

Report No.:

Test Time: 2024/5/23 15:51:45

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP101SCT075H74-15°-10.6W
Lamp Type:
Luminous Width: 68 mm
Luminous Length: 68 mm
Luminous Height: 71 mm

Voltage(V): 220.00 V
Current(A): 0.0520 A
Power(W): 10.63 W
Power Factor: 0.9180
Lamp Luminous Flux: 1196.30

Photometric Results

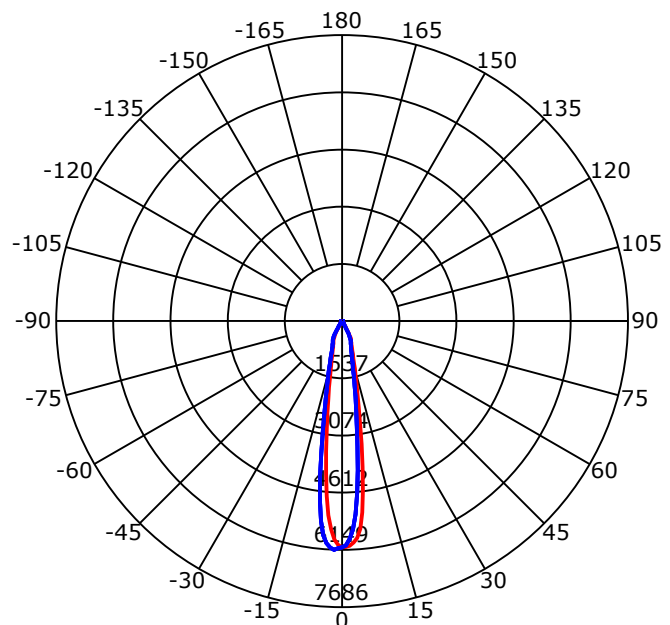
CIE Class: Direct
Luminaire Luminous Flux: 1196.3 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 112.54 lm/W
Beam Angle(50%) C0-180,C90-270: 17.4,17.5
Field Angle(10%) C0-180,C90-270: 46.1,46.4
S/MH C0-180,C90-270: 0.317,0.317

Max. Intensity: 6148.76 cd
Max.Intensity Angle: C=270 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 6079.77 cd
Effective Luminous Flux: 844.57 lm
ERP(ϕ use)(120deg): 1168.86 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 17.4 deg,17.5 deg

C0-180 — C90-270 —

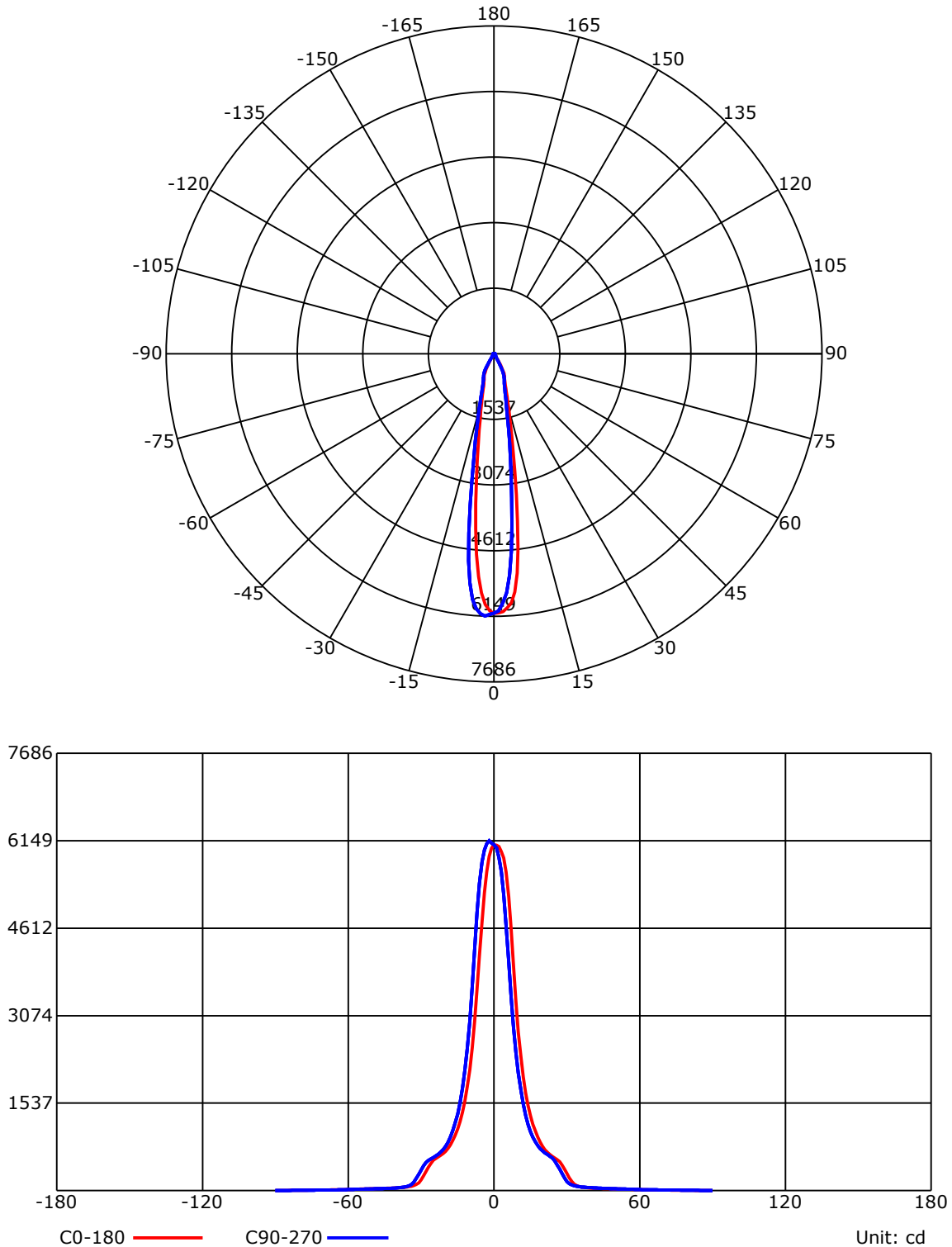
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/5/23 15:51:45

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

Report No.:

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Luminous Intensity Distribution Curve



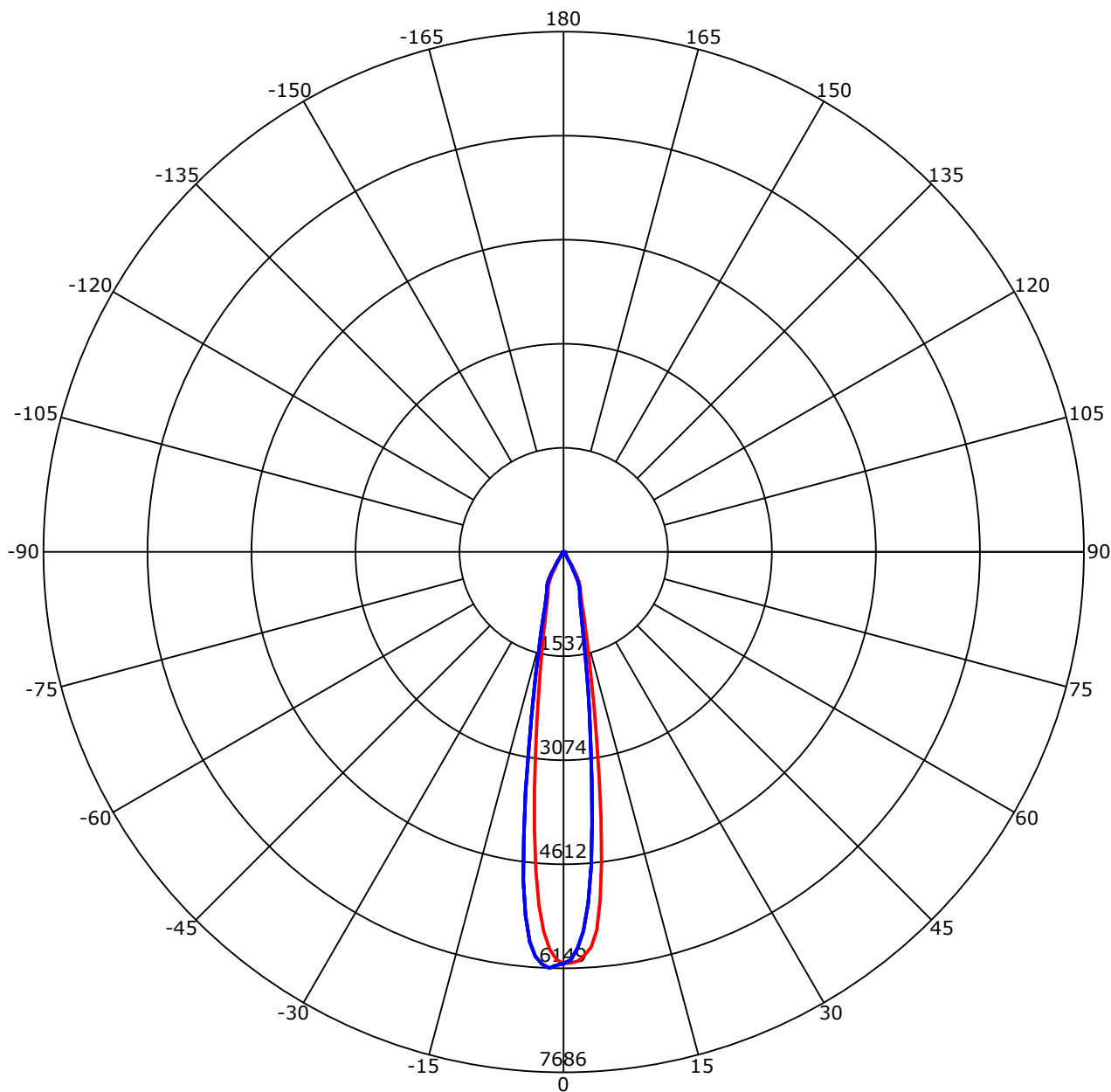
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

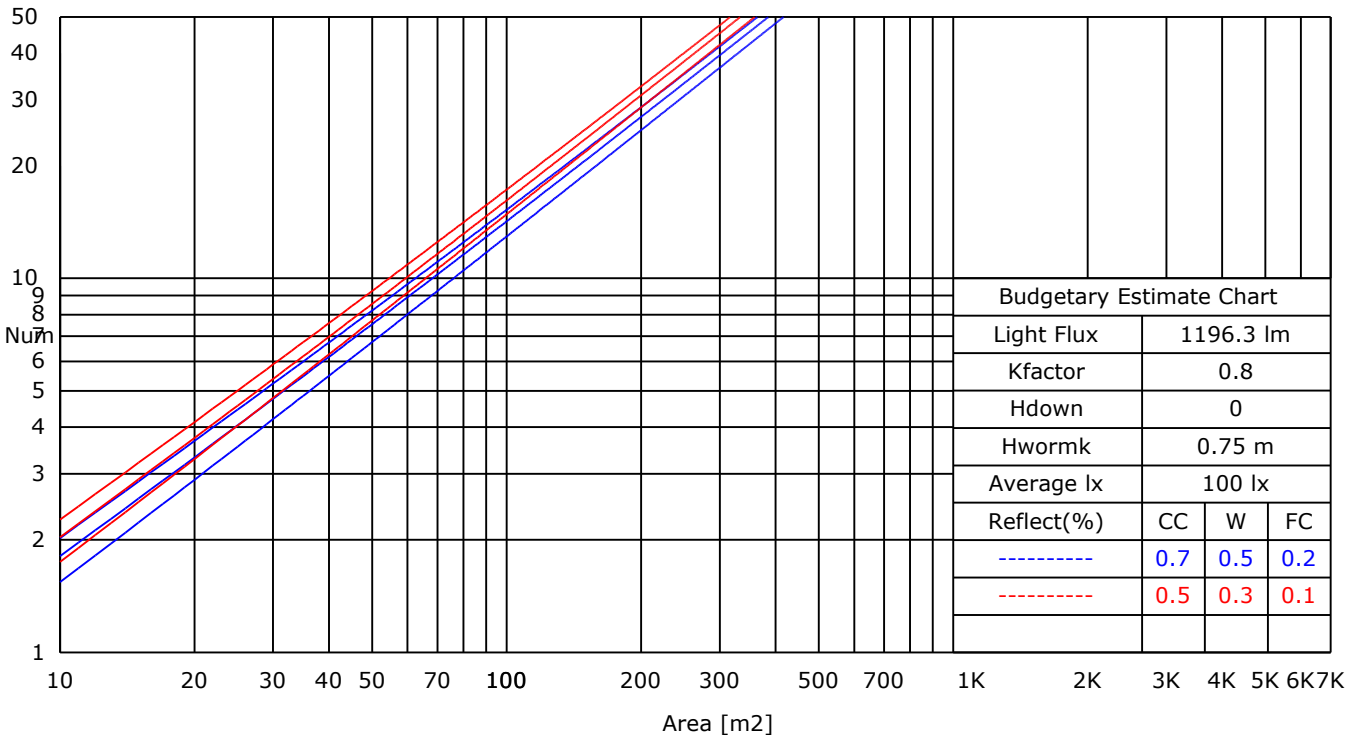
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Temperature: 25
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G Interval: 1.0 Deg
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Humidity: 60
Test Distance: 6.7 m
Remarks:

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	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	0.87	0.84	0.81	0.87	0.83	0.80	0.85	0.81	0.77	0.81	0.77	0.73	0.76	0.72	0.68	0.63
2	0.81	0.78	0.75	0.81	0.77	0.74	0.79	0.75	0.71	0.76	0.72	0.68	0.72	0.68	0.63	0.59
3	0.77	0.74	0.72	0.77	0.73	0.71	0.75	0.71	0.68	0.73	0.68	0.64	0.70	0.65	0.60	0.56
4	0.74	0.71	0.69	0.74	0.70	0.68	0.73	0.68	0.65	0.71	0.66	0.62	0.68	0.63	0.58	0.54
5	0.71	0.69	0.67	0.71	0.68	0.66	0.70	0.66	0.63	0.68	0.63	0.60	0.66	0.61	0.56	0.53
6	0.69	0.67	0.65	0.68	0.66	0.64	0.68	0.64	0.61	0.66	0.61	0.58	0.64	0.59	0.55	0.51
7	0.67	0.65	0.63	0.66	0.64	0.62	0.66	0.62	0.59	0.64	0.60	0.56	0.62	0.57	0.53	0.50
8	0.65	0.63	0.62	0.65	0.62	0.60	0.64	0.60	0.58	0.62	0.58	0.55	0.61	0.56	0.52	0.48
9	0.63	0.61	0.60	0.63	0.60	0.59	0.62	0.59	0.56	0.61	0.56	0.53	0.59	0.54	0.51	0.47
10	0.62	0.60	0.59	0.61	0.59	0.58	0.60	0.57	0.55	0.59	0.55	0.52	0.58	0.53	0.49	0.46

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



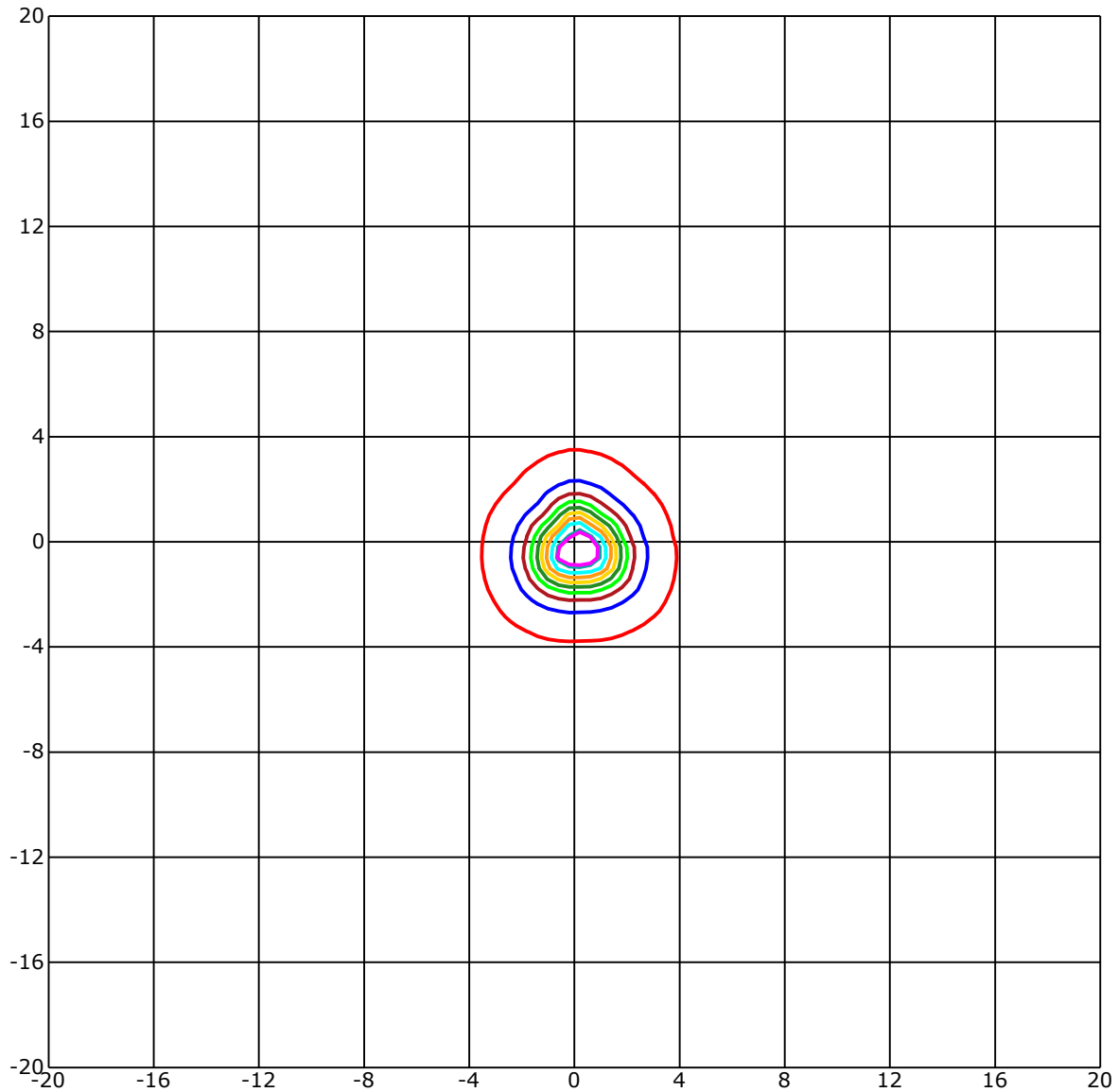
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Operators: QC01
Test Date: 2024/5/23 15:51:45

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
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ISOLX DIAGRAM



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

56.465(92%Emax)	30.688(50%Emax)
55.238(90%Emax)	24.55(40%Emax)
49.1(80%Emax)	18.413(30%Emax)
42.963(70%Emax)	12.275(20%Emax)
36.825(60%Emax)	6.138(10%Emax)

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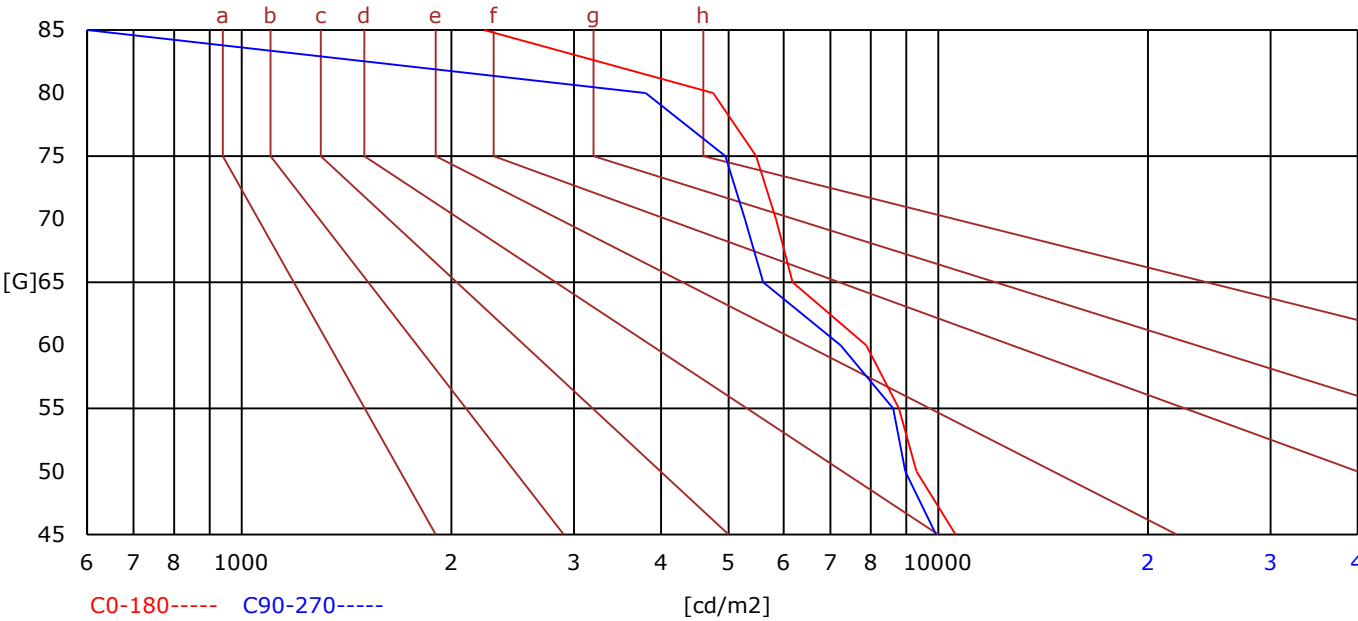
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	10585	9303	8784	7883	6179	5847	5476	4752	2228
C90	9926	8971	8615	7242	5605	5280	4951	3802	557
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



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C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

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G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

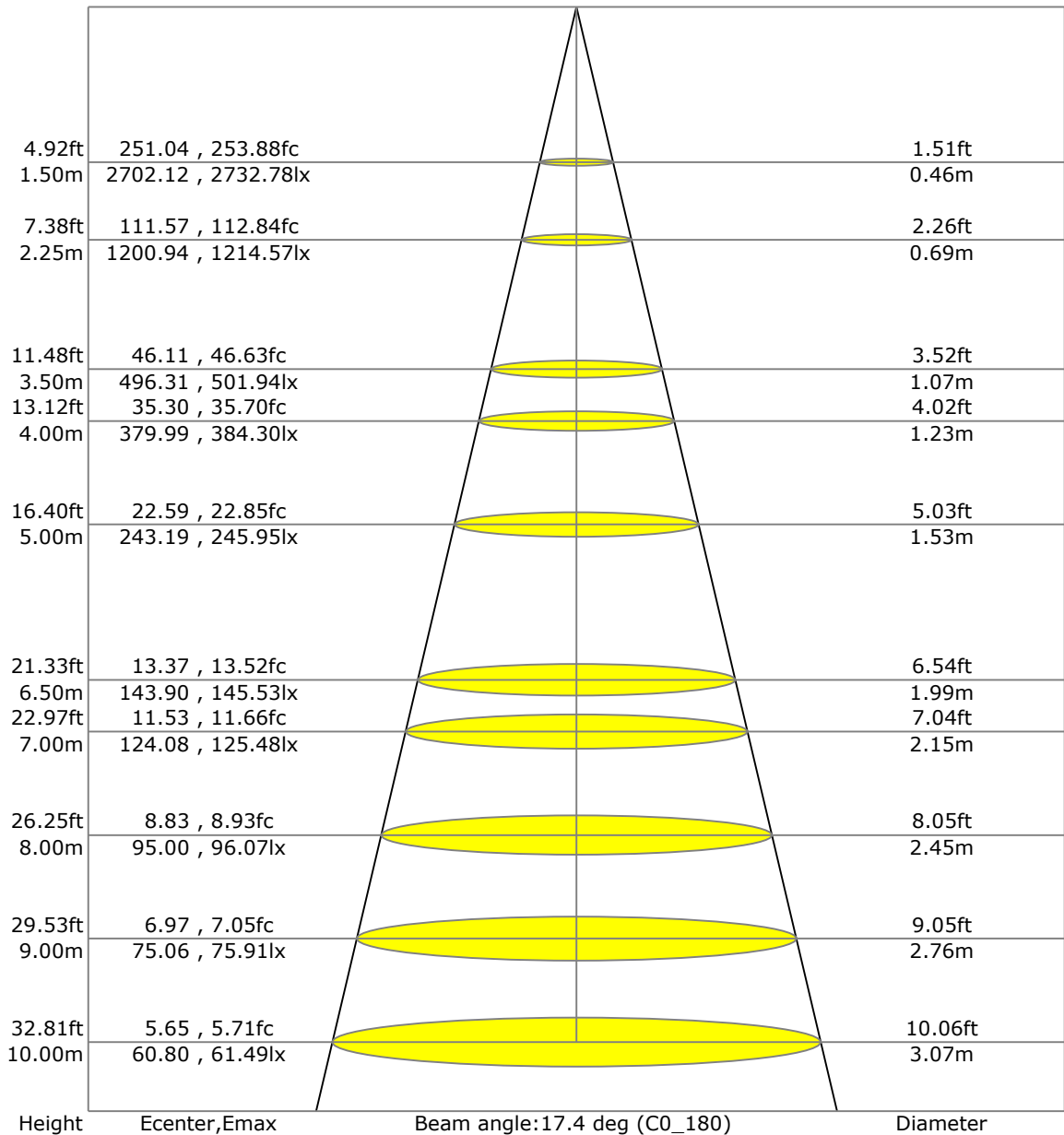
Test Distance: 6.7 m

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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
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G Interval: 1.0 Deg
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Humidity: 60
Test Distance: 6.7 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	10.21	10.28	10.41	10.46	10.71	10.29	10.36	10.49	10.54	10.79
3H	10.26	10.32	10.47	10.52	10.76	10.33	10.39	10.53	10.59	10.83
4H	10.26	10.33	10.47	10.52	10.77	10.32	10.39	10.54	10.59	10.84
6H	10.25	10.32	10.47	10.52	10.77	10.31	10.38	10.53	10.58	10.83
8H	10.24	10.31	10.46	10.51	10.76	10.30	10.37	10.52	10.57	10.83
12H	10.23	10.30	10.45	10.50	10.76	10.29	10.36	10.52	10.57	10.82
4H 2H	11.08	11.15	11.29	11.35	11.60	11.36	11.43	11.57	11.63	11.88
3H	11.24	11.31	11.47	11.52	11.77	11.51	11.58	11.73	11.79	12.04
4H	11.28	11.35	11.51	11.56	11.82	11.54	11.61	11.77	11.82	12.08
6H	11.29	11.35	11.53	11.57	11.84	11.54	11.60	11.78	11.83	12.09
8H	11.28	11.34	11.52	11.57	11.84	11.53	11.60	11.77	11.82	12.09
12H	11.27	11.33	11.52	11.56	11.84	11.52	11.58	11.77	11.81	12.08
8H 4H	11.40	11.46	11.62	11.67	11.92	11.77	11.83	11.99	12.04	12.29
6H	11.75	11.81	12.01	12.05	12.33	12.10	12.17	12.36	12.41	12.68
8H	11.75	11.81	12.01	12.06	12.34	12.10	12.16	12.36	12.41	12.69
12H	11.74	11.80	12.01	12.05	12.33	12.09	12.14	12.36	12.40	12.68
12H 4H	11.82	11.88	12.07	12.12	12.39	12.21	12.27	12.46	12.51	12.78
6H	11.86	11.92	12.13	12.17	12.45	12.25	12.31	12.51	12.56	12.84

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ZONAL LUMINOUS FLUX TABLE

[illegible]

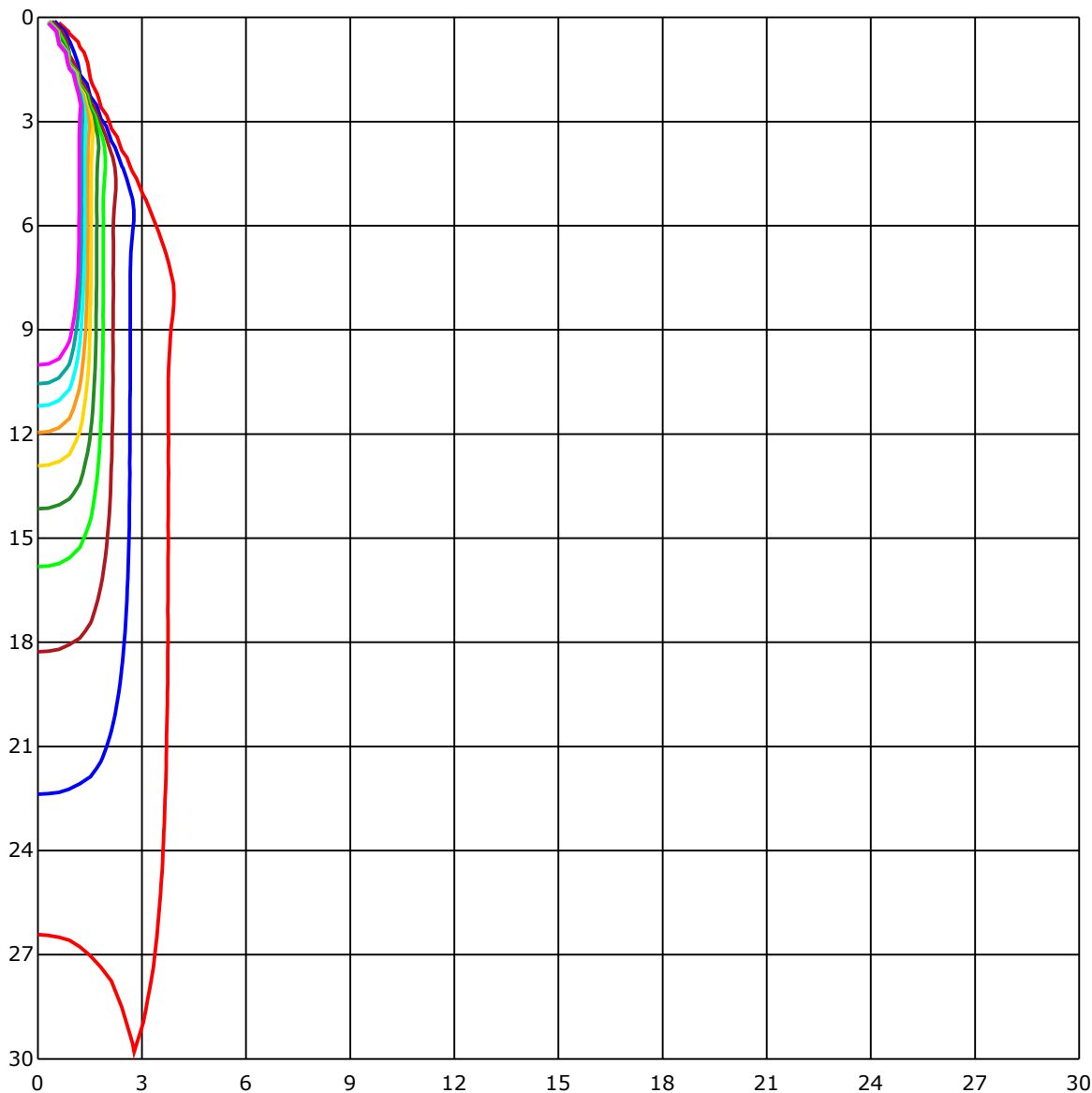
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SPACE ISOLX DIAGRAM



Unit of illumination:lx

60.717	30.358
54.645	24.287
48.574	18.215
42.502	12.143
36.43	6.072

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	6079.77	6035.19	6078.87	5948.42	6079.77	6035.19	6078.87	5948.42	6079.77	
G1	6071.6	5941.87	6024.96	5721.72	6020.92	6062.26	6105.94	6053.87	6071.6	
G2	6044.66	5767.83	5852.94	5376.12	5876.24	6092.34	6148.76	6080.49	6044.66	
G3	5956.95	5468.05	5605.91	4878.42	5611.61	6063.38	6095.97	6135.12	5956.95	
G4	5848.45	5007.08	5201.99	4267.38	5232.24	5992.41	5984.78	6097.23	5848.45	
G5	5603.04	4408.87	4653.16	3629.67	4719.51	5810.34	5778.33	6017.95	5603.04	
G6	5166.3	3778.84	4026.77	3034.79	4121.49	5446.19	5395.87	5857.47	5166.3	
G7	4606.97	3173.05	3403.47	2533.41	3535.13	4981.85	4883.22	5569.77	4606.97	
G8	3958.62	2678.9	2872.33	2127.65	2974.37	4389.61	4239.86	5148.12	3958.62	
G9	3340.0	2270.9	2433.49	1813.29	2508.77	3765.06	3595.15	4592.16	3340.0	
G10	2790.45	1923.04	2070.87	1552.39	2127.97	3168.97	2987.88	3993.01	2790.45	
G11	2361.44	1641.13	1764.99	1344.82	1821.05	2642.05	2493.77	3397.59	2361.44	
G12	2000.48	1425.39	1520.74	1177.38	1572.45	2223.81	2117.06	2865.78	2000.48	
G13	1717.04	1250.28	1319.95	1047.28	1376.73	1886.1	1800.58	2418.49	1717.04	
G14	1497.35	1106.05	1160.86	940.31	1212.52	1623.76	1550.91	2051.43	1497.35	
G15	1320.13	990.36	1036.56	857.98	1082.25	1416.32	1344.68	1765.7	1320.13	
G16	1168.62	894.57	938.87	787.19	969.09	1252.97	1184.33	1534.65	1168.62	
G17	1047.55	813.72	855.96	730.05	879.04	1119.06	1050.52	1351.23	1047.55	
G18	940.36	748.81	791.14	683.45	800.79	1005.58	940.63	1198.52	940.36	
G19	849.36	700.6	736.24	646.82	739.83	906.96	848.06	1074.22	849.36	
G20	776.55	661.27	697.41	613.96	690.86	827.73	777.72	966.66	776.55	
G21	718.87	627.02	660.78	587.57	651.35	762.01	720.44	882.63	718.87	
G22	671.24	599.06	631.78	560.0	618.99	710.65	677.17	809.73	671.24	
G23	633.31	572.75	602.87	537.65	590.44	669.09	639.37	753.03	633.31	
G24	599.6	550.67	571.76	517.27	564.4	635.06	610.91	705.45	599.6	
G25	572.53	527.37	521.58	494.1	534.01	605.21	583.53	667.69	572.53	
G26	542.77	506.9	453.84	462.55	478.35	581.37	558.3	633.53	542.77	
G27	507.98	476.01	376.76	423.99	410.47	558.34	531.72	605.97	507.98	
G28	448.86	437.09	298.25	381.52	336.85	538.64	496.08	581.15	448.86	
G29	378.2	394.04	222.03	337.08	262.02	518.61	436.29	562.25	378.2	
G30	302.02	348.26	157.2	291.02	189.79	496.12	364.91	540.3	302.02	
G31	225.62	301.66	119.86	246.09	137.9	464.88	287.97	517.58	225.62	
G32	158.19	256.23	99.97	203.8	109.08	428.65	214.3	486.25	158.19	
G33	112.45	209.77	84.93	163.89	90.41	386.37	151.73	449.66	112.45	
G34	88.93	168.07	75.01	128.21	76.67	343.36	107.65	406.52	88.93	
G35	72.86	129.91	68.64	100.01	69.0	297.89	86.73	361.5	72.86	
G36	61.41	98.17	63.79	78.87	63.74	253.85	72.86	314.86	61.41	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	54.9	78.38	59.48	66.48	58.99	210.76	62.17	268.76	54.9	
G38	50.86	67.11	56.29	57.59	55.04	168.88	55.21	222.7	50.86	
G39	47.4	58.85	53.33	49.33	51.85	133.23	50.55	178.8	47.4	
G40	44.13	51.53	50.95	43.41	49.11	105.45	46.64	139.92	44.13	
G41	41.88	45.34	48.44	40.4	46.37	86.55	43.59	108.72	41.88	
G42	39.91	41.57	45.74	38.07	44.4	75.77	41.25	88.25	39.91	
G43	38.16	38.83	43.86	36.18	42.87	65.81	39.41	76.22	38.16	
G44	36.63	36.72	42.2	34.21	41.39	57.82	37.98	65.85	36.63	
G45	35.51	34.61	40.54	32.46	40.22	52.75	36.68	57.73	35.51	
G46	34.16	32.72	38.74	30.88	38.78	49.15	35.55	52.75	34.16	
G47	33.17	30.93	37.03	29.72	37.57	45.97	34.25	49.47	33.17	
G48	31.87	29.67	35.55	28.82	36.27	43.45	32.99	46.24	31.87	
G49	30.84	28.42	34.12	27.47	35.01	40.89	31.6	43.68	30.84	
G50	29.67	27.65	32.81	26.66	33.62	39.14	30.39	41.39	29.67	
G51	28.59	26.8	31.38	25.95	32.32	37.44	29.22	39.64	28.59	
G52	27.34	26.26	30.08	25.5	30.93	36.09	28.37	37.8	27.34	
G53	26.17	25.09	28.73	24.51	29.72	34.97	27.11	36.36	26.17	
G54	25.09	24.24	27.65	23.88	28.51	33.98	26.08	35.33	25.09	
G55	24.11	23.3	26.44	22.85	27.29	33.13	24.73	33.94	24.11	
G56	22.89	22.85	24.91	21.86	26.04	31.6	23.88	32.81	22.89	
G57	22.04	21.86	23.48	20.56	24.78	30.48	22.67	31.92	22.04	
G58	20.78	20.74	22.04	19.21	22.94	29.63	21.5	30.93	20.78	
G59	19.26	19.44	20.56	18.05	21.64	28.59	20.25	29.9	19.26	
G60	17.91	18.23	19.08	16.74	19.84	27.56	19.03	29.04	17.91	
G61	16.56	17.15	17.42	15.67	18.27	26.04	17.51	27.7	16.56	
G62	15.08	15.8	16.12	14.23	16.56	24.51	16.12	26.08	15.08	
G63	13.87	14.45	15.49	13.33	15.49	23.25	14.45	24.91	13.87	
G64	12.17	13.29	15.04	12.03	15.04	21.95	13.06	23.39	12.17	
G65	11.63	12.08	14.36	10.95	14.41	20.34	11.58	22.0	11.63	
G66	11.04	11.04	13.83	10.55	13.92	18.99	11.4	20.51	11.04	
G67	10.64	10.46	13.24	9.79	13.47	17.6	10.82	19.12	10.64	
G68	10.19	10.06	12.75	9.38	12.84	16.25	10.55	17.78	10.19	
G69	9.97	9.56	12.12	8.93	12.43	14.95	9.97	16.38	9.97	
G70	9.65	9.25	11.63	8.35	11.94	14.32	9.52	15.17	9.65	
G71	9.16	8.66	11.04	7.99	11.27	13.83	9.11	14.5	9.16	
G72	8.53	8.17	10.55	7.45	10.77	13.11	8.89	13.87	8.53	
G73	8.21	7.54	10.01	7.05	10.32	12.48	8.44	13.24	8.21	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

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G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.7 m

Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

[illegible]

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/5/23 15:51:45

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks: