

Report No.:

Test Time: 2024/10/26 15:28:28

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP104SCT095H124-2F-45°
Lamp Type:
Luminous Width: 90 mm
Luminous Length: 185 mm
Luminous Height: 80 mm

Voltage(V): 219.80 V
Current(A): 0.2420 A
Power(W): 51.64 W
Power Factor: 0.9690
Lamp Luminous Flux: 4338.09

Photometric Results

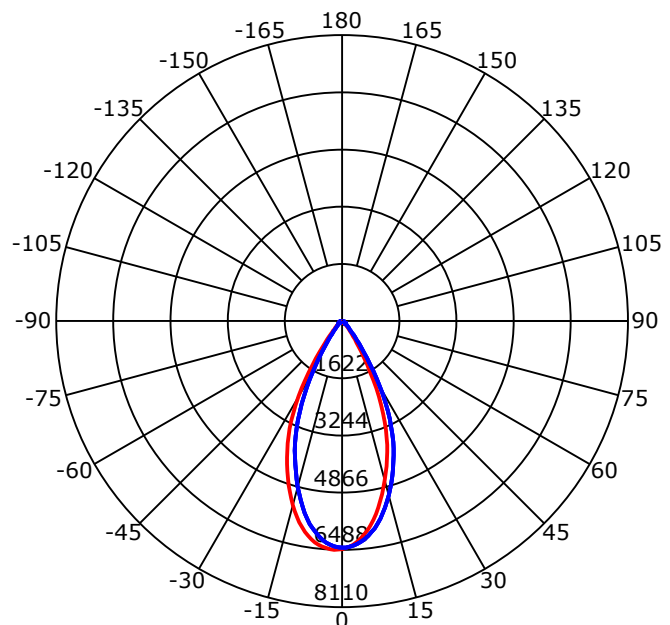
CIE Class: Direct
Luminaire Luminous Flux: 4338.093 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 84.01 lm/W
Beam Angle(50%) C0-180,C90-270: 49.0,48.8
Field Angle(10%) C0-180,C90-270: 74.1,74.5
S/MH C0-180,C90-270: 0.768,0.768

Max. Intensity: 6488.02 cd
Max.Intensity Angle: C=180 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 6472.39 cd
Effective Luminous Flux: 3874.38 lm
ERP(ϕ use)(120deg): 4257.75 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 49.0 deg,48.8 deg

C0-180 — C90-270 —

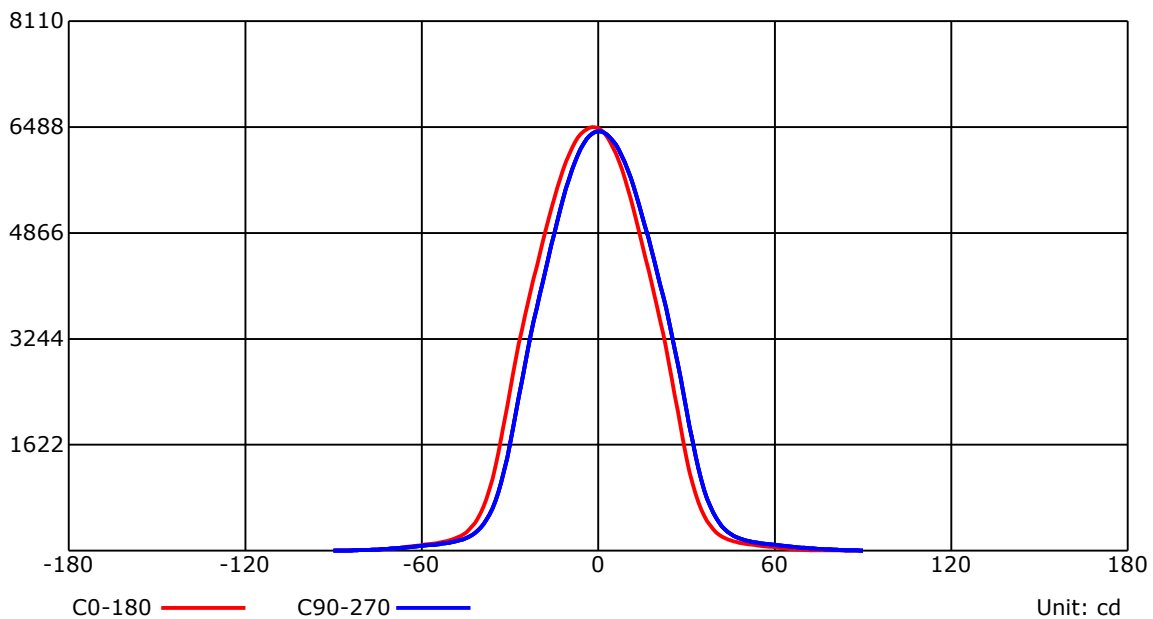
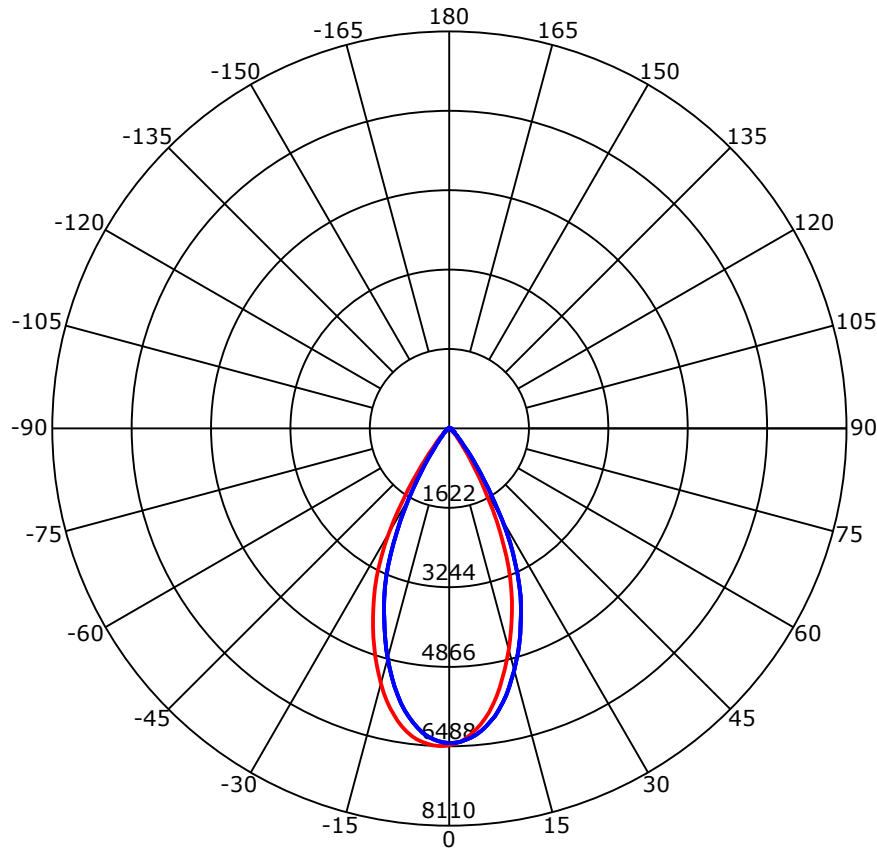
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/10/26 15:28:28

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

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Luminous Intensity Distribution Curve



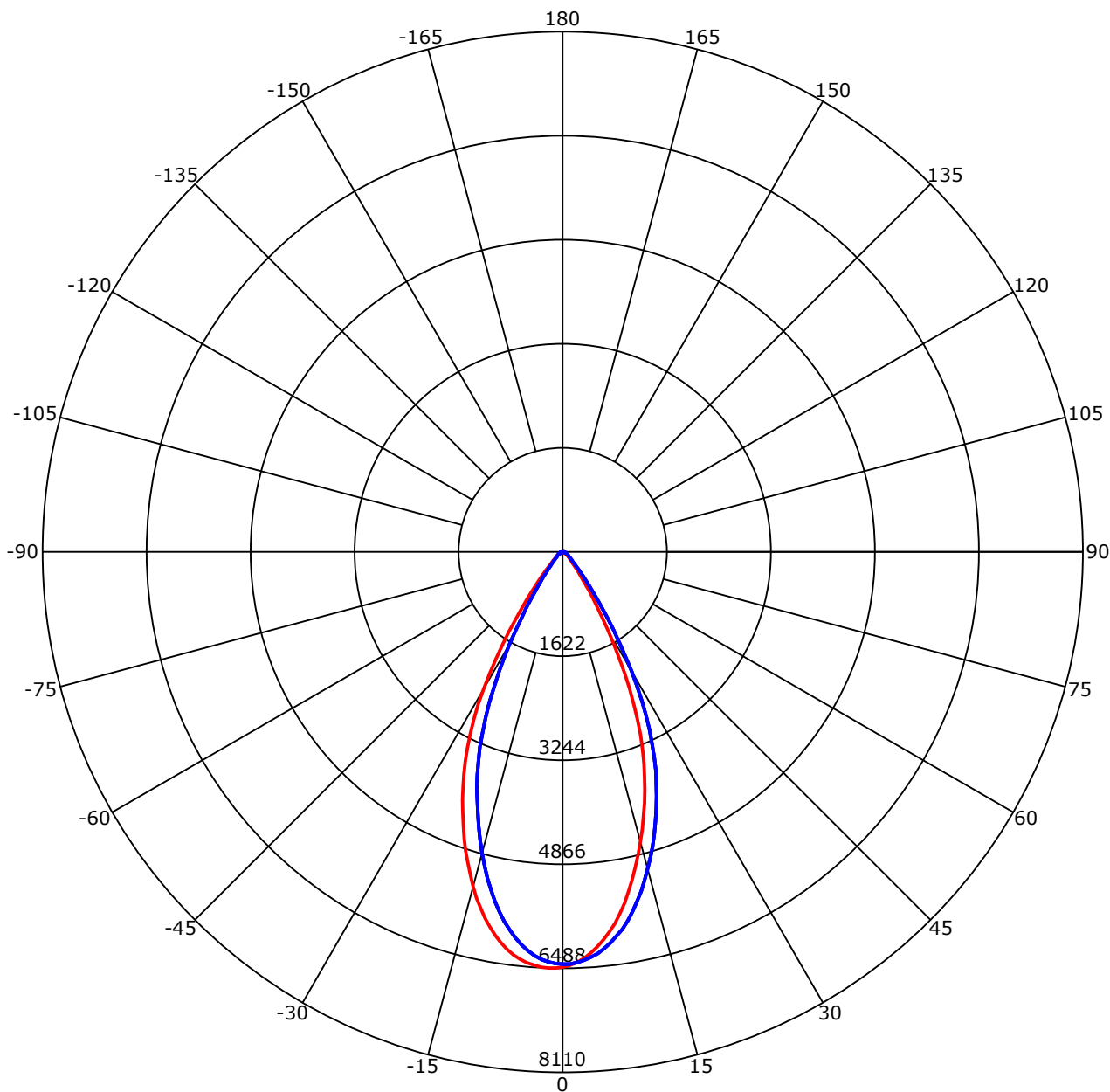
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/10/26 15:28:28

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G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

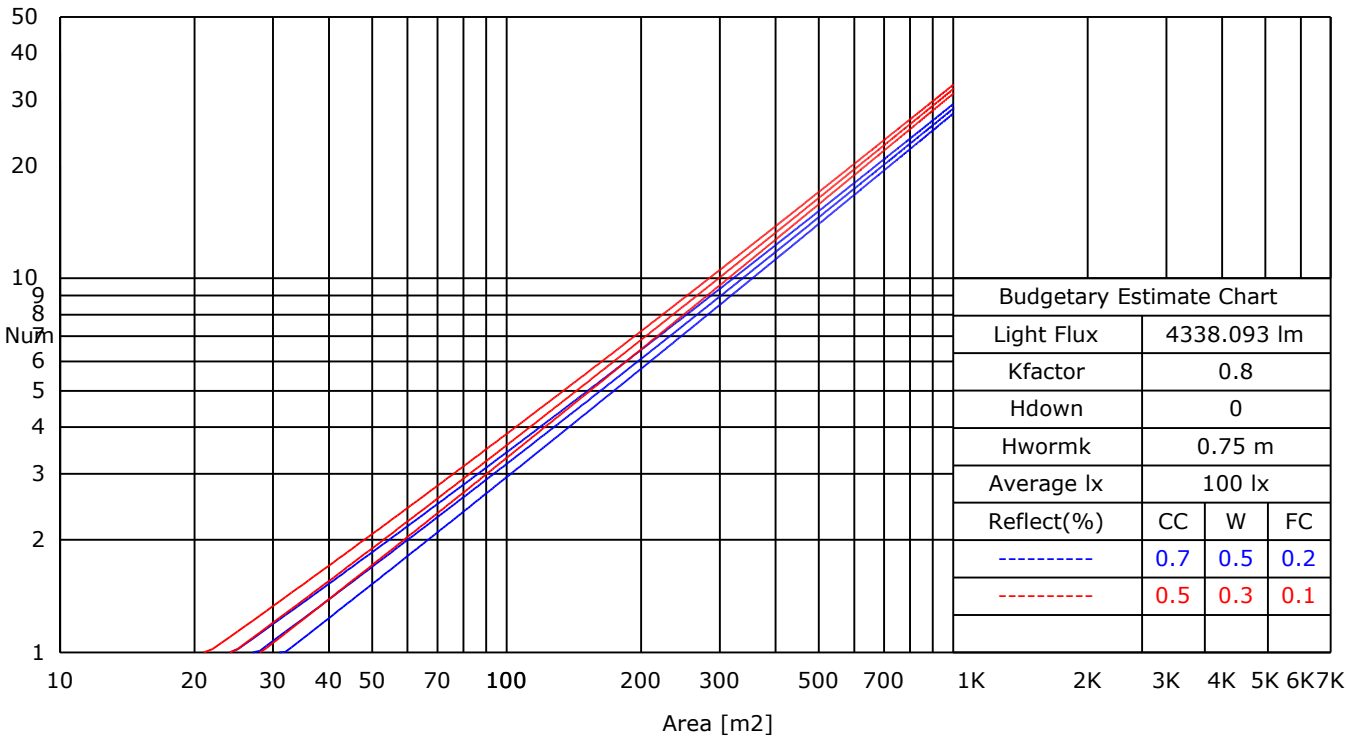
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UTILIZATION FACTORS TABLE

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	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	1.03	1.00	0.99	0.99	0.97	0.95	0.94	0.92	0.90	0.88	0.85	0.83	0.78
2	0.99	0.97	0.96	0.98	0.96	0.94	0.95	0.92	0.90	0.91	0.88	0.85	0.85	0.82	0.80	0.75
3	0.95	0.93	0.92	0.94	0.92	0.90	0.91	0.88	0.86	0.87	0.84	0.82	0.83	0.79	0.76	0.72
4	0.91	0.90	0.89	0.90	0.88	0.87	0.88	0.85	0.83	0.84	0.81	0.78	0.80	0.77	0.74	0.69
5	0.88	0.86	0.85	0.87	0.85	0.84	0.85	0.82	0.80	0.82	0.78	0.75	0.78	0.74	0.71	0.67
6	0.85	0.84	0.83	0.84	0.82	0.81	0.82	0.79	0.77	0.79	0.76	0.73	0.76	0.72	0.69	0.65
7	0.82	0.81	0.80	0.81	0.79	0.78	0.79	0.76	0.74	0.77	0.73	0.71	0.74	0.70	0.66	0.63
8	0.80	0.78	0.78	0.79	0.77	0.76	0.77	0.74	0.72	0.74	0.71	0.68	0.72	0.68	0.64	0.61
9	0.78	0.76	0.75	0.77	0.75	0.74	0.75	0.72	0.70	0.72	0.69	0.66	0.70	0.66	0.63	0.59
10	0.75	0.74	0.73	0.75	0.73	0.72	0.73	0.70	0.68	0.70	0.67	0.65	0.68	0.64	0.61	0.58

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



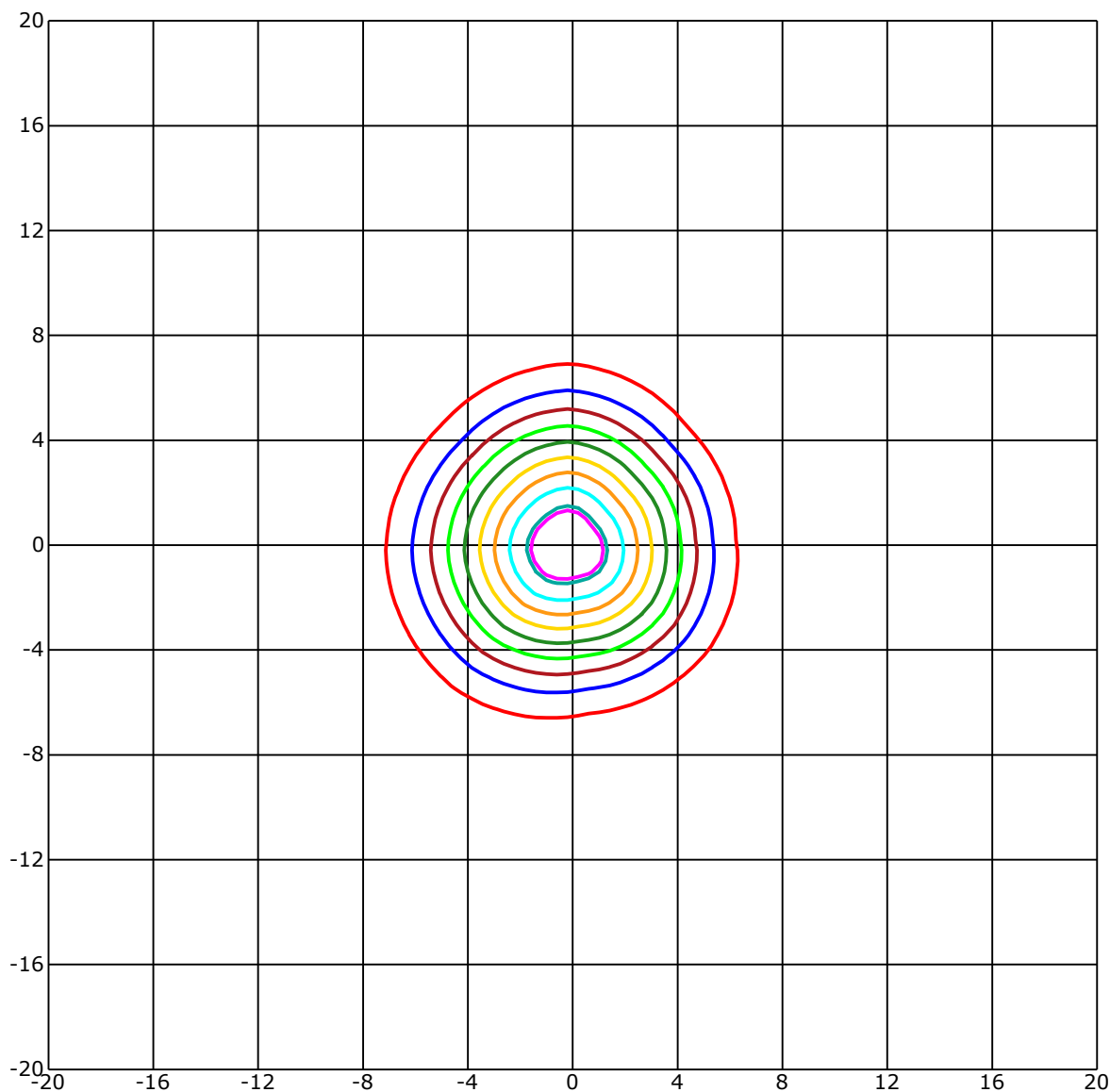
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/10/26 15:28:28

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
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ISOLX DIAGRAM



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

59.615(92%Emax)	32.4(50%Emax)
58.319(90%Emax)	25.92(40%Emax)
51.839(80%Emax)	19.44(30%Emax)
45.359(70%Emax)	12.96(20%Emax)
38.879(60%Emax)	6.48(10%Emax)

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C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/10/26 15:28:28

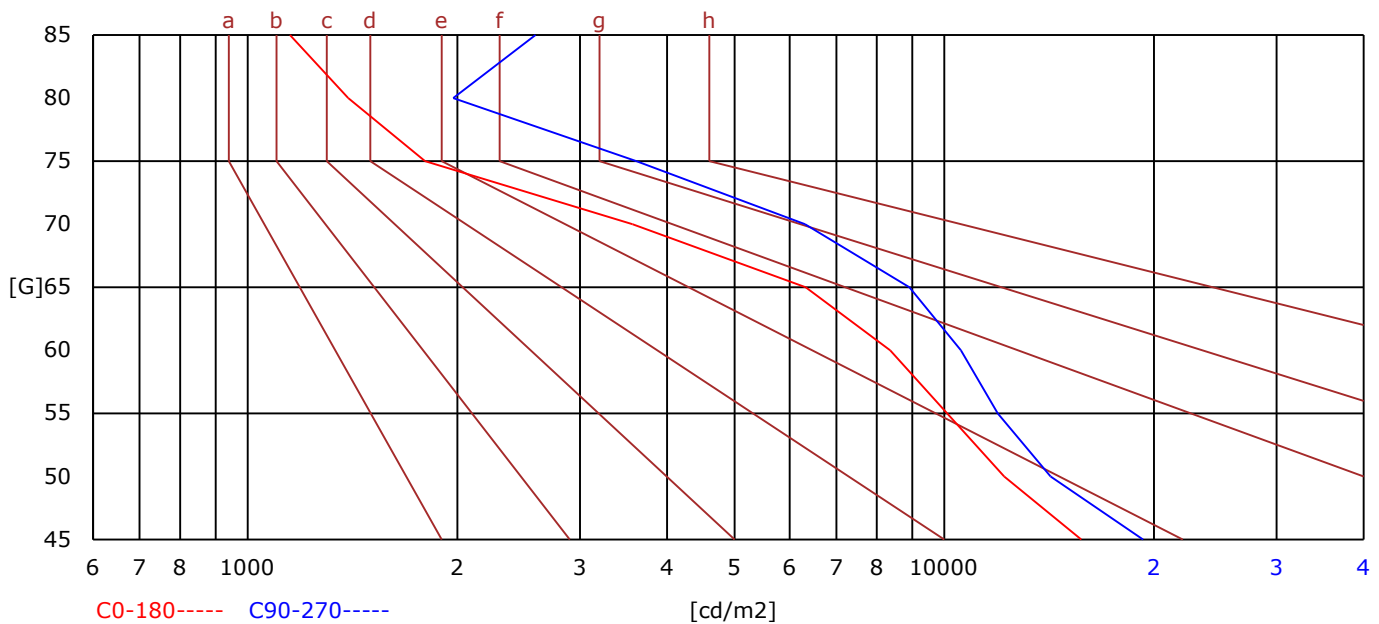
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	15729	12194	10101	8367	6327	3567	1797	1395	1150
C90	19286	14213	11931	10562	8911	6311	3616	1973	2589
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



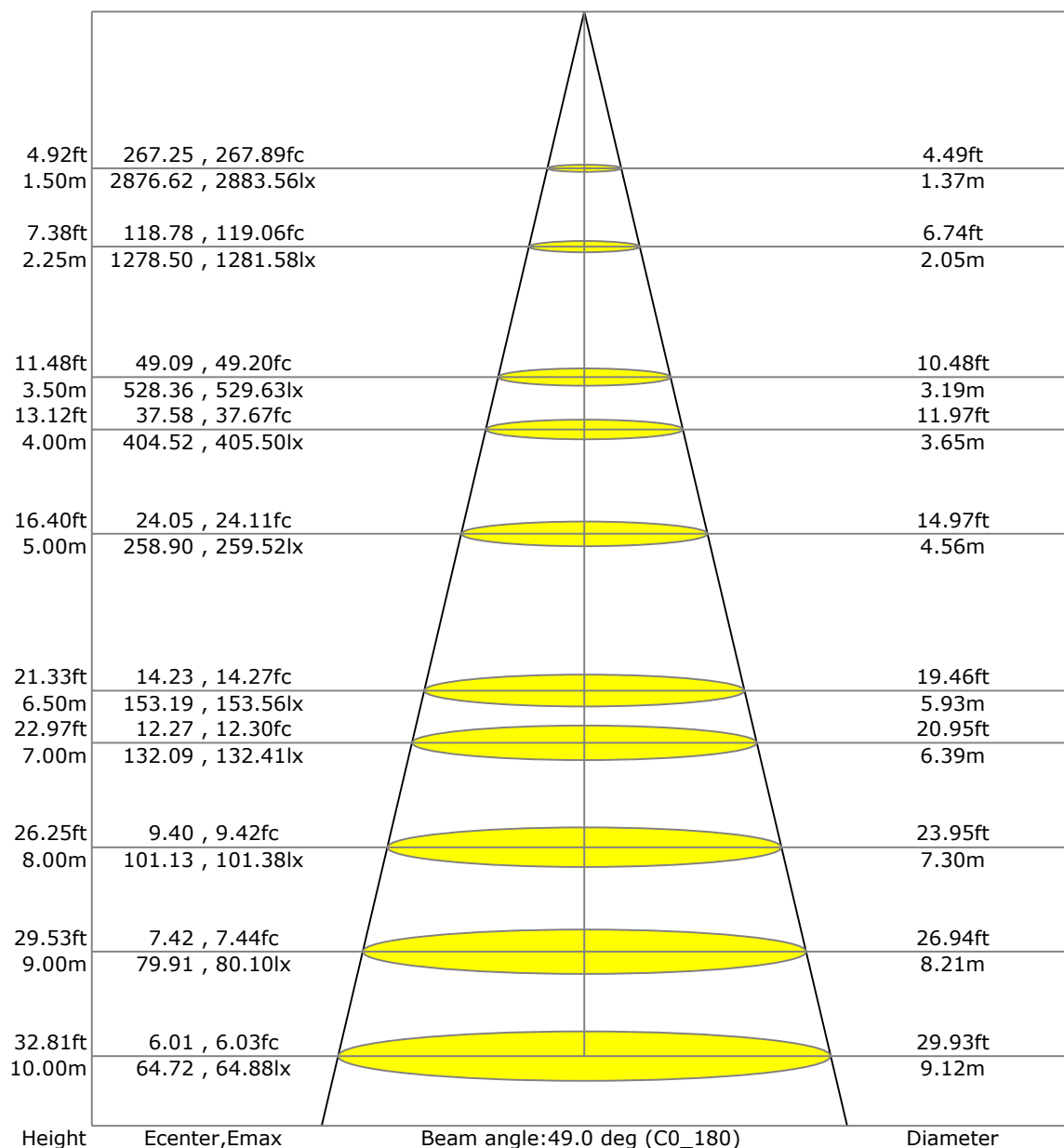
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C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/10/26 15:28:28

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/10/26 15:28:28

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

Report No.:

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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	8.02	8.07	8.22	8.26	8.50	8.37	8.42	8.57	8.61	8.85
	3H	8.03	8.08	8.24	8.28	8.52	8.36	8.41	8.57	8.60	8.85
	4H	8.02	8.07	8.23	8.27	8.52	8.35	8.40	8.56	8.59	8.84
	6H	8.01	8.06	8.22	8.26	8.51	8.33	8.38	8.54	8.58	8.83
	8H	8.00	8.05	8.21	8.25	8.50	8.32	8.37	8.54	8.57	8.83
	12H	7.99	8.04	8.21	8.24	8.50	8.31	8.36	8.53	8.57	8.82
4H	2H	8.18	8.24	8.40	8.43	8.68	8.95	9.00	9.16	9.19	9.44
	3H	8.20	8.25	8.42	8.46	8.71	8.95	9.00	9.17	9.20	9.46
	4H	8.19	8.24	8.42	8.46	8.71	8.93	8.98	9.16	9.19	9.45
	6H	8.17	8.22	8.41	8.44	8.71	8.91	8.96	9.14	9.18	9.44
	8H	8.16	8.21	8.41	8.44	8.70	8.89	8.94	9.14	9.17	9.43
	12H	8.15	8.20	8.40	8.43	8.70	8.88	8.93	9.13	9.16	9.43
8H	4H	8.18	8.23	8.39	8.43	8.68	9.06	9.11	9.28	9.31	9.56
	6H	8.17	8.21	8.42	8.45	8.72	9.05	9.09	9.30	9.33	9.60
	8H	8.15	8.20	8.41	8.44	8.72	9.03	9.08	9.29	9.32	9.60
	12H	8.14	8.18	8.41	8.43	8.71	9.02	9.06	9.28	9.31	9.59
12H	4H	8.18	8.22	8.43	8.46	8.73	9.09	9.14	9.34	9.37	9.64
	6H	8.16	8.20	8.42	8.45	8.72	9.07	9.11	9.33	9.36	9.64

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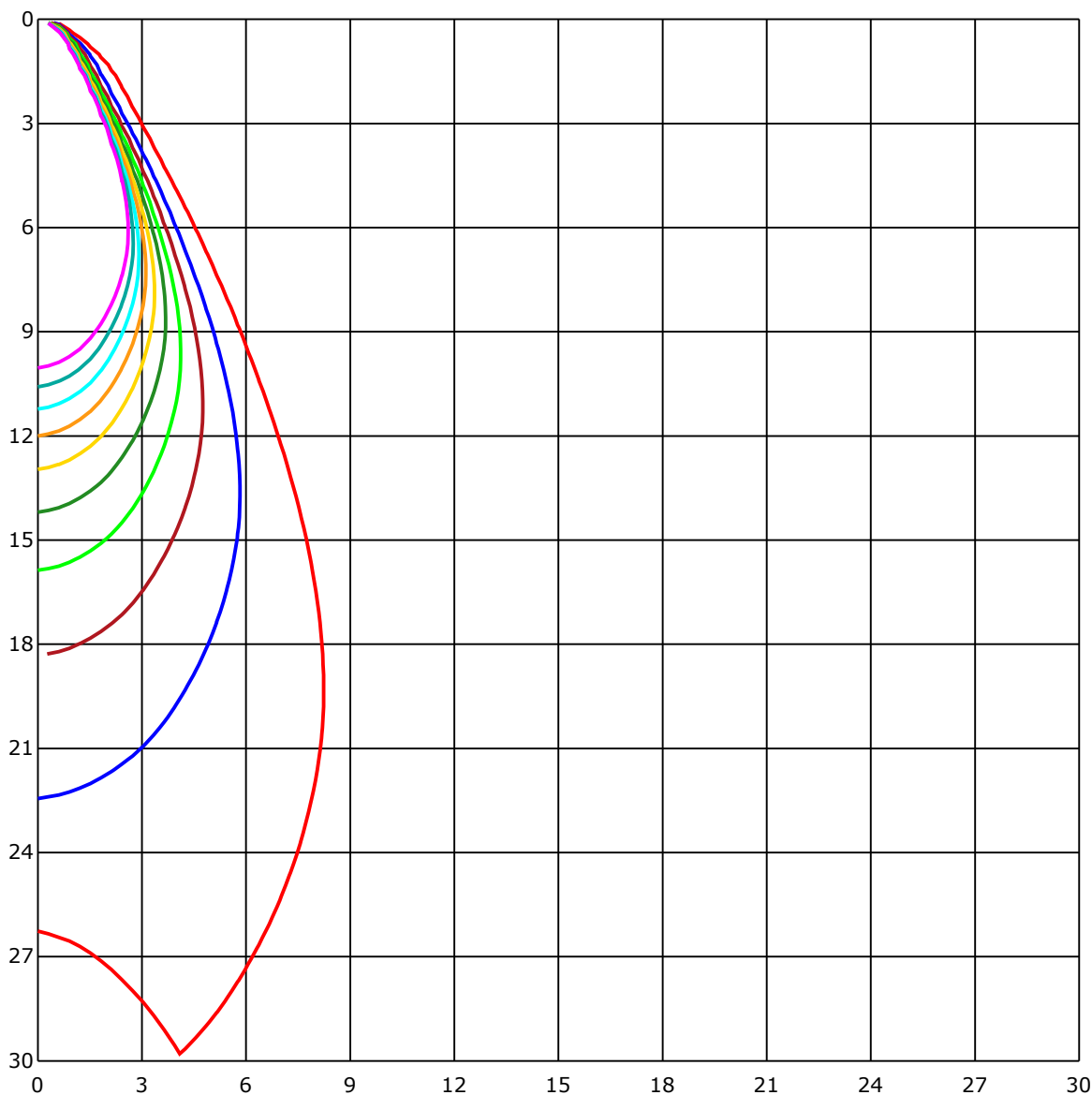
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

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SPACE ISOLX DIAGRAM



Unit of illumination:lx

64.246
57.821
51.397
44.972
38.547

32.123
25.698
19.274
12.849
6.425

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G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	6472.39	6378.85	6423.6	6449.48	6472.39	6378.85	6423.6	6449.48	6472.39	
G1	6438.58	6347.64	6421.19	6440.57	6482.87	6399.72	6415.39	6438.53	6438.58	
G2	6400.64	6297.36	6400.5	6429.58	6488.02	6410.66	6390.26	6419.19	6400.64	
G3	6338.78	6236.98	6368.74	6396.52	6477.95	6398.84	6354.78	6381.07	6338.78	
G4	6264.85	6164.73	6328.16	6358.91	6452.49	6384.97	6305.06	6333.82	6264.85	
G5	6173.73	6079.21	6278.68	6311.19	6423.18	6350.0	6238.7	6265.78	6173.73	
G6	6077.91	5975.61	6213.33	6239.26	6380.89	6306.08	6153.97	6185.69	6077.91	
G7	5966.1	5858.28	6133.05	6165.19	6324.87	6252.75	6056.12	6093.31	5966.1	
G8	5845.38	5735.66	6040.3	6067.99	6251.92	6184.21	5947.32	5982.1	5845.38	
G9	5702.08	5600.19	5950.98	5971.29	6164.31	6103.88	5829.06	5867.18	5702.08	
G10	5553.17	5459.44	5834.53	5857.16	6067.29	6010.71	5695.26	5732.87	5553.17	
G11	5385.24	5304.96	5706.39	5734.03	5951.96	5896.3	5549.18	5587.9	5385.24	
G12	5214.76	5142.97	5569.26	5597.41	5831.75	5772.9	5386.12	5429.06	5214.76	
G13	5037.05	4971.56	5426.38	5452.76	5695.59	5634.37	5216.2	5262.02	5037.05	
G14	4861.0	4801.41	5269.95	5293.6	5557.57	5482.63	5041.96	5092.19	4861.0	
G15	4678.89	4626.57	5111.99	5134.39	5399.11	5323.84	4861.38	4917.35	4678.89	
G16	4494.35	4447.93	4952.55	4956.63	5230.53	5159.67	4671.88	4738.8	4494.35	
G17	4307.23	4269.89	4791.16	4792.41	5062.6	4994.1	4477.38	4551.77	4307.23	
G18	4119.87	4084.25	4615.91	4617.53	4895.32	4816.02	4286.03	4368.54	4119.87	
G19	3923.42	3887.48	4441.81	4431.28	4717.33	4629.4	4093.53	4183.31	3923.42	
G20	3733.97	3693.35	4261.59	4246.85	4531.59	4441.02	3913.73	3990.39	3733.97	
G21	3533.12	3498.15	4080.45	4060.65	4346.51	4254.36	3715.24	3801.96	3533.12	
G22	3326.23	3294.23	3897.17	3873.33	4167.31	4073.72	3512.16	3605.28	3326.23	
G23	3103.72	3079.09	3721.5	3678.78	3979.49	3892.49	3301.79	3395.98	3103.72	
G24	2867.16	2849.77	3512.11	3485.26	3788.79	3687.55	3075.06	3189.1	2867.16	
G25	2629.25	2617.93	3299.89	3269.52	3595.03	3501.3	2839.15	2958.52	2629.25	
G26	2377.66	2377.98	3087.44	3040.65	3386.48	3286.12	2606.43	2725.94	2377.66	
G27	2135.9	2137.47	2853.99	2799.12	3176.3	3068.52	2361.05	2486.87	2135.9	
G28	1882.08	1907.4	2633.65	2549.43	2945.86	2840.17	2121.29	2239.13	1882.08	
G29	1641.16	1673.3	2391.34	2296.64	2714.9	2600.77	1880.37	1994.68	1641.16	
G30	1415.72	1453.15	2147.54	2047.13	2461.04	2353.54	1649.04	1755.8	1415.72	
G31	1206.61	1254.06	1903.79	1799.07	2211.17	2116.37	1424.49	1530.74	1206.61	
G32	1027.46	1073.89	1676.36	1570.34	1961.76	1877.21	1225.16	1318.19	1027.46	
G33	874.61	916.25	1457.32	1355.71	1724.91	1650.94	1049.07	1126.71	874.61	
G34	740.9	780.51	1263.01	1163.67	1497.95	1440.44	892.09	957.71	740.9	
G35	628.54	667.86	1084.13	989.57	1288.61	1242.42	759.22	809.31	628.54	
G36	534.02	569.68	929.24	843.53	1099.3	1068.32	648.52	686.64	534.02	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	454.53	487.23	794.79	711.97	935.73	914.58	552.01	582.67	454.53	
G38	387.24	417.66	682.01	607.39	795.86	784.17	475.31	496.97	387.24	
G39	330.15	361.78	586.75	514.64	677.23	669.86	408.34	427.59	330.15	
G40	282.34	314.11	506.38	441.27	577.71	575.9	353.66	369.25	282.34	
G41	245.93	277.24	435.33	378.71	496.04	497.15	308.73	321.8	245.93	
G42	218.06	246.3	373.47	327.69	424.94	431.72	270.05	284.19	218.06	
G43	194.59	222.37	323.8	286.33	367.21	374.44	237.21	253.54	194.59	
G44	175.21	201.69	285.72	253.49	317.82	327.65	211.66	228.54	175.21	
G45	158.75	185.18	254.42	227.06	277.75	291.71	191.26	208.65	158.75	
G46	144.0	171.31	228.82	206.05	246.16	260.31	175.26	191.67	144.0	
G47	131.57	159.07	207.3	188.89	220.84	234.57	161.25	177.67	131.57	
G48	121.23	148.59	188.89	174.7	200.11	213.42	149.33	165.93	121.23	
G49	112.28	139.04	173.26	162.22	182.21	196.12	138.34	156.06	112.28	
G50	104.62	130.5	159.86	152.11	166.72	181.93	129.44	147.06	104.62	
G51	98.09	122.48	147.99	142.79	153.41	169.37	120.95	138.62	98.09	
G52	92.52	115.24	138.53	134.54	141.73	159.26	113.81	131.8	92.52	
G53	87.19	108.57	129.62	126.98	131.85	150.3	107.41	124.89	87.19	
G54	81.95	102.68	121.97	120.49	123.08	142.24	101.75	119.05	81.95	
G55	76.98	96.46	115.15	113.95	115.99	135.14	96.46	112.74	76.98	
G56	72.07	91.04	109.4	108.29	109.26	128.42	91.96	107.5	72.07	
G57	67.38	85.7	103.37	102.95	103.14	122.39	87.37	102.03	67.38	
G58	62.56	80.18	98.32	97.85	97.44	116.59	83.38	96.93	62.56	
G59	57.88	74.9	93.17	92.84	92.2	110.51	78.93	91.59	57.88	
G60	52.78	69.66	88.53	87.93	87.05	105.04	74.76	86.54	52.78	
G61	46.89	64.74	84.08	83.25	81.76	100.03	70.49	81.34	46.89	
G62	40.39	59.83	79.44	78.14	76.29	94.51	66.5	76.2	40.39	
G63	33.72	54.82	74.8	73.09	71.05	89.51	62.05	70.86	33.72	
G64	29.36	49.9	70.4	67.99	65.81	83.89	56.9	65.3	29.36	
G65	26.06	44.52	64.83	62.7	60.38	78.56	51.34	60.15	26.06	
G66	22.68	39.19	59.73	57.55	53.94	73.0	47.07	54.82	22.68	
G67	19.52	34.09	55.51	52.36	45.63	67.8	43.45	49.21	19.52	
G68	16.65	28.85	51.89	46.7	39.93	62.1	40.3	43.22	16.65	
G69	14.05	24.25	47.86	41.27	35.62	56.81	36.87	37.56	14.05	
G70	11.64	20.31	44.43	35.94	31.86	51.2	33.67	32.79	11.64	
G71	9.51	17.48	40.81	30.89	28.43	45.26	30.47	28.24	9.51	
G72	7.7	14.61	37.75	26.62	25.0	39.61	27.45	24.63	7.7	
G73	6.4	11.97	34.5	21.98	21.98	34.32	24.25	21.56	6.4	

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/10/26 15:28:28

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

Test Time: 2024/10/26 15:28:28

Remarks: