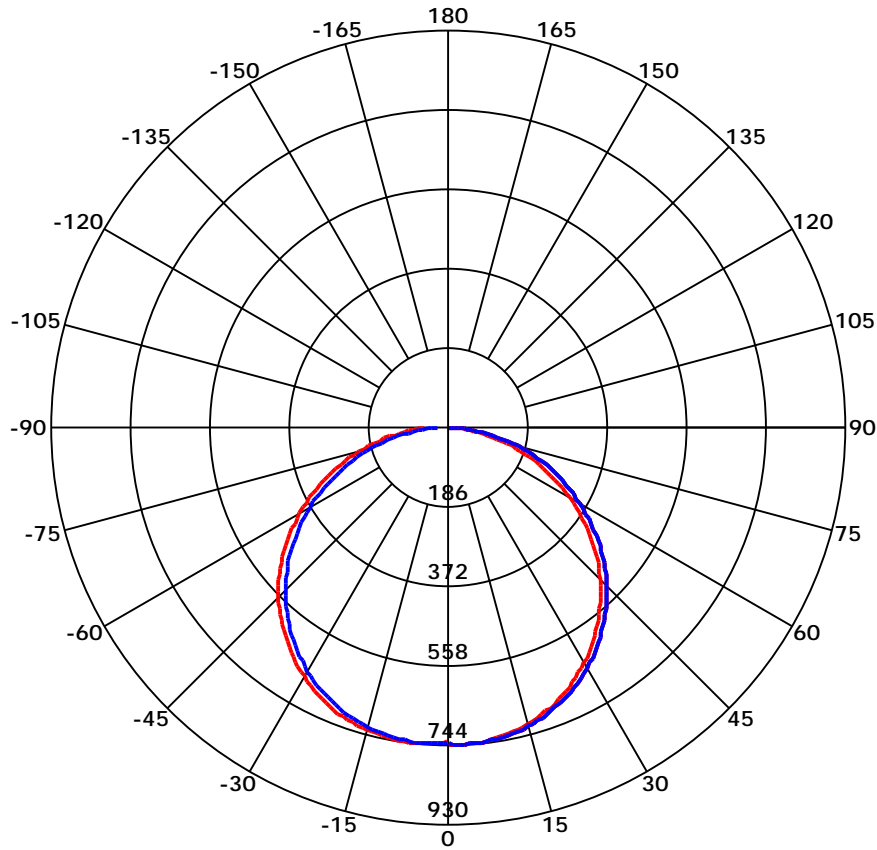
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2020/3/2 11:09:01

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1800B Goniophotometer
Humidity: 25
Test Distance: 6.2 m
Remarks:

Report No.:

Test Time: 2020/3/2 11:09:01

Luminous Intensity Distribution Curve



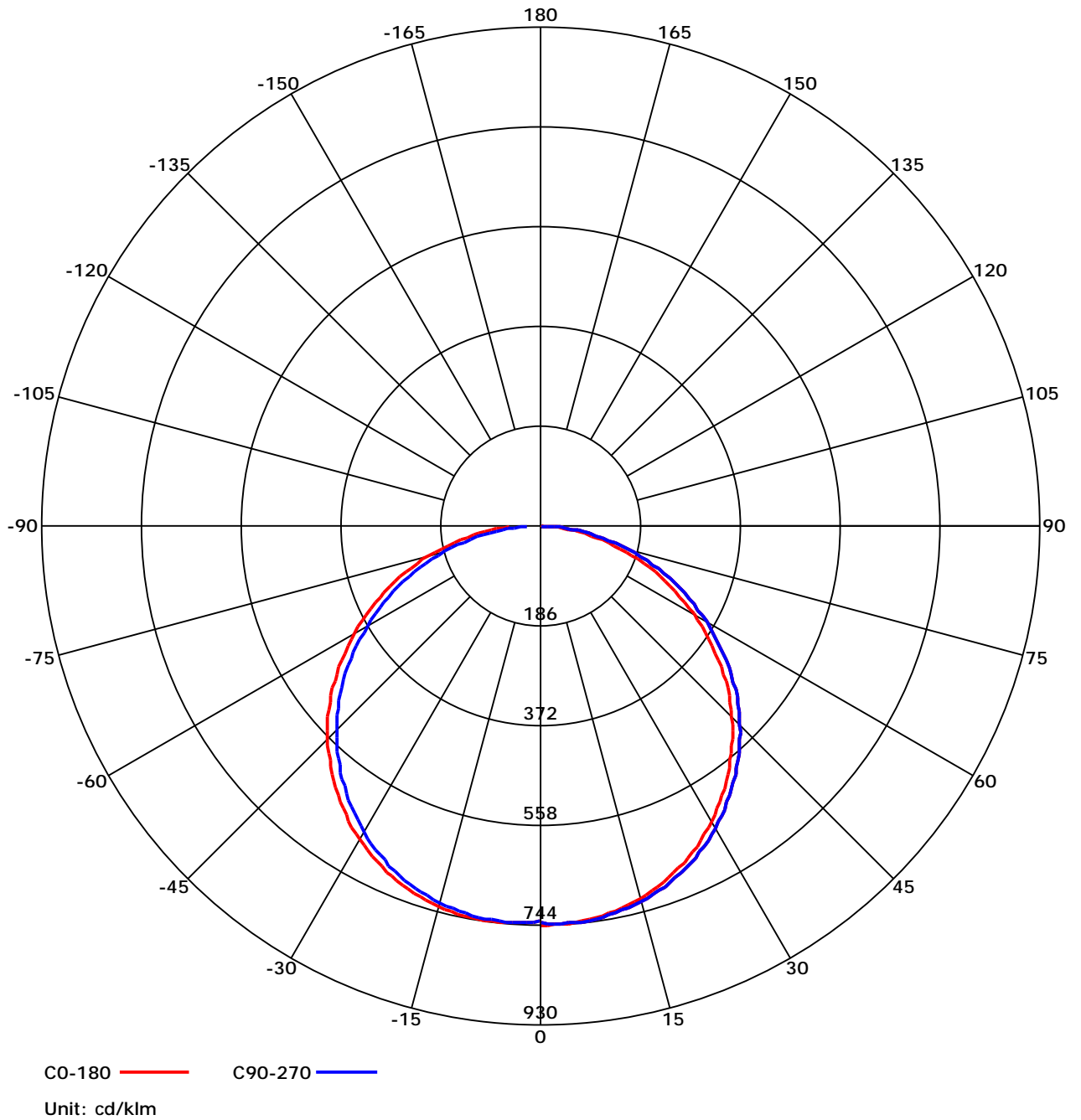
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2020/3/2 11:09:01

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1800B Goniophotometer
Humidity: 25
Test Distance: 6.2 m
Remarks:

Report No.:

Test Time: 2020/3/2 11:09:01

Luminous Intensity Distribution Curve



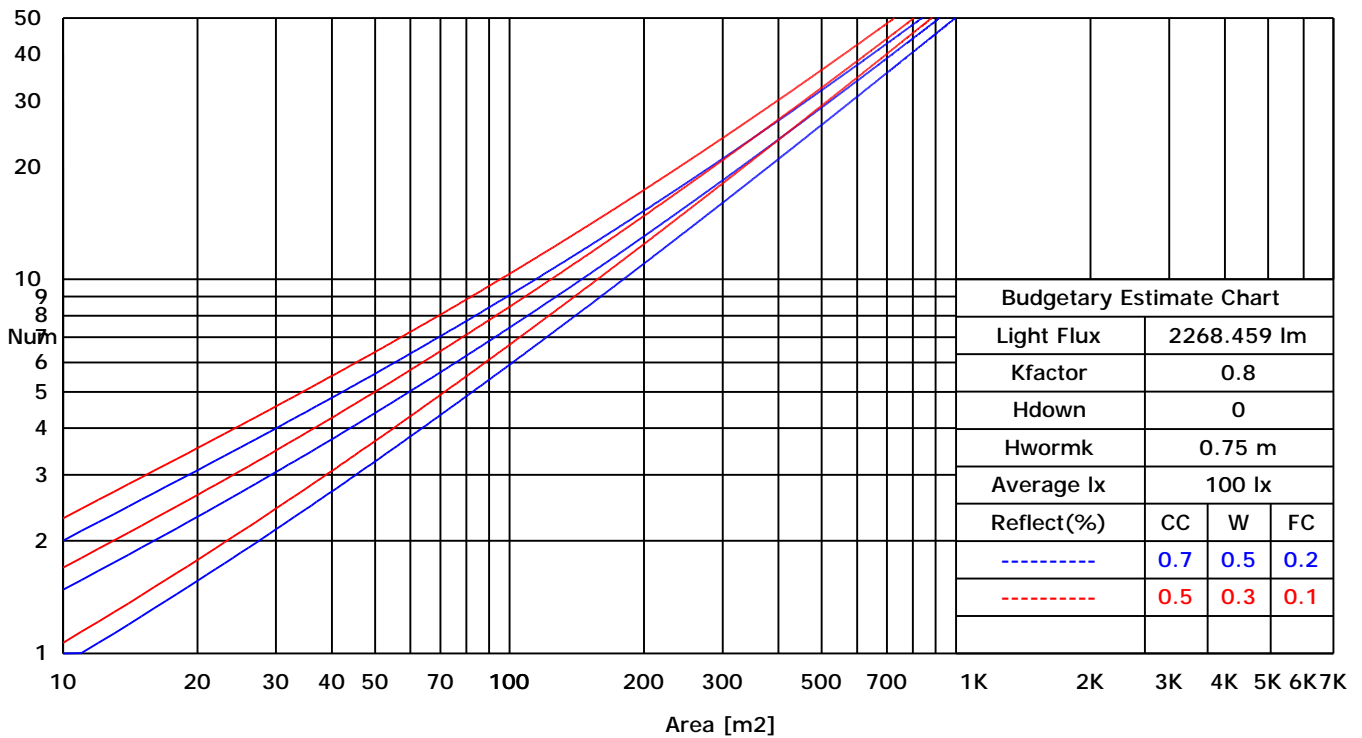
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2020/3/2 11:09:01

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1800B Goniophotometer
Humidity: 25
Test Distance: 6.2 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	1.03	1.02	1.01	0.99	0.98	0.96	0.94	0.92	0.90	0.88	0.86	0.81
2	0.94	0.92	0.90	0.93	0.91	0.89	0.90	0.87	0.85	0.87	0.83	0.80	0.82	0.78	0.75	0.70
3	0.83	0.81	0.79	0.83	0.80	0.78	0.81	0.77	0.74	0.78	0.74	0.71	0.75	0.70	0.66	0.62
4	0.74	0.72	0.70	0.74	0.71	0.69	0.73	0.69	0.66	0.71	0.66	0.63	0.68	0.63	0.59	0.55
5	0.67	0.64	0.63	0.67	0.64	0.61	0.66	0.62	0.59	0.65	0.60	0.56	0.63	0.57	0.53	0.49
6	0.60	0.58	0.57	0.61	0.57	0.55	0.61	0.56	0.53	0.60	0.54	0.50	0.58	0.52	0.48	0.44
7	0.55	0.53	0.51	0.56	0.52	0.50	0.56	0.51	0.48	0.55	0.50	0.46	0.54	0.48	0.44	0.40
8	0.51	0.48	0.47	0.51	0.48	0.46	0.52	0.47	0.44	0.51	0.46	0.42	0.51	0.45	0.40	0.37
9	0.47	0.45	0.43	0.47	0.44	0.43	0.48	0.44	0.41	0.48	0.43	0.39	0.48	0.41	0.37	0.34
10	0.44	0.42	0.40	0.44	0.41	0.39	0.45	0.41	0.38	0.45	0.40	0.36	0.45	0.39	0.34	0.31

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2020/3/2 11:09:01

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

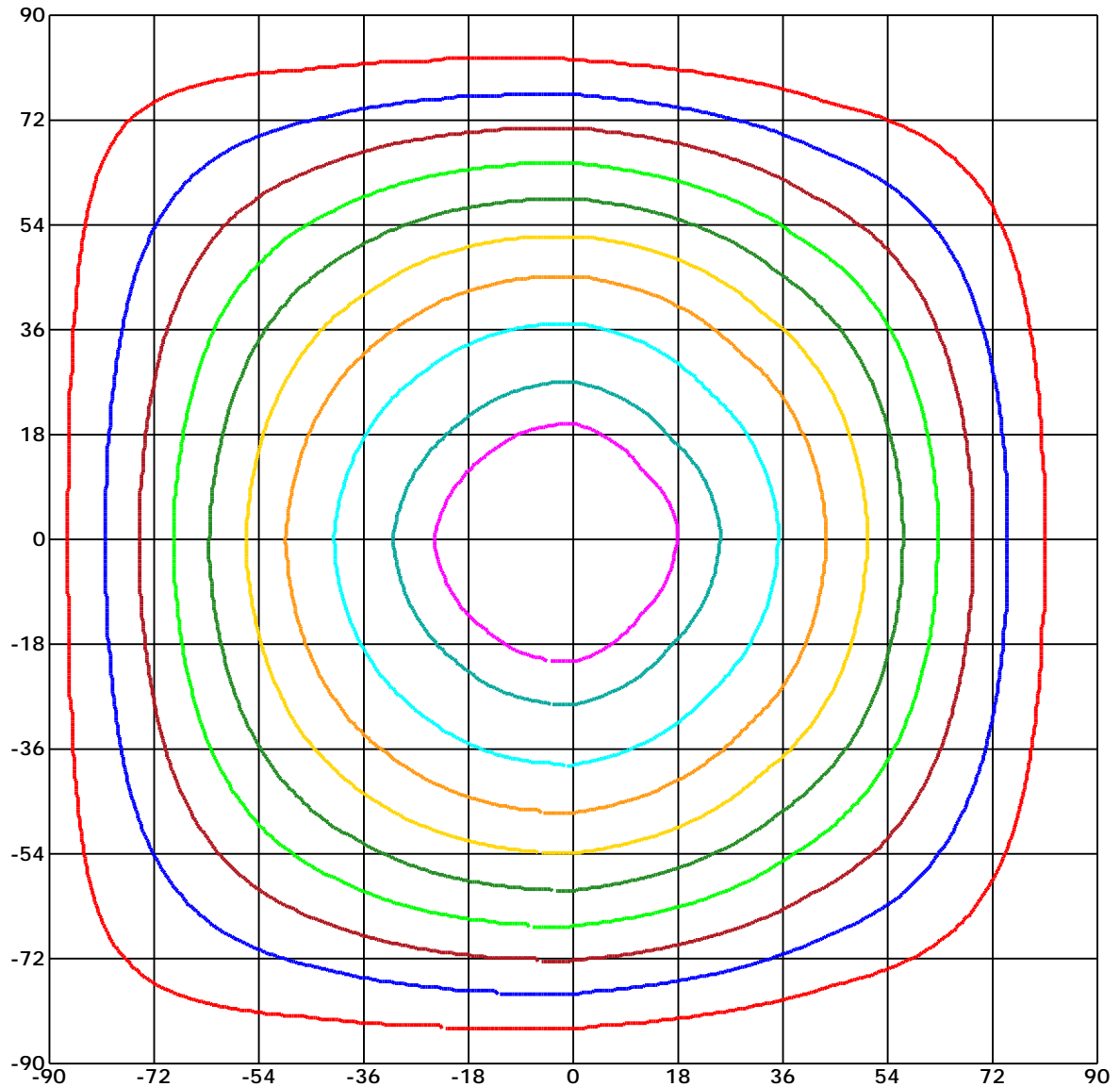
Test System: Huipu CPM-1800B Goniophotometer

Humidity: 25

Test Distance: 6.2 m

Remarks:

ISOCANDELA DIAGRAM (RECTANGULAR)



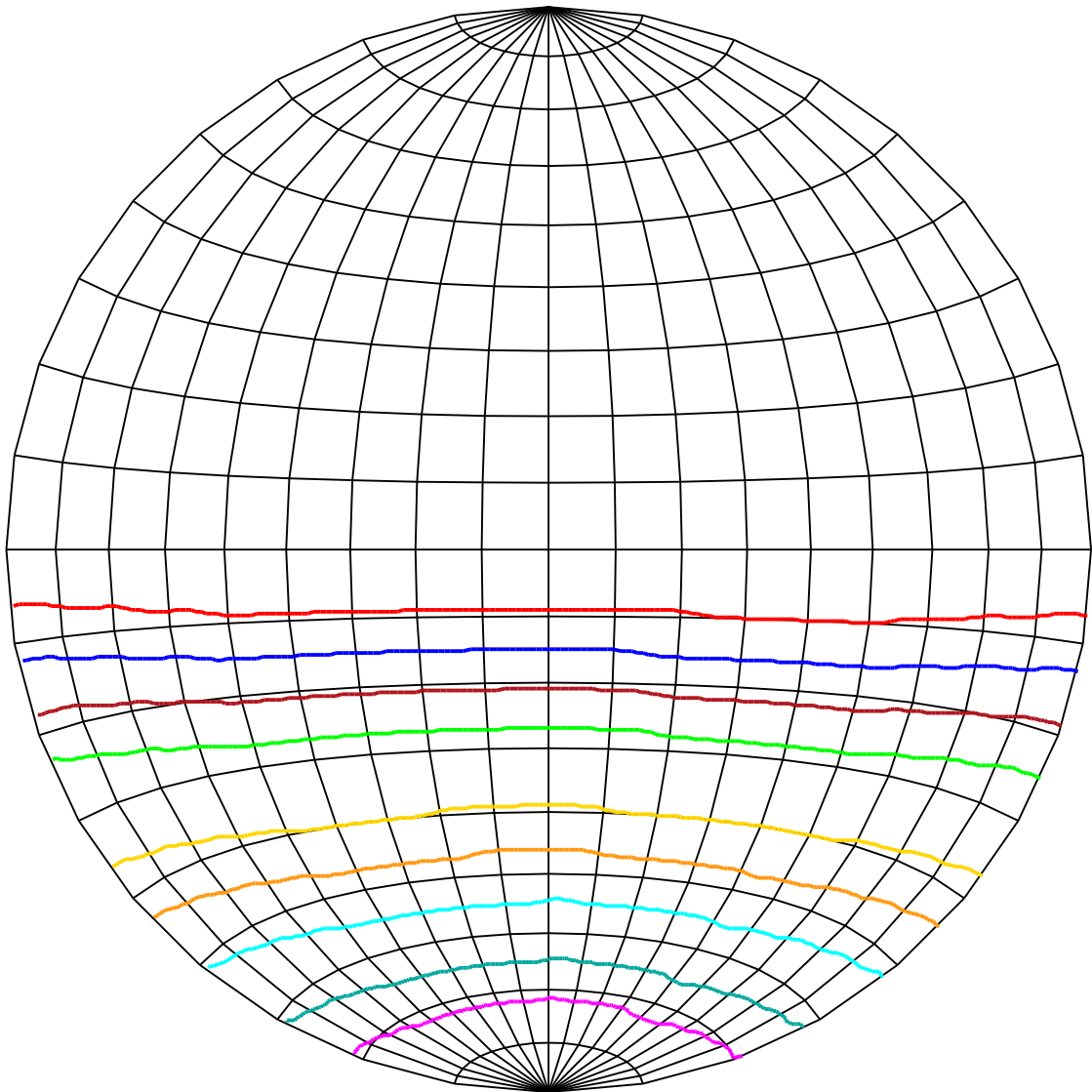
Unit of intensity:cd I_{max}(100%): 743.699 cd

- | | |
|-------------------------------|-------------------------------|
| 706.514(95%I _{max}) | 371.849(50%I _{max}) |
| 669.329(90%I _{max}) | 297.48(40%I _{max}) |
| 594.959(80%I _{max}) | 223.11(30%I _{max}) |
| 520.589(70%I _{max}) | 148.74(20%I _{max}) |
| 446.219(60%I _{max}) | 74.37(10%I _{max}) |

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2020/3/2 11:09:01

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1800B Goniophotometer
Humidity: 25
Test Distance: 6.2 m
Remarks:

ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd I_{max}(100%): 743.699 cd

706.514(95%I_{max})

371.849(50%I_{max})

669.329(90%I_{max})

297.48(40%I_{max})

594.959(80%I_{max})

223.11(30%I_{max})

520.589(70%I_{max})

148.74(20%I_{max})

446.219(60%I_{max})

74.37(10%I_{max})

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2020/3/2 11:09:01

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity: 25

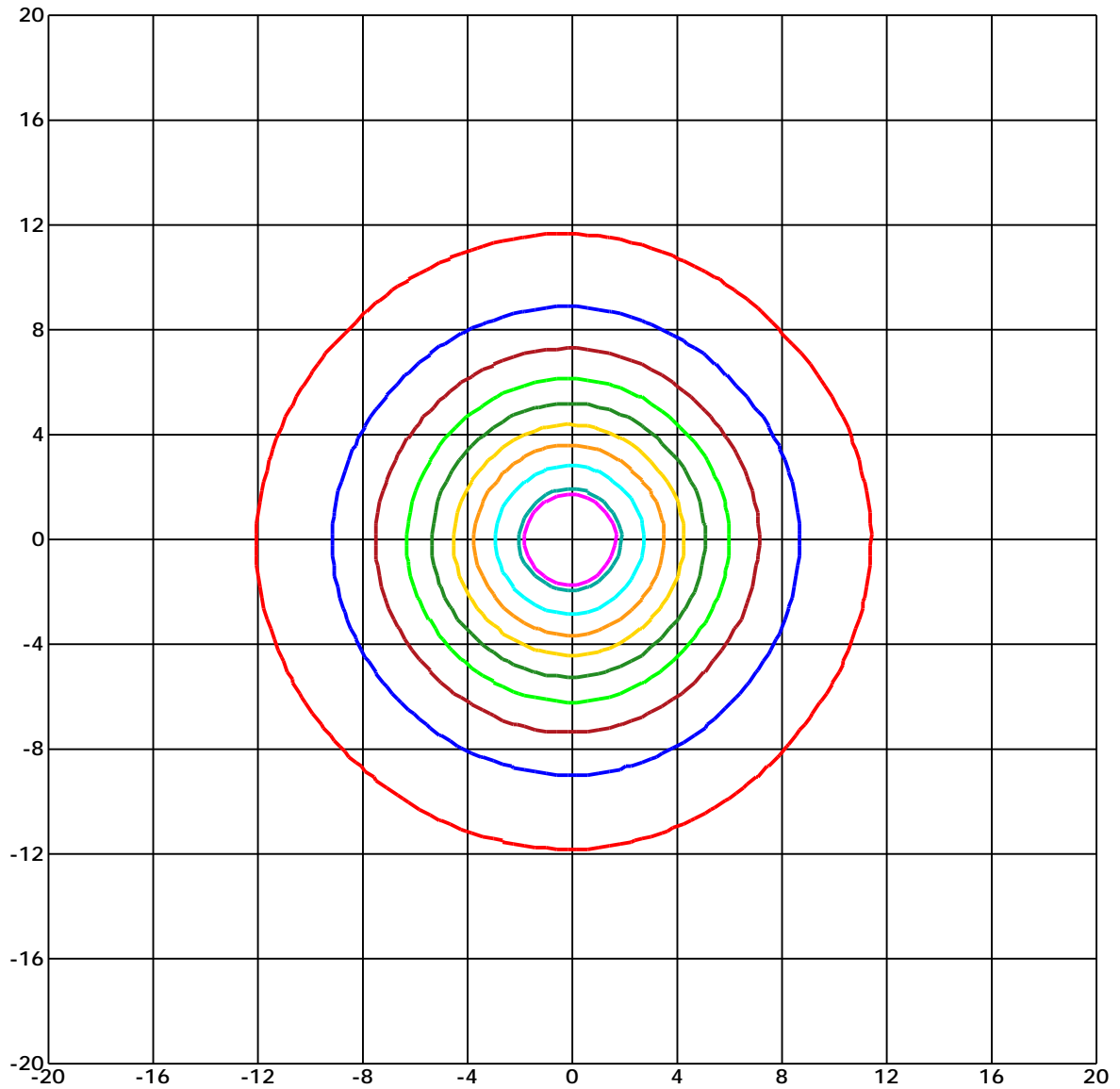
Test Distance: 6.2 m

Remarks:

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ISOLX DIAGRAM



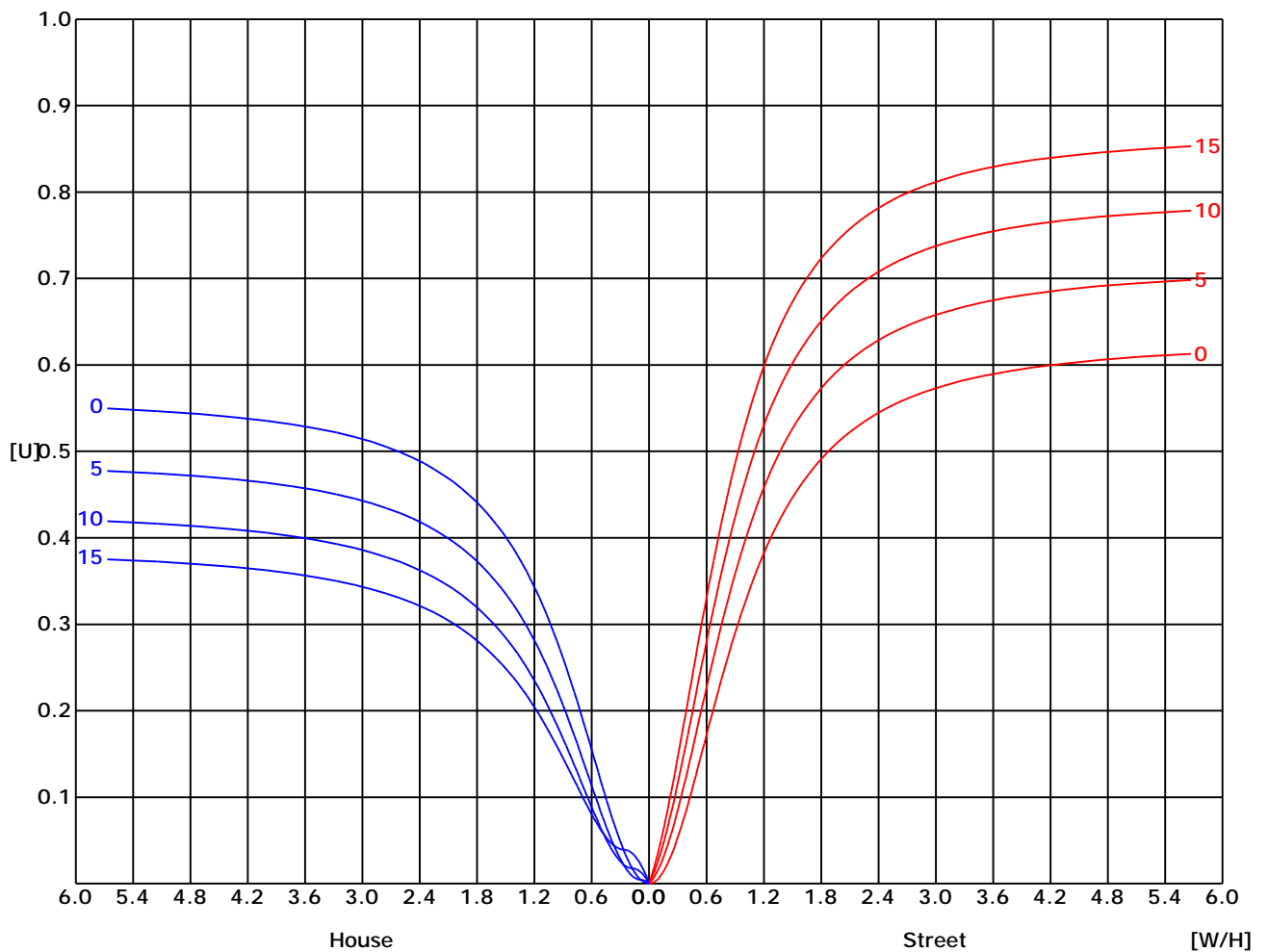
Unit of illumination: lx Height of plane: 8.0(m)/26.25(ft)

10.691(1%E _{max})	5.81(1%E _{max})
10.458(1%E _{max})	4.648(1%E _{max})
9.296(1%E _{max})	3.486(0%E _{max})
8.134(1%E _{max})	2.324(0%E _{max})
6.972(1%E _{max})	1.162(0%E _{max})

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2020/3/2 11:09:01

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1800B Goniophotometer
Humidity: 25
Test Distance: 6.2 m
Remarks:

UTILIZATION FACTOR DIAGRAM (ROAD)

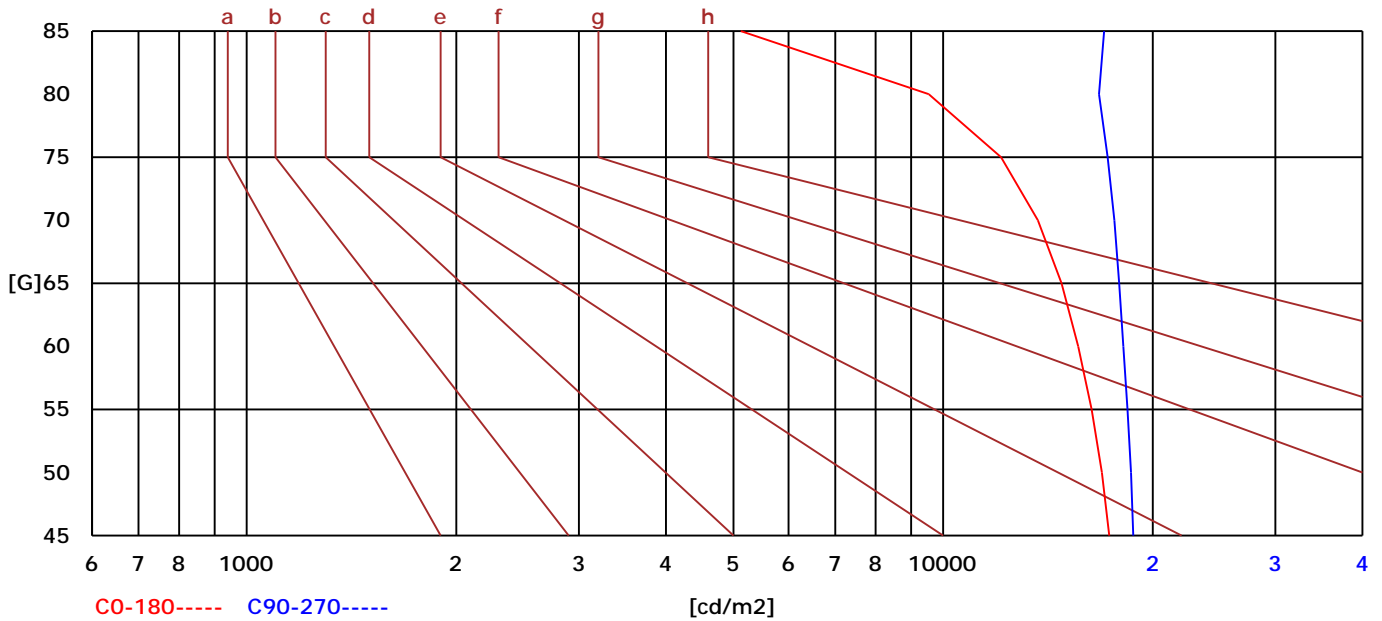


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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	17327	16899	16331	15628	14787	13675	12112	9535	5127
C90	18756	18619	18396	18134	17903	17612	17225	16741	17036
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



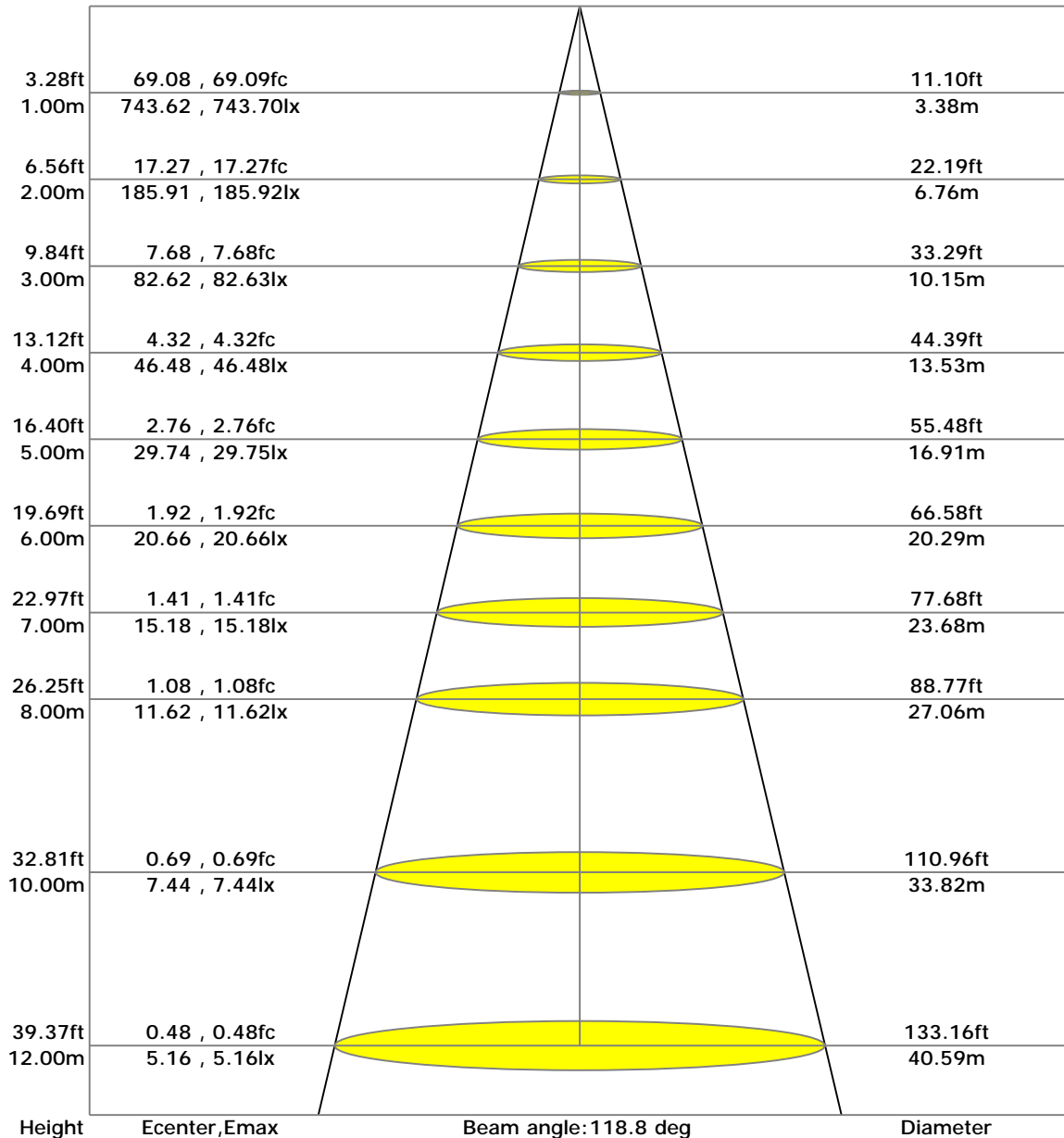
C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2020/3/2 11:09:01

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1800B Goniophotometer
 Humidity: 25
 Test Distance: 6.2 m
 Remarks:

Report No.:

Test Time: 2020/3/2 11:09:01

LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2020/3/2 11:09:01

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity: 25

Test Distance: 6.2 m

Remarks:

Report No.:

Test Time: 2020/3/2 11:09:01

UGR(Unified Glare Rating) TABLE

RHOCC	70	70	50	50	30	70	70	50	50	30
RHOW	70	70	50	50	30	70	70	50	50	30
RHOF	20	20	20	20	20	20	20	20	20	20
Room Size X Y	Viewed Endwise					Viewed Crosswise				
2H 2H	18.80	18.88	19.00	19.07	19.31	18.98	19.06	19.18	19.25	19.49
3H	18.94	19.02	19.15	19.21	19.46	19.09	19.17	19.30	19.37	19.61
4H	18.95	19.03	19.17	19.23	19.48	19.10	19.18	19.31	19.37	19.62
6H	18.94	19.01	19.16	19.21	19.47	19.08	19.16	19.30	19.36	19.61
8H	18.92	18.99	19.14	19.20	19.45	19.07	19.14	19.29	19.34	19.60
12H	18.91	18.98	19.13	19.18	19.44	19.05	19.12	19.27	19.33	19.58
4H 2H	21.29	21.36	21.50	21.56	21.81	21.71	21.78	21.92	21.98	22.23
3H	21.54	21.61	21.76	21.81	22.07	21.93	22.00	22.15	22.21	22.46
4H	21.59	21.66	21.82	21.87	22.13	21.97	22.04	22.20	22.25	22.51
6H	21.60	21.66	21.84	21.88	22.15	21.97	22.03	22.21	22.25	22.51
8H	21.59	21.65	21.83	21.87	22.14	21.95	22.01	22.20	22.24	22.50
12H	21.57	21.63	21.82	21.86	22.13	21.93	21.99	22.18	22.22	22.49
8H 4H	21.88	21.95	22.10	22.15	22.41	22.47	22.54	22.69	22.74	23.00
6H	22.37	22.42	22.63	22.66	22.93	22.92	22.97	23.17	23.21	23.48
8H	22.37	22.42	22.63	22.66	22.94	22.91	22.96	23.17	23.20	23.48
12H	22.36	22.40	22.62	22.65	22.93	22.89	22.93	23.16	23.19	23.47
12H 4H	22.44	22.49	22.69	22.72	22.99	23.06	23.12	23.31	23.35	23.62
6H	22.50	22.54	22.76	22.79	23.07	23.12	23.16	23.38	23.41	23.69

C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2020/3/2 11:09:01

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1800B Goniophotometer
 Humidity: 25
 Test Distance: 6.2 m
 Remarks:

Report No.:

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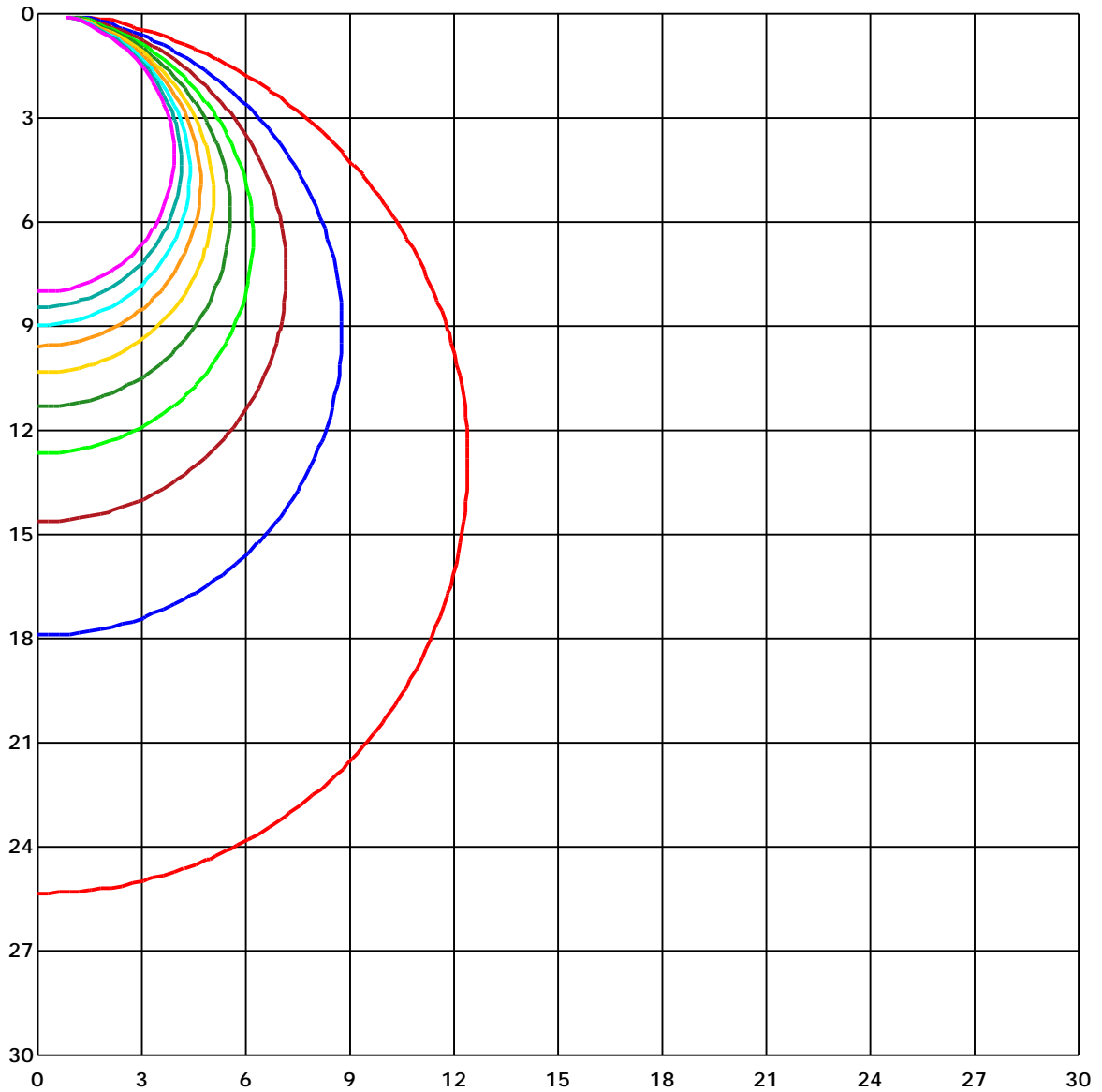
ZONAL LUMINOUS FLUX TABLE

Gamma [deg]	I _{mean} [cd]	Zonal Flux [lm]	Sum Flux [lm]	Zonal Flux [%]	Sum Flux [%]
0	740.17	0.00	0.00	0.00	0.00
5	741.25	17.72	17.72	0.78	0.78
10	736.90	52.81	70.53	2.33	3.11
15	726.24	86.52	157.05	3.81	6.92
20	709.06	117.69	274.74	5.19	12.11
25	685.97	145.30	420.04	6.41	18.52
30	655.76	168.19	588.23	7.41	25.93
35	619.65	185.60	773.83	8.18	34.11
40	578.53	197.09	970.92	8.69	42.80
45	532.95	202.34	1173.26	8.92	51.72
50	482.17	200.97	1374.23	8.86	60.58
55	425.77	192.45	1566.69	8.48	69.06
60	366.21	177.46	1744.15	7.82	76.89
65	305.26	157.16	1901.30	6.93	83.81
70	243.73	132.71	2034.02	5.85	89.67
75	180.45	104.24	2138.26	4.60	94.26
80	117.91	72.98	2211.24	3.22	97.48
85	60.60	41.96	2253.20	1.85	99.33
90	15.00	15.26	2268.46	0.67	100.00

C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
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 Temperature:
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 Test Date: 2020/3/2 11:09:01

G Range: 0 - 90 Deg
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 Test System: Huipu CPM-1800B Goniophotometer
 Humidity: 25
 Test Distance: 6.2 m
 Remarks:

SPACE ISOLX DIAGRAM



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2020/3/2 11:09:01

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1800B Goniophotometer
Humidity: 25
Test Distance: 6.2 m
Remarks:

Report No.:

Test Time: 2020/3/2 11:09:01

LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	743.62	743.7	740.39	740.7	736.09	738.82	737.39	740.62	741.28	
G1	743.7	743.35	741.85	741.32	737.63	739.78	738.59	740.24	741.35	
G2	743.47	743.05	742.24	741.82	739.05	740.55	739.7	740.59	741.05	
G3	743.24	742.43	742.35	742.12	740.16	741.28	740.2	740.12	741.01	
G4	742.55	741.55	741.55	741.47	741.28	741.39	740.93	739.32	740.09	
G5	741.89	740.28	741.35	741.08	742.01	741.51	740.24	738.36	739.62	
G6	741.16	738.86	741.58	741.58	742.47	740.47	740.89	737.13	738.12	
G7	739.51	737.05	740.01	740.05	742.74	740.12	739.55	735.43	736.74	
G8	737.55	734.97	738.86	739.12	742.55	740.24	739.12	734.01	734.32	
G9	735.82	732.01	737.89	738.24	742.01	739.43	738.2	731.63	733.05	
G10	733.28	729.98	736.51	737.01	741.32	738.2	736.74	729.28	731.01	
G11	731.13	727.13	734.36	735.4	740.28	736.63	735.47	726.94	728.21	
G12	728.63	724.29	732.4	733.44	739.16	735.01	733.51	724.06	725.63	
G13	724.94	721.4	729.9	731.01	737.32	732.7	731.4	721.67	722.6	
G14	722.6	717.14	727.86	728.4	736.16	730.71	729.36	717.71	719.33	
G15	718.79	713.14	725.13	726.4	734.17	728.13	726.52	714.6	716.02	
G16	715.1	709.18	721.29	722.94	731.9	725.52	724.06	709.99	712.25	
G17	711.37	705.1	717.75	719.87	729.4	722.36	720.44	706.95	708.6	
G18	707.07	700.61	714.22	715.98	726.79	719.87	717.83	701.65	704.61	
G19	702.8	695.73	710.49	712.52	724.13	715.71	713.56	697.57	700.26	
G20	698.15	690.69	706.68	708.76	720.71	711.87	710.56	692.69	695.61	
G21	693.5	685.5	702.22	704.53	717.14	707.72	706.41	687.58	691.11	
G22	687.81	680.54	697.65	699.88	713.72	703.99	702.11	682.19	685.77	
G23	682.96	674.47	692.69	695.15	709.56	699.19	697.76	677.2	680.46	
G24	677.39	668.2	687.65	690.15	705.6	694.34	693.15	671.28	674.62	
G25	670.66	661.94	682.27	684.23	700.68	689.08	687.73	665.24	668.74	
G26	664.4	654.79	676.54	679.0	696.03	683.96	682.73	658.59	662.36	
G27	657.9	648.41	670.59	673.16	690.88	678.74	676.54	651.48	655.9	
G28	651.14	641.14	664.36	666.32	685.62	672.93	670.74	644.6	648.91	
G29	644.1	633.64	657.71	660.71	680.12	666.66	664.94	638.18	641.45	
G30	636.76	626.3	650.9	653.36	674.2	660.48	659.21	629.95	634.53	
G31	629.38	618.5	643.18	646.87	668.24	653.83	651.67	623.11	627.07	
G32	621.54	610.47	636.76	640.3	661.86	646.45	644.68	615.12	619.19	
G33	613.0	602.24	629.07	632.91	655.36	639.68	637.83	607.12	611.31	
G34	605.66	594.01	621.54	625.38	648.56	632.45	630.69	598.9	603.2	
G35	596.55	585.25	613.69	618.15	641.68	625.38	622.92	590.9	595.01	
G36	588.82	576.56	605.62	609.97	633.91	617.69	615.58	582.14	586.48	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2020/3/2 11:09:01

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity: 25

Test Distance: 6.2 m

Remarks:

Report No.:

Test Time: 2020/3/2 11:09:01

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	579.91	567.61	597.59	601.66	626.84	609.74	607.58	573.56	577.87	
G38	571.03	558.88	589.17	593.4	618.77	601.78	599.36	564.38	568.99	
G39	561.92	549.19	580.56	585.36	611.27	593.67	590.98	555.27	559.61	
G40	552.54	539.81	572.33	576.29	603.16	585.94	582.6	546.04	550.46	
G41	543.16	530.01	562.76	567.53	595.09	576.72	573.41	537.35	541.27	
G42	533.47	520.32	553.69	558.88	586.79	568.34	565.11	527.17	531.59	
G43	523.86	510.33	544.54	549.5	578.29	558.92	556.42	517.21	522.25	
G44	513.94	500.22	535.2	540.12	569.76	549.96	546.96	507.45	512.21	
G45	503.87	490.07	525.36	530.51	560.49	540.47	537.47	497.26	502.33	
G46	493.3	479.31	515.44	520.75	551.31	530.82	527.74	486.96	491.8	
G47	482.73	468.7	505.52	510.37	542.0	521.09	517.86	476.5	481.04	
G48	472.2	457.71	495.18	500.49	532.78	510.87	508.14	465.89	470.74	
G49	461.32	446.25	484.84	489.84	522.55	500.34	497.87	454.36	459.97	
G50	450.06	434.49	473.81	478.73	512.6	489.53	487.77	443.1	448.79	
G51	438.45	423.03	462.59	467.97	501.99	479.08	476.77	431.18	437.14	
G52	426.91	411.19	450.82	456.67	490.99	468.05	465.28	420.19	425.34	
G53	415.5	399.08	440.02	445.21	480.38	456.71	454.4	408.16	414.0	
G54	403.35	386.86	428.26	433.76	469.47	445.14	443.14	396.16	401.81	
G55	391.36	374.67	416.8	422.07	458.32	433.76	431.72	384.21	389.74	
G56	378.83	362.49	404.62	410.62	446.37	422.34	419.61	372.48	377.4	
G57	366.79	349.92	392.97	398.51	435.41	410.5	408.23	360.14	365.53	
G58	354.3	337.77	380.83	386.86	423.3	398.97	396.24	348.19	352.96	
G59	341.96	325.09	368.83	374.64	412.15	386.86	384.52	335.66	340.62	
G60	329.7	312.56	356.68	362.68	400.54	374.91	372.68	323.66	328.39	
G61	317.05	299.91	344.42	350.61	388.28	363.1	360.14	311.29	315.78	
G62	304.37	287.3	332.12	338.54	376.29	350.53	348.34	298.95	303.14	
G63	291.64	275.12	319.74	326.86	364.07	338.39	336.0	286.8	290.8	
G64	279.38	262.74	307.71	314.59	352.26	326.39	324.13	274.85	278.27	
G65	266.85	249.98	295.45	302.64	340.04	314.67	312.21	262.62	265.89	
G66	254.4	237.44	283.26	290.38	328.05	302.37	299.87	250.44	253.4	
G67	242.33	225.03	271.23	278.11	316.28	289.95	287.8	238.37	241.25	
G68	229.64	212.46	258.89	266.04	303.64	277.46	275.5	226.18	228.95	
G69	217.22	199.85	246.67	253.59	291.38	264.51	262.89	213.76	216.49	
G70	205.0	187.09	234.29	240.94	278.81	251.97	250.36	201.31	204.04	
G71	192.2	174.67	221.61	228.45	266.24	239.33	237.64	189.01	191.55	
G72	179.63	162.41	208.34	215.96	253.4	226.95	224.26	176.67	178.94	
G73	167.64	149.72	195.85	203.27	241.06	213.88	211.46	163.87	166.87	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2020/3/2 11:09:01

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity: 25

Test Distance: 6.2 m

Remarks:

Report No.:

Test Time: 2020/3/2 11:09:01

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G74	155.07	137.08	182.94	190.43	228.3	200.66	198.2	150.95	154.57	
G75	142.46	125.39	169.41	178.32	215.11	188.28	184.82	138.92	141.96	
G76	130.04	112.9	156.37	165.71	202.12	175.29	171.6	126.47	129.62	
G77	118.2	100.98	143.77	153.3	189.51	162.37	158.6	114.36	117.74	
G78	106.13	89.14	130.81	141.0	176.94	149.38	145.46	102.25	105.79	
G79	94.72	77.57	118.2	128.62	164.37	136.69	132.73	90.37	94.41	
G80	83.18	66.23	105.4	116.28	151.57	124.2	119.74	78.61	82.95	
G81	72.23	55.55	93.29	104.52	139.27	111.98	107.21	67.35	71.96	
G82	61.47	45.32	81.15	93.1	126.93	100.25	94.99	56.43	61.35	
G83	51.51	35.36	69.61	81.76	115.09	88.76	83.18	45.97	51.28	
G84	41.71	26.18	58.35	70.31	103.52	77.38	71.61	35.71	41.67	
G85	32.33	17.87	47.55	59.39	92.29	66.39	60.35	26.22	32.25	
G86	23.1	10.92	36.63	49.16	81.15	56.31	49.24	17.99	23.1	
G87	13.92	5.5	25.52	40.36	69.46	47.78	37.52	11.95	13.99	
G88	4.96	1.15	14.18	32.6	57.2	39.98	25.06	6.84	4.96	
G89	0.0	0.0	2.19	25.6	44.36	33.21	11.99	2.65	0.0	
G90	0.0	0.0	0.0	19.2	0.0	26.66	0.0	0.0	0.0	

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2020/3/2 11:09:01

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1800B Goniophotometer
Humidity: 25
Test Distance: 6.2 m
Remarks: