

Report No.:

Test Time: 2025/5/13 9:36:03

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP101CT095H135-60°-40W
Lamp Type:
Luminous Width: 86 mm
Luminous Length: 86 mm
Luminous Height: 100 mm

Voltage(V): 219.90 V
Current(A): 0.1850 A
Power(W): 39.74 W
Power Factor: 0.9730
Lamp Luminous Flux: 3641.00

Photometric Results

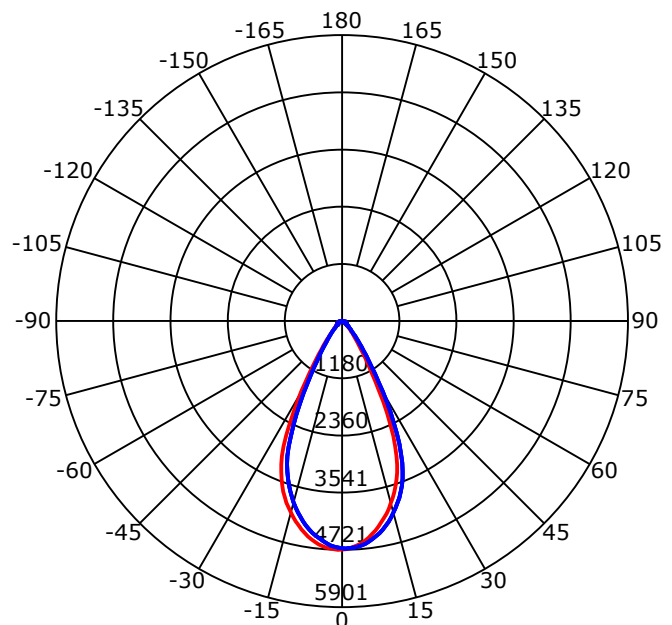
CIE Class: Direct
Luminaire Luminous Flux: 3641.001 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 91.62 lm/W
Beam Angle(50%) C0-180,C90-270: 52.2,52.2
Field Angle(10%) C0-180,C90-270: 76.5,78.1
S/MH C0-180,C90-270: 0.849,0.849

Max. Intensity: 4720.78 cd
Max.Intensity Angle: C=180 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 4716.48 cd
Effective Luminous Flux: 3148.02 lm
ERP(ϕ use)(120deg): 3484.03 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 52.2 deg,52.2 deg

C0-180 — C90-270

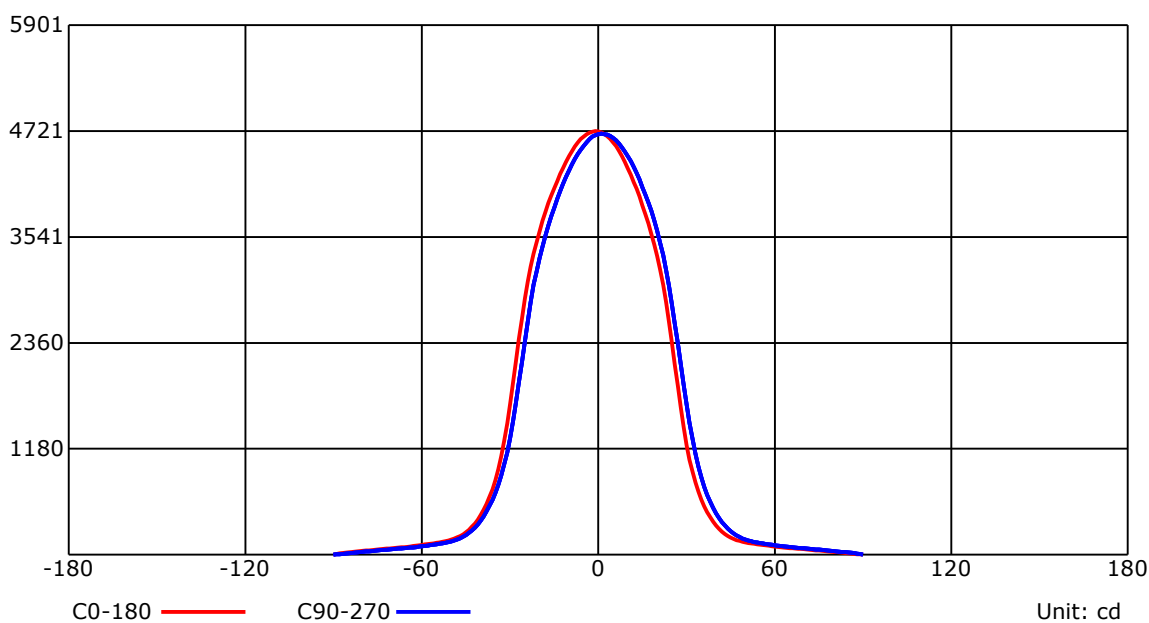
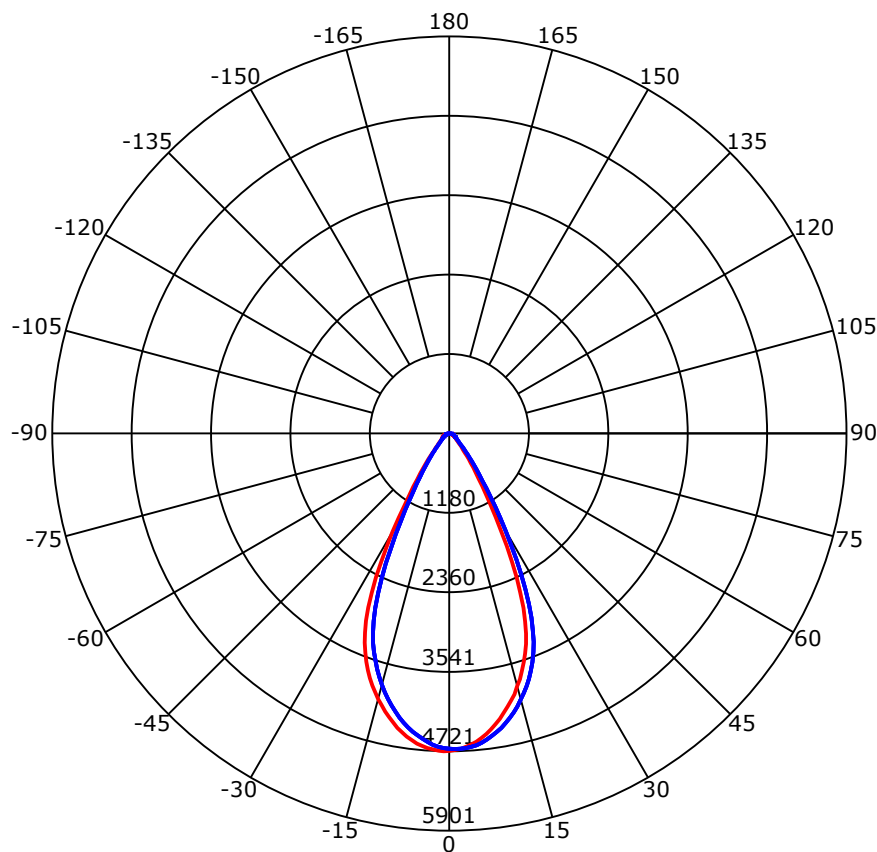
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/5/13 9:36:03

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

Report No.:

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Luminous Intensity Distribution Curve



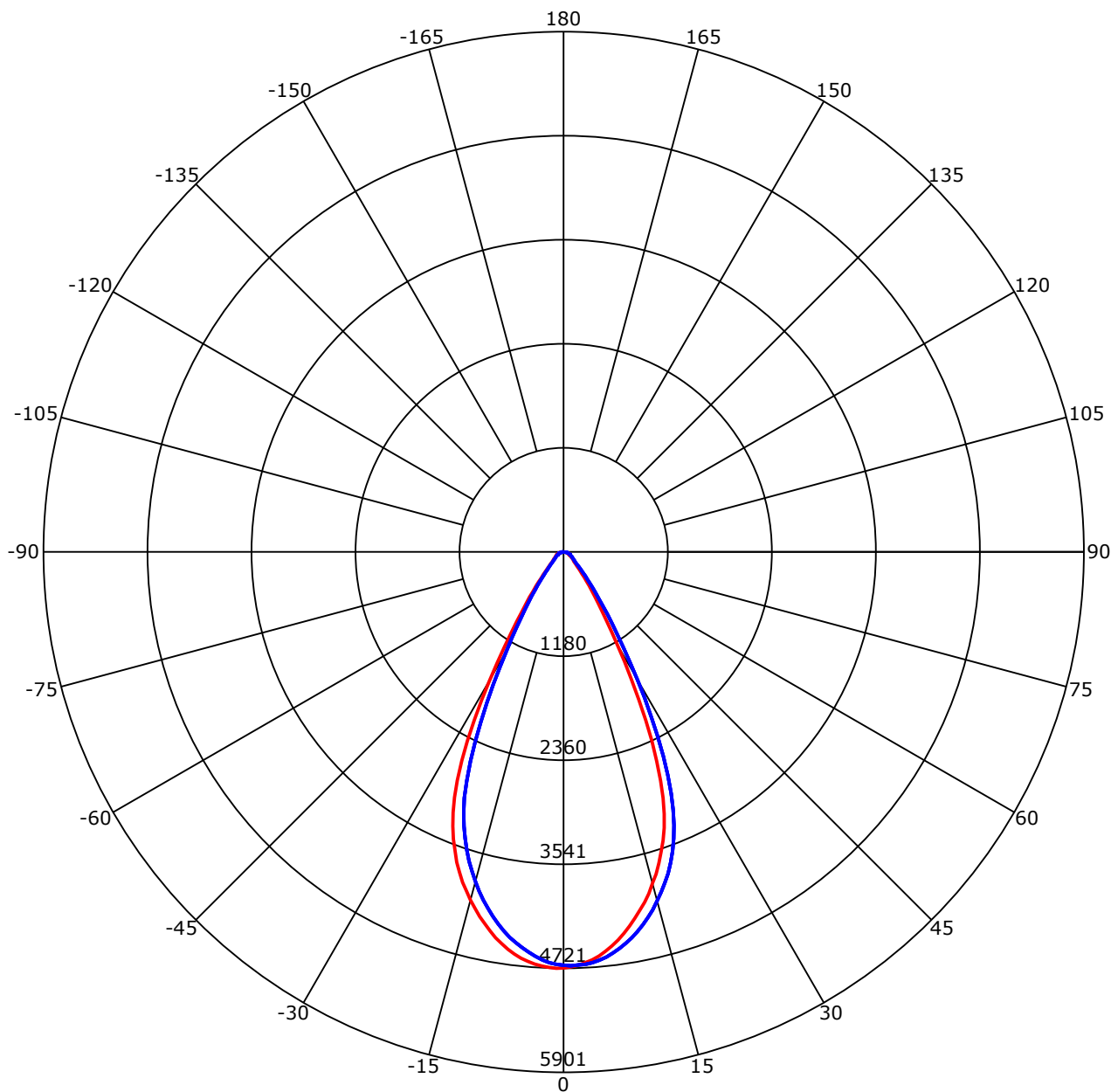
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Test Speed: High
Temperature: 25
Operators: QC01
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Test Distance: 6.87 m
Remarks:

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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: 2025/5/13 9:36:03

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

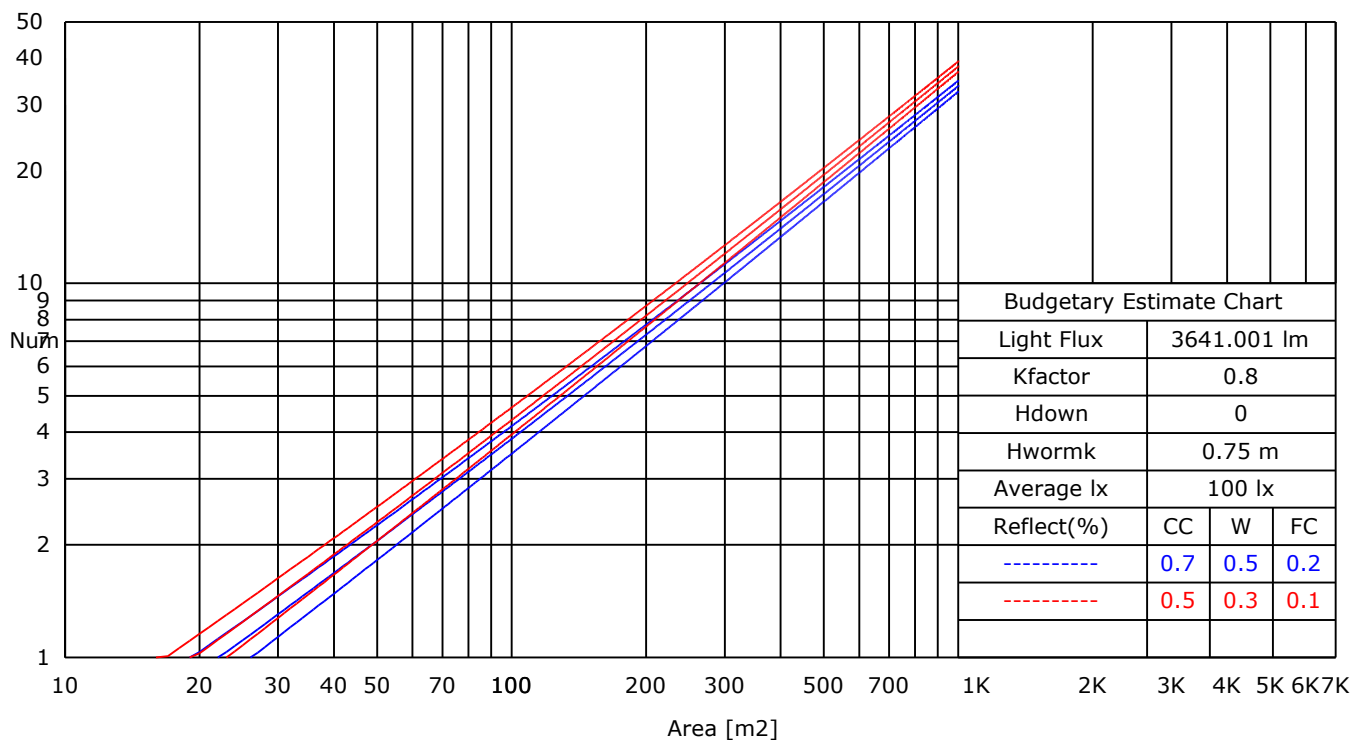
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UTILIZATION FACTORS TABLE

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	1.05	1.03	1.01	1.03	1.01	1.00	1.00	0.97	0.95	0.95	0.93	0.90	0.88	0.86	0.84	0.79
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	0.94	0.93	0.92	0.93	0.91	0.90	0.91	0.88	0.86	0.87	0.84	0.81	0.82	0.79	0.76	0.72
4	0.90	0.89	0.88	0.89	0.87	0.86	0.87	0.84	0.82	0.84	0.80	0.78	0.80	0.76	0.73	0.69
5	0.87	0.85	0.84	0.86	0.84	0.82	0.84	0.81	0.78	0.81	0.77	0.74	0.77	0.73	0.70	0.66
6	0.84	0.82	0.81	0.83	0.81	0.79	0.81	0.78	0.75	0.78	0.74	0.72	0.75	0.71	0.67	0.64
7	0.81	0.79	0.78	0.80	0.78	0.76	0.78	0.75	0.73	0.75	0.72	0.69	0.73	0.68	0.65	0.61
8	0.78	0.77	0.76	0.77	0.75	0.74	0.75	0.72	0.70	0.73	0.69	0.67	0.70	0.66	0.63	0.60
9	0.76	0.74	0.74	0.75	0.73	0.72	0.73	0.70	0.68	0.71	0.67	0.65	0.69	0.64	0.61	0.58
10	0.73	0.72	0.71	0.73	0.71	0.70	0.71	0.68	0.66	0.69	0.65	0.63	0.67	0.62	0.59	0.56

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



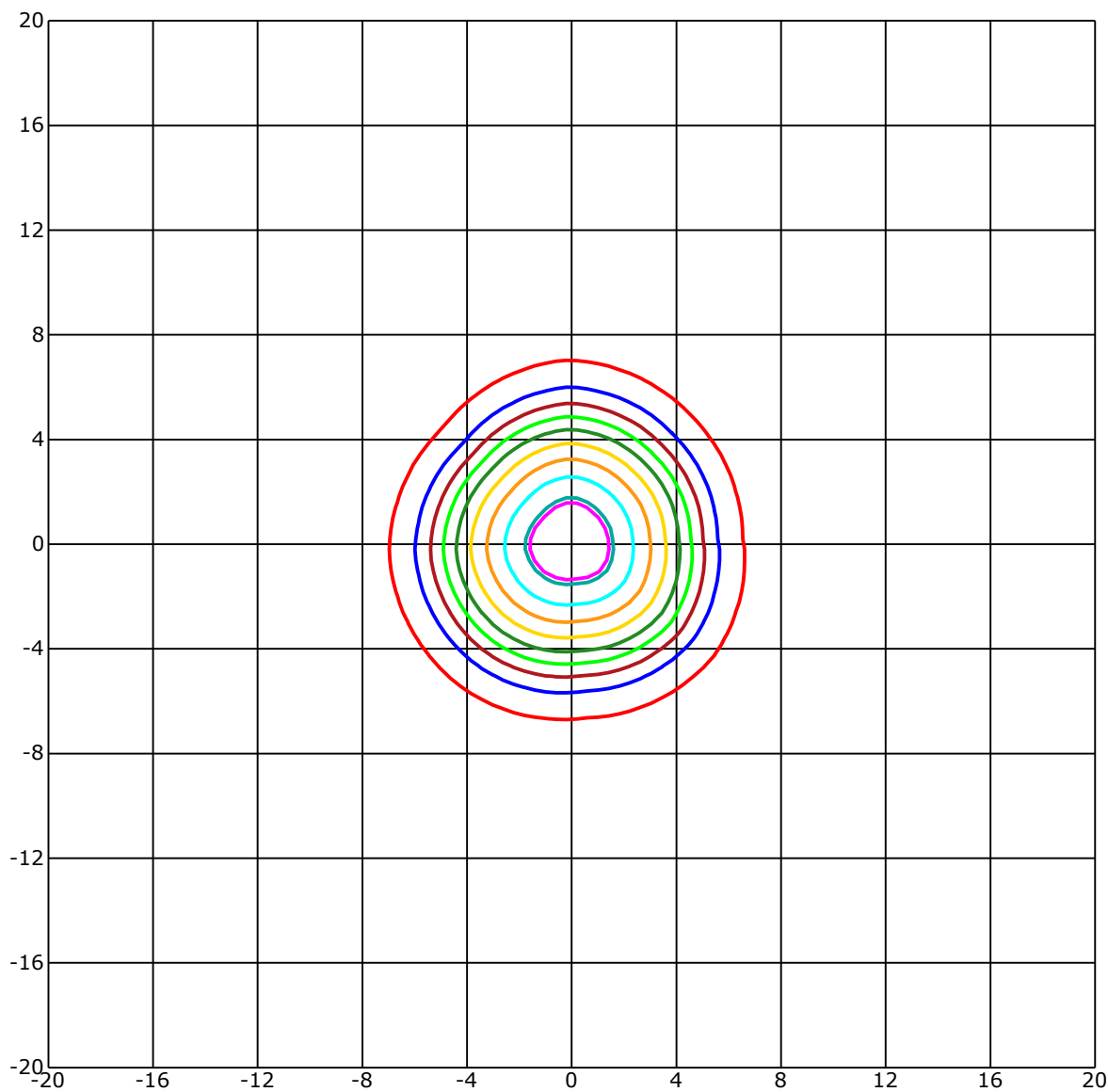
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Operators: QC01
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
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ISOLX DIAGRAM



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

43.411(92%Emax)	23.593(50%Emax)
42.468(90%Emax)	18.874(40%Emax)
37.749(80%Emax)	14.156(30%Emax)
33.03(70%Emax)	9.437(20%Emax)
28.312(60%Emax)	4.719(10%Emax)

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C Interval: 45.0 Deg
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Temperature: 25
Operators: QC01
Test Date: 2025/5/13 9:36:03

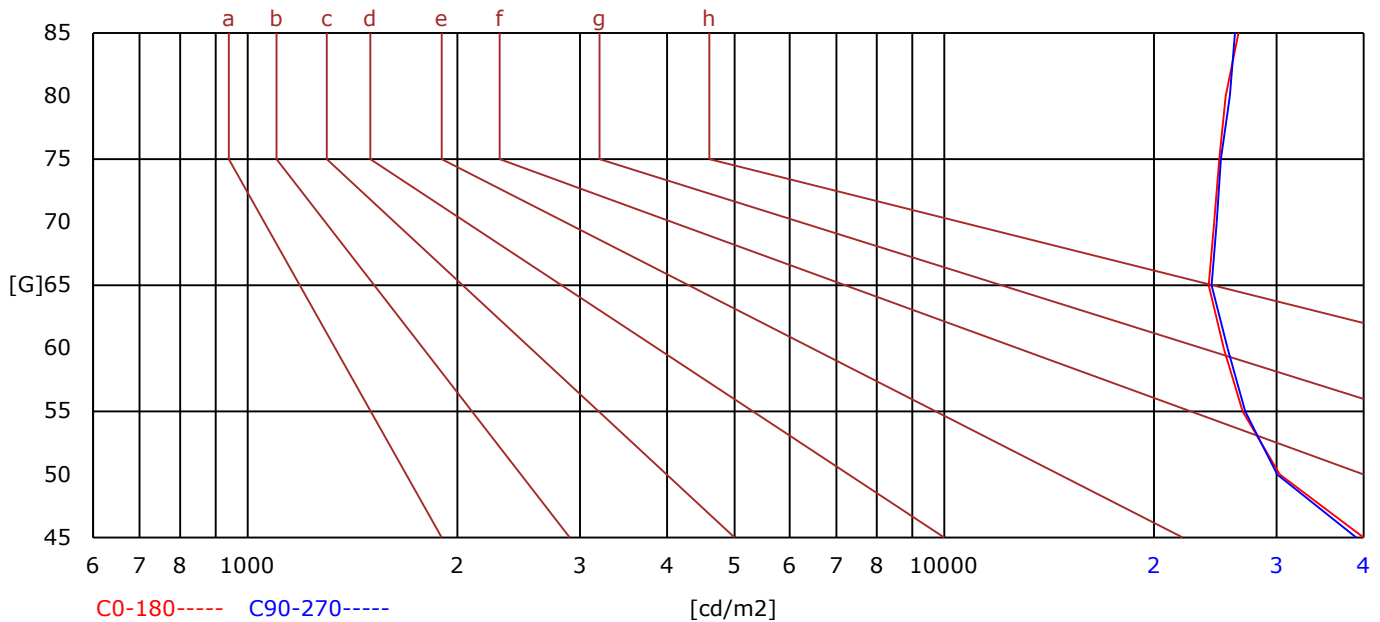
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	40647	30299	26802	25181	23963	24405	24828	25357	26432
C90	39041	30051	27024	25513	24190	24610	24952	25688	26139
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



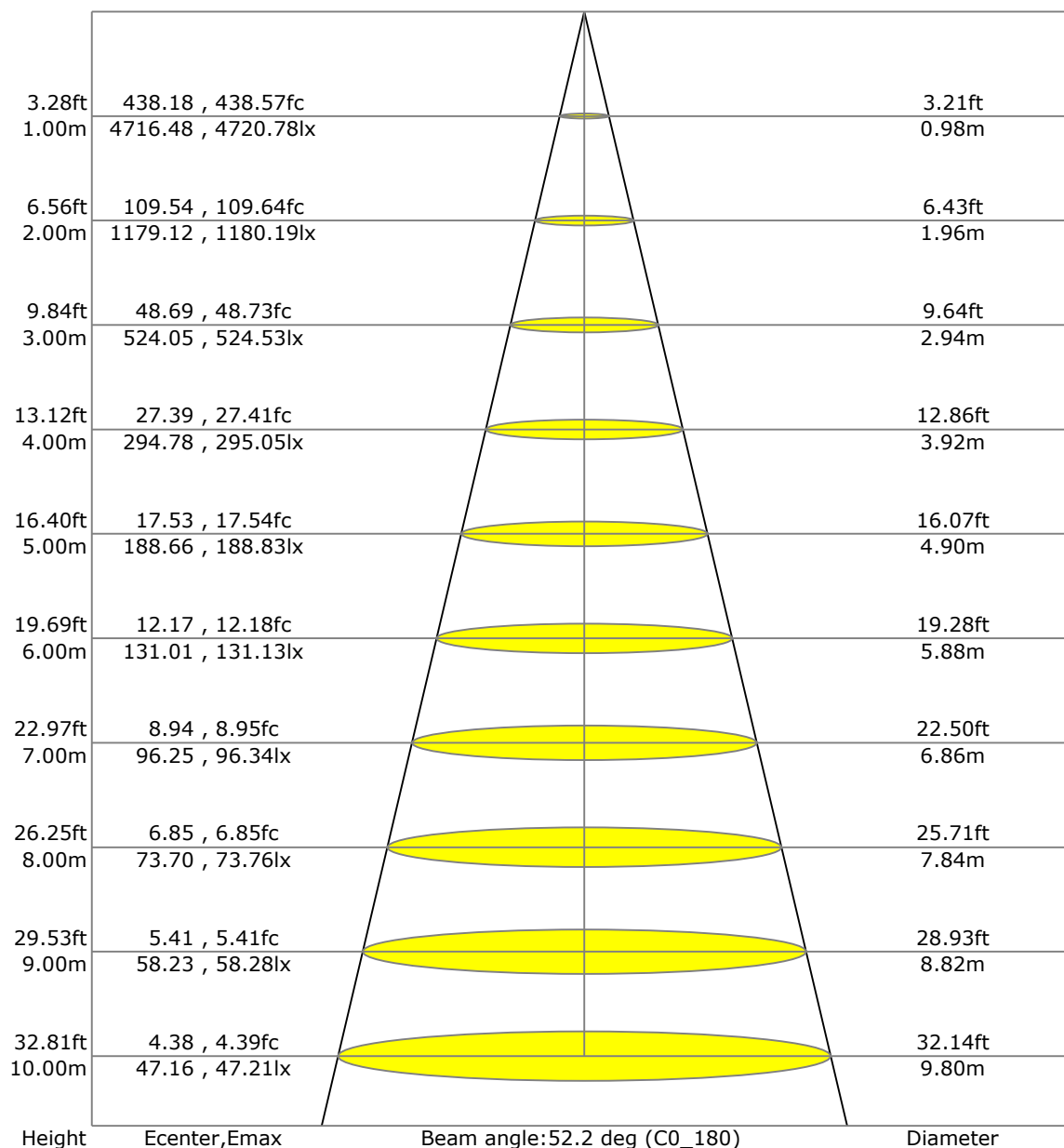
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Test Speed: High
Temperature: 25
Operators: QC01
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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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: 2025/5/13 9:36:03

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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	12.90	12.95	13.10	13.14	13.38	13.07	13.12	13.27	13.31	13.55
3H	12.98	13.03	13.19	13.23	13.47	13.14	13.19	13.34	13.38	13.63
4H	12.99	13.04	13.20	13.24	13.49	13.14	13.19	13.35	13.39	13.64
6H	12.98	13.04	13.20	13.24	13.49	13.13	13.18	13.35	13.38	13.63
8H	12.97	13.03	13.19	13.23	13.48	13.12	13.17	13.34	13.38	13.63
12H	12.96	13.02	13.18	13.22	13.48	13.11	13.16	13.33	13.37	13.62
4H 2H	14.14	14.19	14.35	14.39	14.63	14.47	14.52	14.68	14.72	14.97
3H	14.39	14.44	14.61	14.65	14.90	14.70	14.75	14.92	14.96	15.21
4H	14.46	14.51	14.69	14.73	14.98	14.76	14.81	14.99	15.02	15.28
6H	14.49	14.54	14.73	14.76	15.02	14.78	14.83	15.02	15.05	15.31
8H	14.49	14.54	14.73	14.76	15.03	14.77	14.82	15.02	15.05	15.31
12H	14.48	14.53	14.73	14.76	15.03	14.76	14.81	15.01	15.04	15.31
8H 4H	14.57	14.62	14.79	14.83	15.08	15.06	15.11	15.28	15.31	15.57
6H	15.21	15.25	15.46	15.49	15.76	15.67	15.72	15.93	15.95	16.23
8H	15.23	15.28	15.50	15.52	15.80	15.69	15.73	15.95	15.98	16.25
12H	15.24	15.28	15.51	15.54	15.82	15.69	15.73	15.96	15.98	16.26
12H 4H	15.25	15.30	15.50	15.53	15.80	15.84	15.89	16.09	16.12	16.39
6H	15.39	15.44	15.66	15.68	15.96	15.98	16.02	16.24	16.27	16.54

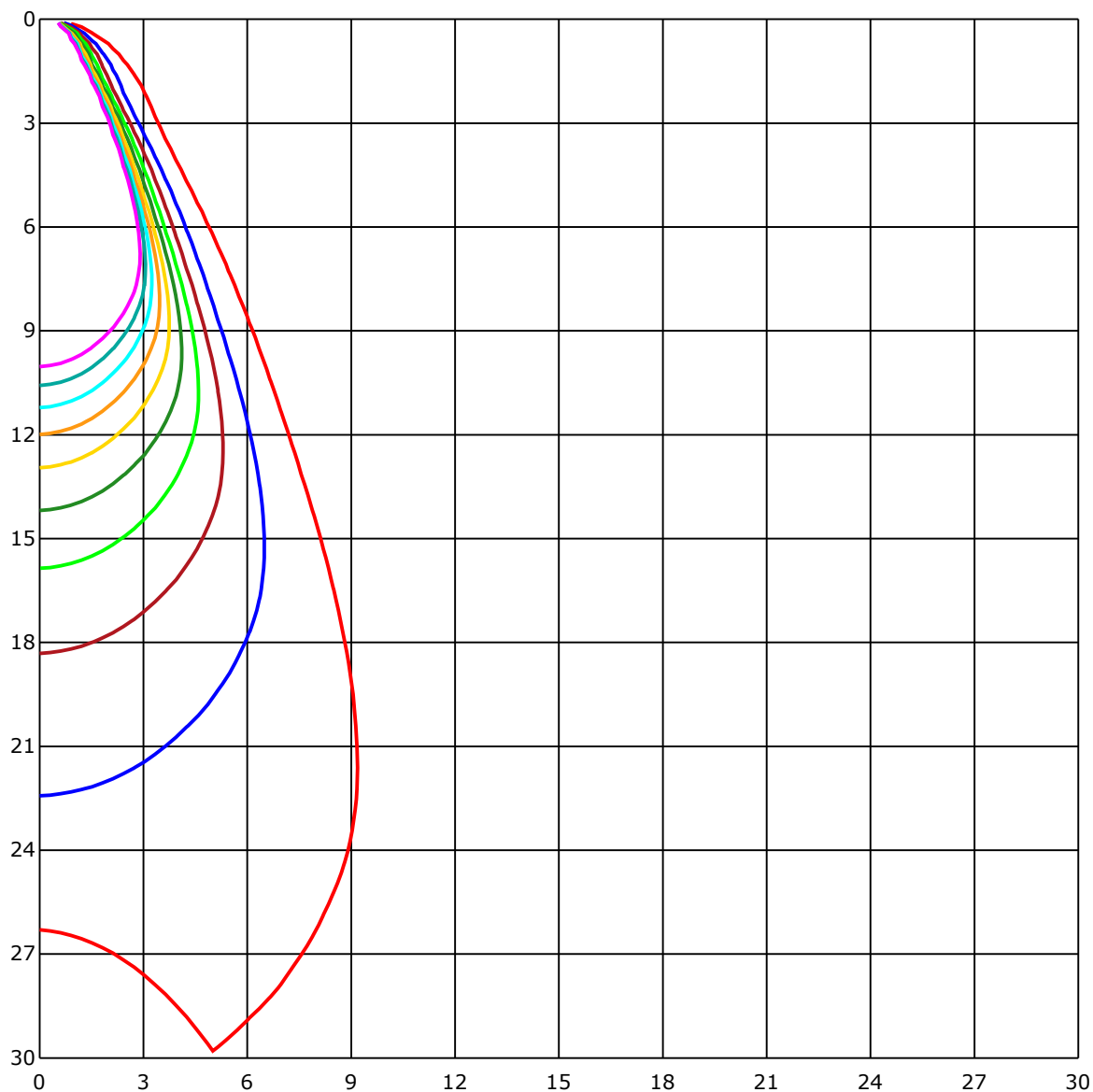
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SPACE ISOLX DIAGRAM



Unit of illumination:lx

46.88	23.44
42.192	18.752
37.504	14.064
32.816	9.376
28.128	4.688

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Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	4716.48	4676.6	4686.32	4702.46	4716.48	4676.6	4686.32	4702.46	4716.48	
G1	4706.24	4673.53	4692.13	4699.25	4720.78	4675.8	4676.32	4702.89	4706.24	
G2	4689.63	4664.52	4686.27	4684.72	4713.6	4666.36	4658.95	4695.48	4689.63	
G3	4664.23	4643.09	4681.32	4665.7	4701.66	4647.48	4632.8	4684.72	4664.23	
G4	4636.01	4621.47	4669.05	4648.85	4684.58	4628.08	4595.0	4662.2	4636.01	
G5	4597.5	4589.57	4647.62	4617.56	4659.18	4595.75	4555.54	4630.3	4597.5	
G6	4551.58	4550.77	4618.78	4573.62	4631.34	4562.29	4509.43	4585.32	4551.58	
G7	4500.27	4506.08	4580.79	4532.46	4591.79	4522.12	4463.65	4540.63	4500.27	
G8	4442.98	4457.13	4539.54	4478.66	4549.26	4478.37	4410.27	4489.7	4442.98	
G9	4376.8	4399.08	4492.53	4416.07	4495.98	4422.26	4348.49	4439.62	4376.8	
G10	4307.61	4334.23	4442.79	4350.42	4441.37	4362.41	4281.61	4377.23	4307.61	
G11	4231.39	4277.55	4386.67	4280.43	4376.43	4292.42	4208.41	4313.37	4231.39	
G12	4151.91	4195.52	4321.02	4217.61	4306.01	4228.7	4130.81	4249.47	4151.91	
G13	4077.53	4120.43	4252.91	4132.47	4242.72	4168.67	4050.06	4170.32	4077.53	
G14	3992.53	4033.45	4180.56	4059.59	4161.82	4074.74	3963.55	4104.05	3992.53	
G15	3889.26	3953.07	4094.05	3968.74	4087.11	3995.97	3869.72	4014.33	3889.26	
G16	3797.46	3862.55	4013.11	3874.58	4001.12	3907.81	3769.99	3935.75	3797.46	
G17	3690.56	3756.12	3923.29	3772.87	3919.04	3826.63	3666.26	3843.01	3690.56	
G18	3571.96	3643.65	3832.77	3658.61	3818.94	3715.25	3553.36	3746.49	3571.96	
G19	3458.59	3527.87	3726.1	3542.22	3721.81	3612.73	3433.39	3640.25	3458.59	
G20	3329.65	3388.6	3611.04	3419.09	3605.66	3491.16	3309.82	3527.5	3329.65	
G21	3181.78	3244.36	3479.4	3266.21	3486.58	3371.79	3160.4	3403.27	3181.78	
G22	3009.23	3077.43	3341.02	3114.81	3354.33	3220.29	3007.15	3279.81	3009.23	
G23	2814.92	2899.49	3174.18	2931.4	3210.66	3057.46	2815.11	3113.82	2814.92	
G24	2593.42	2697.82	2996.67	2726.85	3045.47	2872.88	2599.09	2939.38	2593.42	
G25	2365.32	2476.75	2793.96	2497.38	2856.03	2673.0	2375.85	2739.69	2365.32	
G26	2121.83	2244.07	2577.56	2258.09	2635.15	2456.46	2148.26	2521.54	2121.83	
G27	1875.98	2011.49	2350.69	2010.21	2403.69	2225.85	1917.14	2290.56	1875.98	
G28	1639.81	1784.99	2121.12	1771.87	2155.77	1993.31	1695.97	2050.33	1639.81	
G29	1420.39	1569.67	1892.31	1544.19	1920.73	1770.88	1487.55	1813.16	1420.39	
G30	1221.55	1369.28	1677.38	1339.21	1684.69	1552.64	1304.9	1582.37	1221.55	
G31	1056.03	1194.08	1469.15	1156.47	1462.77	1353.65	1139.0	1372.72	1056.03	
G32	920.29	1040.08	1284.32	1006.66	1265.35	1184.64	1001.9	1196.44	920.29	
G33	803.53	905.38	1120.41	875.6	1096.95	1035.59	883.67	1045.88	803.53	
G34	703.05	791.92	982.4	766.95	953.09	906.98	779.69	915.76	703.05	
G35	616.2	697.29	862.71	673.31	833.69	800.18	688.46	804.94	616.2	
G36	541.35	612.1	758.93	589.39	729.85	706.63	609.88	713.38	541.35	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	476.22	538.42	667.93	518.74	643.15	627.06	541.96	628.8	476.22	
G38	420.01	473.76	590.95	457.05	566.08	556.55	481.55	556.07	420.01	
G39	369.6	419.3	522.23	402.12	499.58	495.47	426.8	493.92	369.6	
G40	325.61	372.34	462.95	355.11	441.67	441.1	379.56	436.0	325.61	
G41	288.33	329.29	410.57	314.71	391.07	392.68	337.22	385.17	288.33	
G42	256.37	292.34	366.63	280.35	348.08	349.54	301.78	340.43	256.37	
G43	230.6	261.57	324.95	250.24	309.61	312.96	269.54	302.34	230.6	
G44	209.04	235.32	290.45	224.99	277.42	281.25	243.68	271.34	209.04	
G45	190.86	212.57	260.86	204.17	251.47	254.53	220.22	244.53	190.86	
G46	175.34	193.7	236.36	187.09	227.39	231.03	200.59	222.58	175.34	
G47	163.21	178.12	214.18	172.46	208.75	211.39	183.31	203.51	163.21	
G48	152.78	164.53	195.96	160.56	192.37	194.73	169.01	187.8	152.78	
G49	144.38	153.44	180.62	150.65	179.11	181.05	157.54	174.39	144.38	
G50	137.11	144.04	168.63	142.87	167.93	169.15	148.15	163.35	137.11	
G51	130.92	136.45	157.83	135.74	159.1	159.57	139.23	154.33	130.92	
G52	125.64	129.56	149.24	129.32	150.98	151.36	132.25	146.83	125.64	
G53	120.78	123.8	141.73	123.75	144.09	143.86	125.97	139.7	120.78	
G54	116.06	118.37	135.6	119.13	137.96	137.01	120.54	134.13	116.06	
G55	111.9	113.7	129.46	114.64	132.62	131.3	115.59	128.33	111.9	
G56	107.47	109.21	124.41	110.02	127.43	126.11	111.05	123.56	107.47	
G57	103.64	105.06	119.17	105.82	122.62	121.2	106.38	118.94	103.64	
G58	99.44	100.86	114.36	101.9	117.9	116.1	102.09	114.59	99.44	
G59	95.48	97.13	109.87	97.84	113.6	111.48	98.03	109.97	95.48	
G60	91.37	93.12	105.77	94.35	109.07	107.04	93.78	105.49	91.37	
G61	87.5	89.34	101.71	90.1	104.78	102.61	89.34	101.43	87.5	
G62	82.5	84.91	97.6	85.9	100.67	97.84	84.62	96.94	82.5	
G63	78.91	80.47	93.07	81.04	96.14	92.74	80.47	91.8	78.91	
G64	76.36	77.36	88.45	78.21	91.0	88.49	77.92	87.69	76.36	
G65	74.05	74.9	85.66	75.61	87.27	85.62	75.09	84.58	74.05	
G66	71.36	72.21	82.78	73.01	84.39	82.74	72.49	81.84	71.36	
G67	68.91	69.76	79.67	70.32	81.75	79.76	69.8	79.34	68.91	
G68	66.12	67.16	76.84	67.82	78.68	77.03	67.26	76.41	66.12	
G69	63.48	64.47	74.05	64.99	75.85	74.29	64.57	73.44	63.48	
G70	60.7	61.73	71.41	62.25	72.92	71.08	61.88	70.42	60.7	
G71	57.86	59.33	68.44	59.47	70.28	68.01	59.18	67.63	57.86	
G72	55.17	56.31	65.41	56.87	67.16	65.18	56.12	65.13	55.17	
G73	52.44	53.52	62.35	53.9	64.23	62.25	53.43	61.73	52.44	

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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 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: 2025/5/13 9:36:03

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks: