

Report No.:

Test Time: 2025/5/8 17:32:28

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP112CT085H48-24°-10W
Lamp Type:
Luminous Width: 58 mm
Luminous Length: 58 mm
Luminous Height: 45 mm

Voltage(V): 219.90 V
Current(A): 0.0520 A
Power(W): 10.52 W
Power Factor: 0.9160
Lamp Luminous Flux: 1070.69

Photometric Results

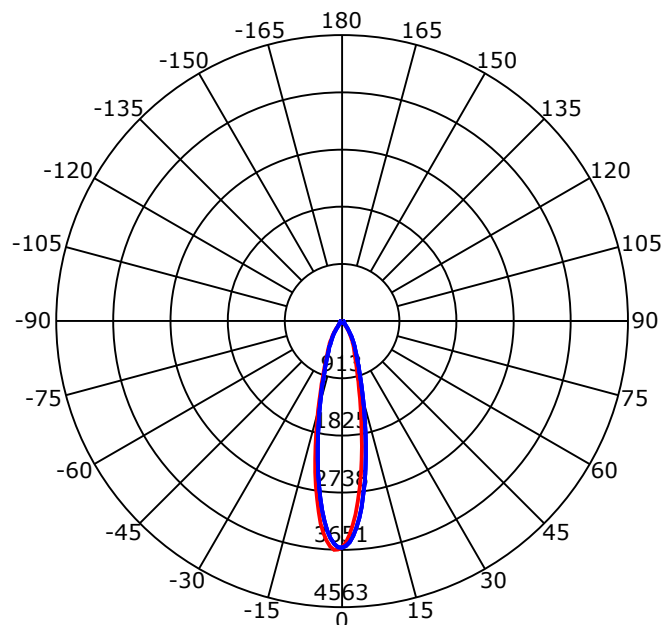
CIE Class: Direct
Luminaire Luminous Flux: 1070.688 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 101.78 lm/W
Beam Angle(50%) C0-180,C90-270: 23.0,24.2
Field Angle(10%) C0-180,C90-270: 57.1,57.6
S/MH C0-180,C90-270: 0.425,0.425

Max. Intensity: 3650.54 cd
Max.Intensity Angle: C=180 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 3608.58 cd
Effective Luminous Flux: 838.67 lm
ERP(ϕ use)(120deg): 1042.57 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 23.0 deg,24.2 deg

C0-180 — C90-270 —

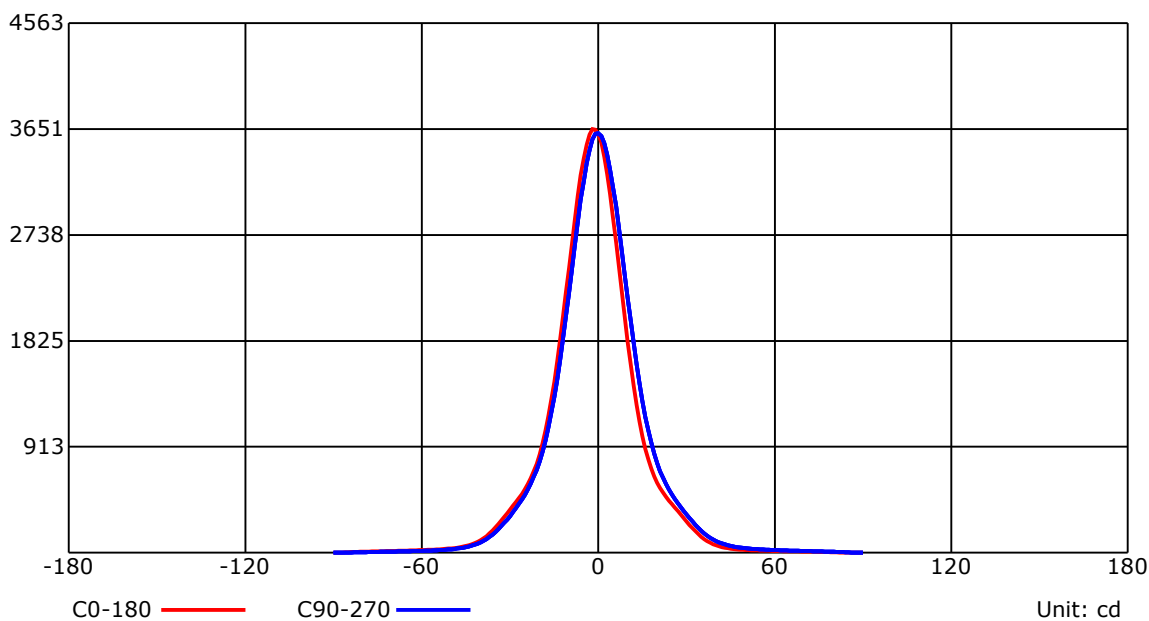
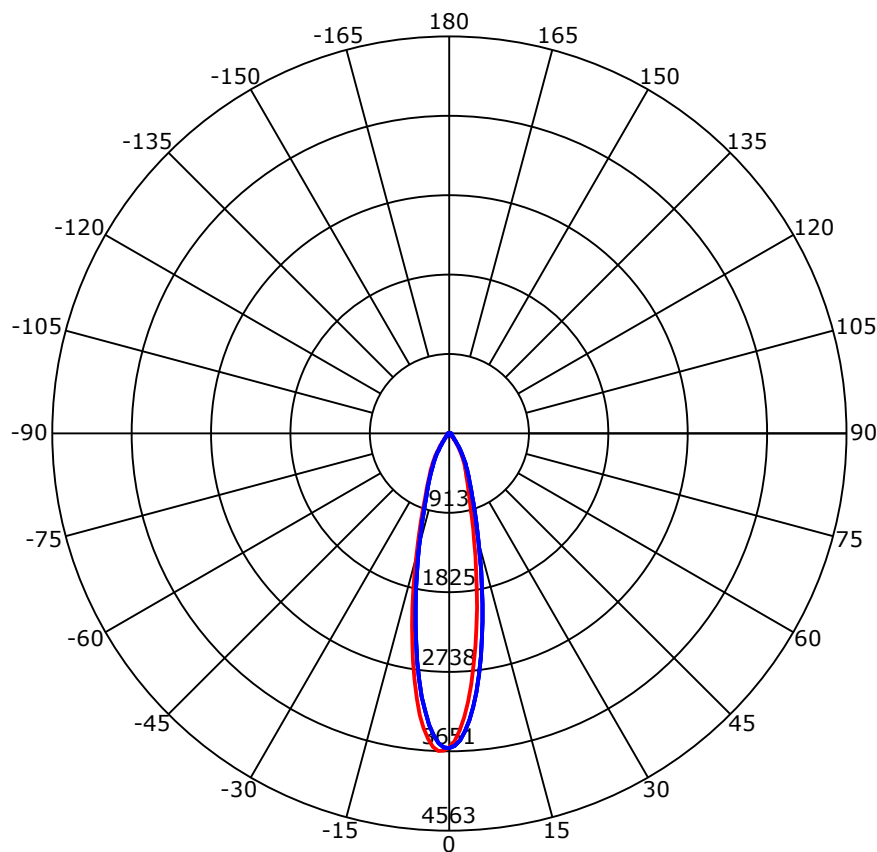
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/5/8 17:32:28

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



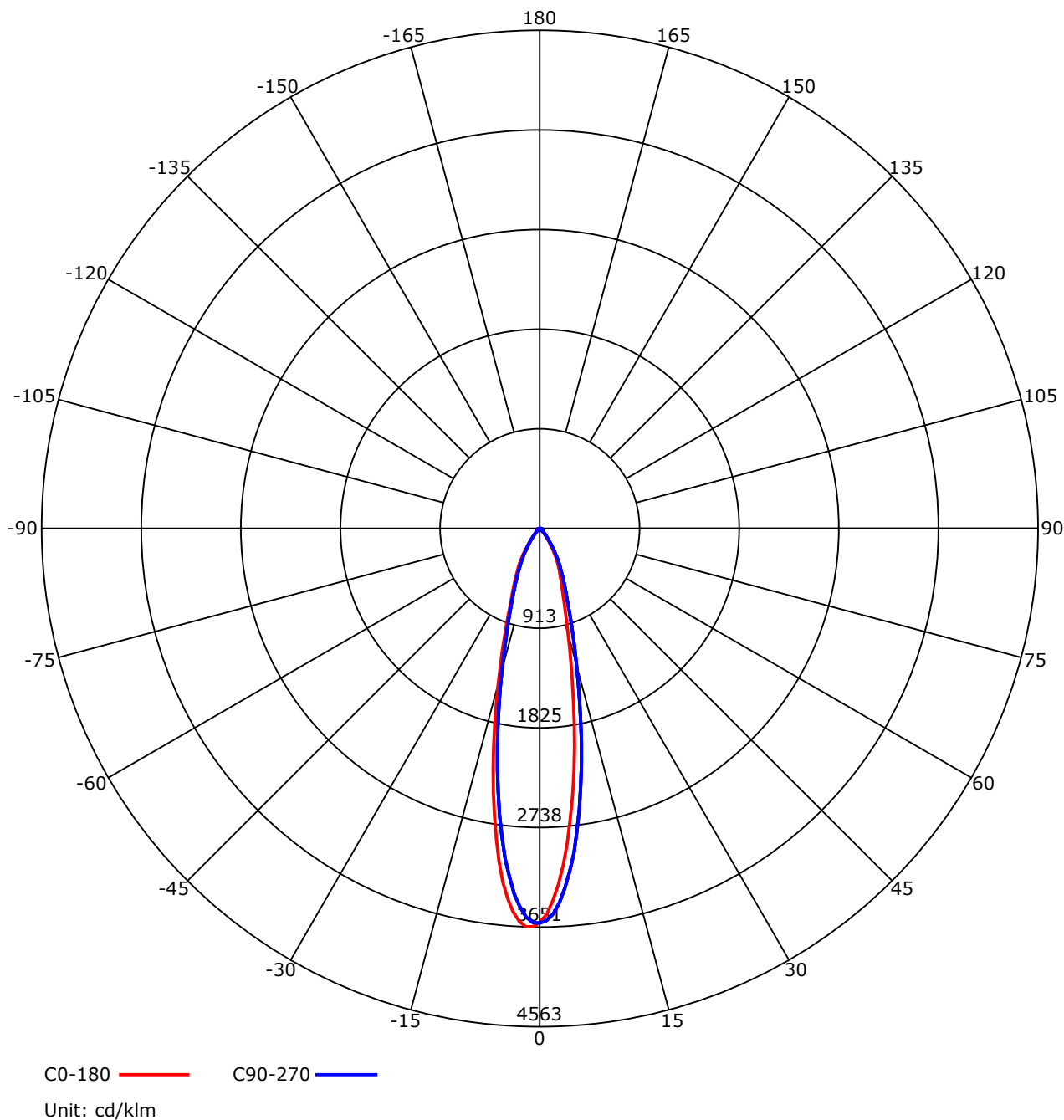
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Luminous Intensity Distribution Curve



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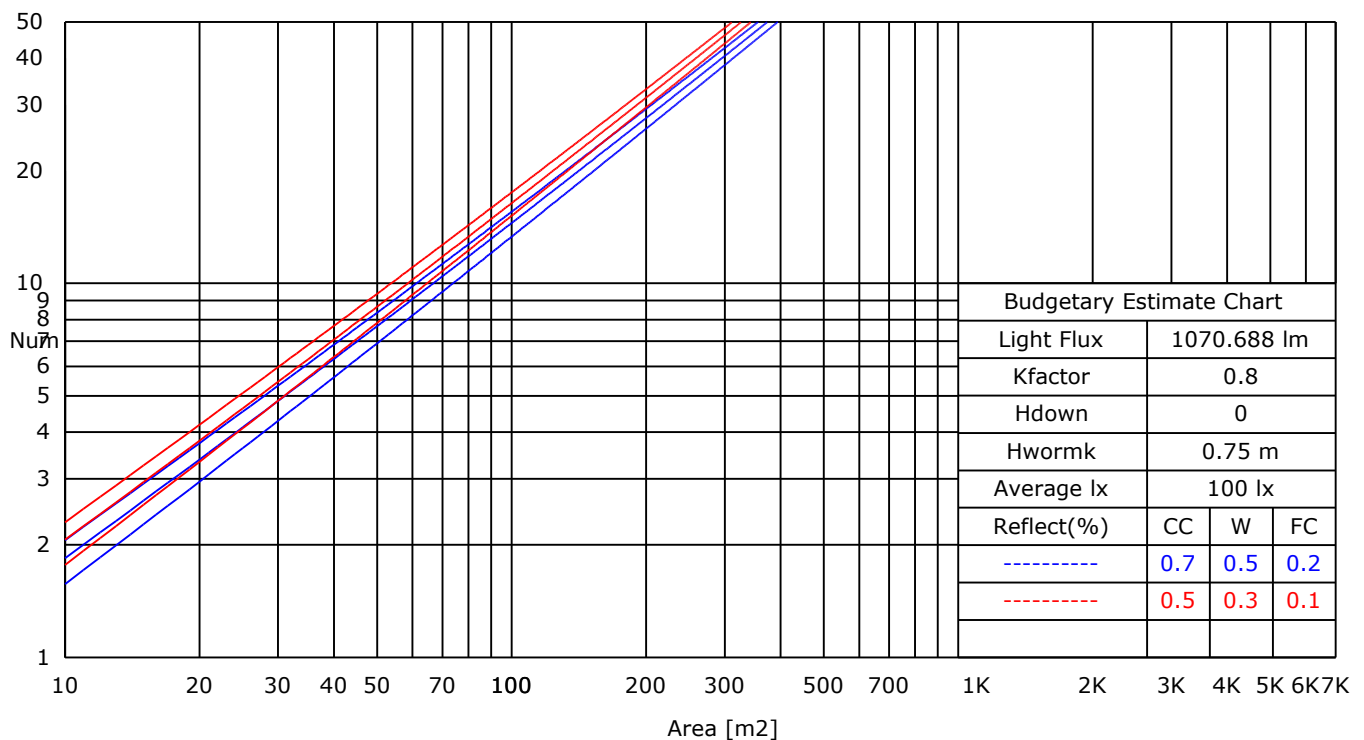
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UTILIZATION FACTORS TABLE

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	0.93	0.90	0.88	0.92	0.89	0.86	0.89	0.86	0.83	0.85	0.82	0.78	0.80	0.76	0.73	0.68
2	0.88	0.86	0.84	0.88	0.84	0.82	0.85	0.82	0.79	0.82	0.78	0.75	0.78	0.73	0.70	0.65
3	0.84	0.82	0.80	0.84	0.81	0.79	0.82	0.78	0.75	0.79	0.75	0.72	0.75	0.71	0.67	0.63
4	0.81	0.79	0.77	0.81	0.78	0.76	0.79	0.75	0.72	0.76	0.72	0.69	0.73	0.69	0.65	0.61
5	0.78	0.76	0.75	0.78	0.75	0.73	0.76	0.73	0.70	0.74	0.70	0.66	0.71	0.66	0.63	0.59
6	0.76	0.74	0.73	0.75	0.73	0.71	0.74	0.70	0.68	0.72	0.67	0.64	0.69	0.64	0.61	0.57
7	0.73	0.72	0.71	0.73	0.71	0.69	0.71	0.68	0.66	0.70	0.65	0.62	0.67	0.63	0.59	0.55
8	0.71	0.70	0.69	0.71	0.69	0.67	0.69	0.66	0.64	0.68	0.64	0.61	0.66	0.61	0.57	0.54
9	0.69	0.68	0.67	0.69	0.67	0.66	0.68	0.64	0.62	0.66	0.62	0.59	0.64	0.59	0.56	0.53
10	0.68	0.66	0.66	0.67	0.65	0.64	0.66	0.63	0.61	0.64	0.60	0.58	0.62	0.58	0.55	0.51

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



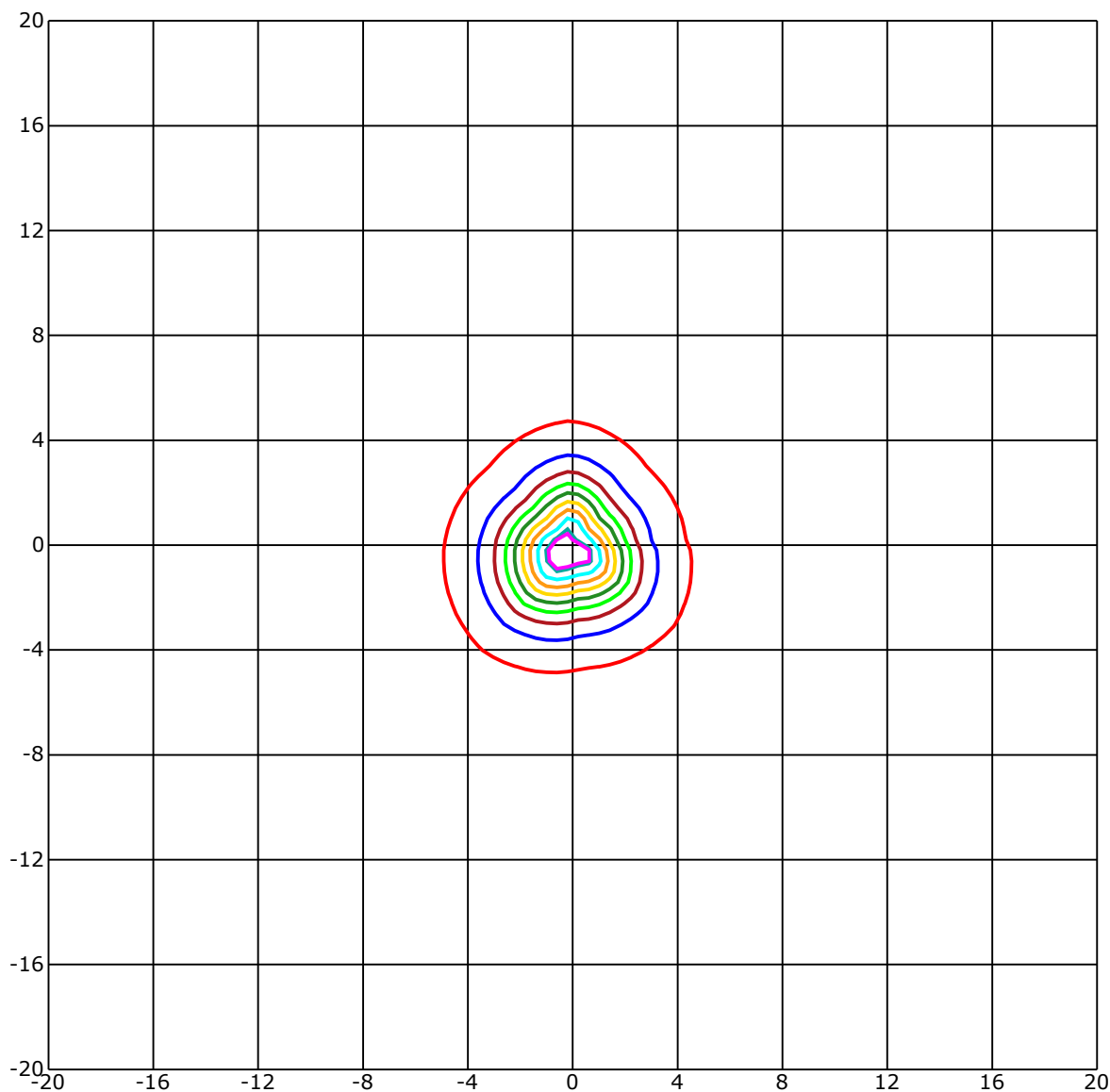
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
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ISOLX DIAGRAM



33.524(92%Emax)	18.219(50%Emax)
32.795(90%Emax)	14.575(40%Emax)
29.151(80%Emax)	10.932(30%Emax)
25.507(70%Emax)	7.288(20%Emax)
21.863(60%Emax)	3.644(10%Emax)

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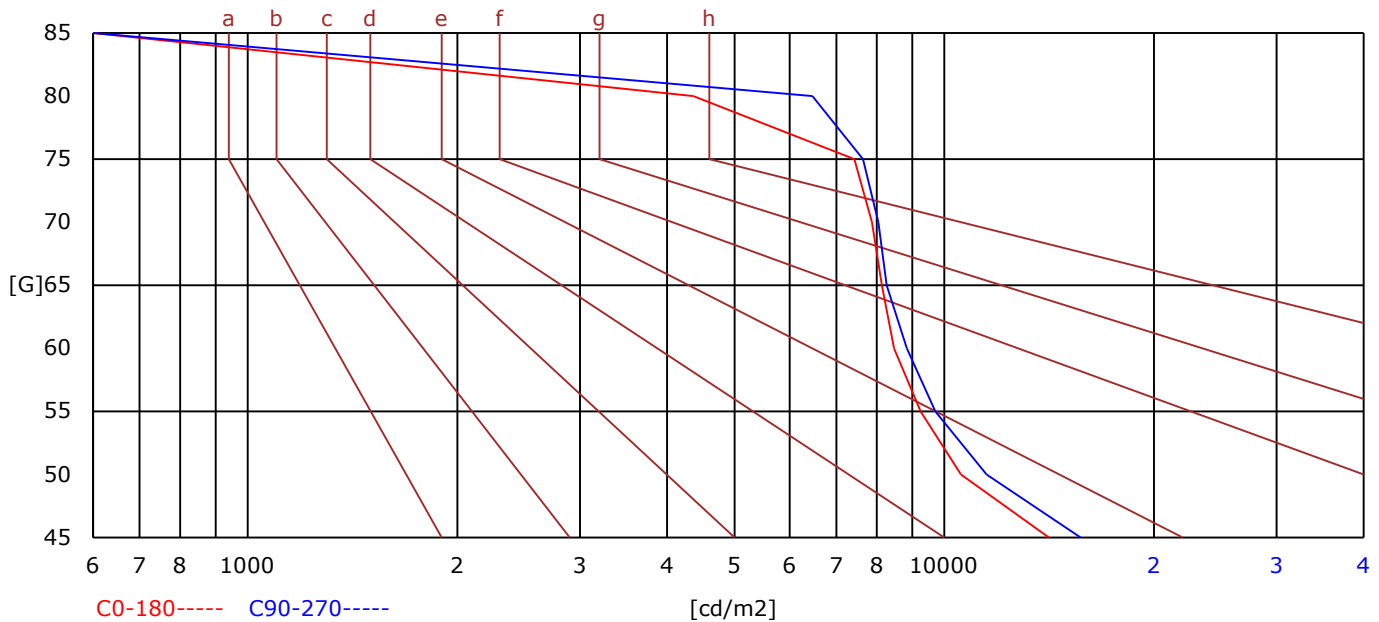
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	14127	10564	9246	8474	8133	7876	7426	4363	0
C90	15695	11503	9711	8839	8266	8040	7643	6464	0
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



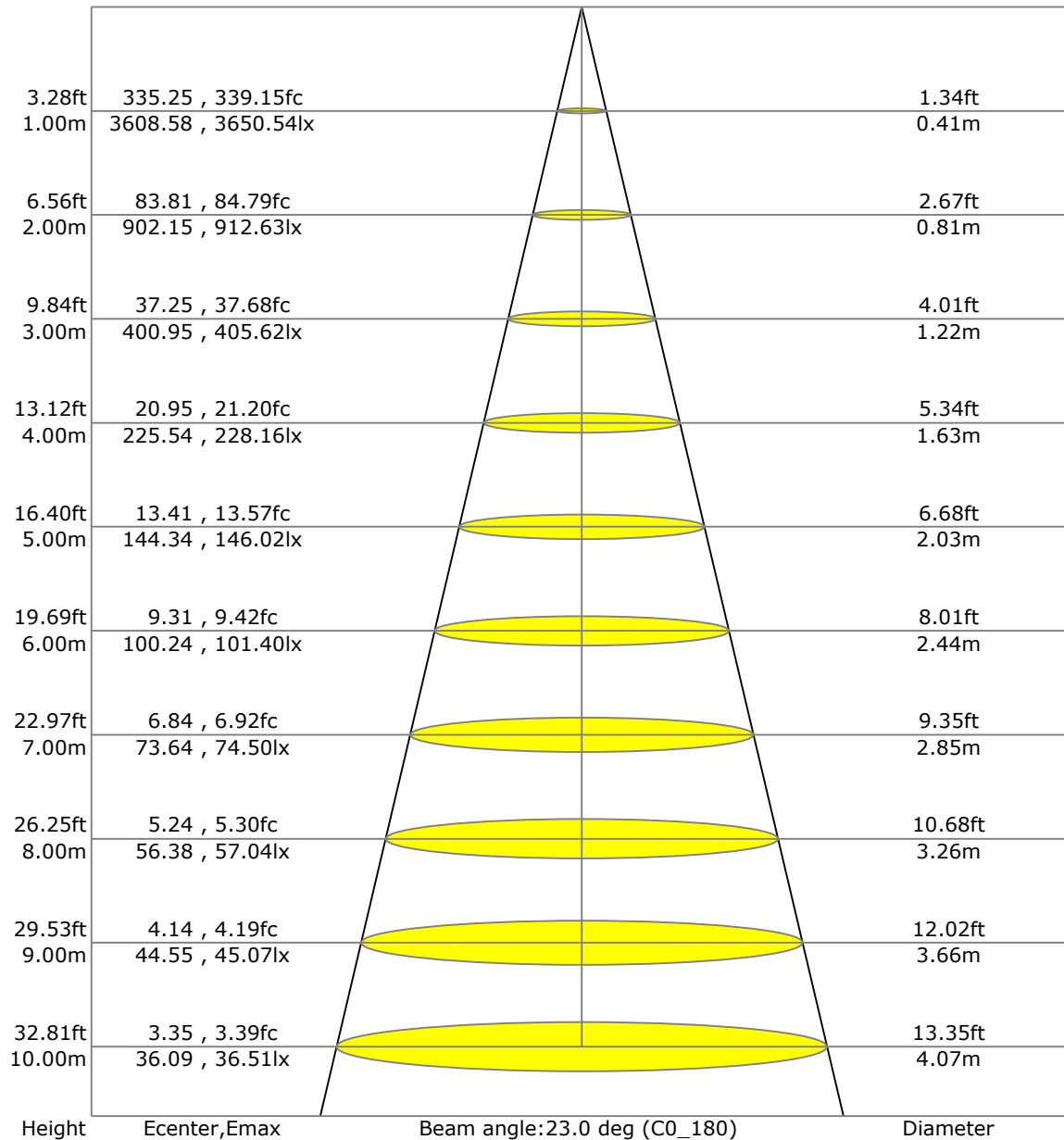
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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
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 Test Speed: High
 Temperature: 25
 Operators: QC01
 Test Date: 2025/5/8 17:32:28

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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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	10.94	11.00	11.14	11.18	11.43	11.48	11.54	11.68	11.73	11.97
3H	11.03	11.09	11.24	11.29	11.53	11.53	11.59	11.74	11.78	12.03
4H	11.05	11.11	11.26	11.31	11.56	11.53	11.59	11.74	11.79	12.04
6H	11.04	11.11	11.26	11.31	11.56	11.52	11.58	11.74	11.78	12.03
8H	11.04	11.10	11.25	11.30	11.55	11.51	11.57	11.73	11.77	12.03
12H	11.03	11.09	11.25	11.29	11.55	11.50	11.56	11.72	11.77	12.02
4H 2H	12.11	12.17	12.32	12.37	12.61	13.11	13.17	13.32	13.37	13.61
3H	12.33	12.39	12.55	12.60	12.85	13.27	13.33	13.50	13.54	13.80
4H	12.39	12.45	12.62	12.66	12.92	13.30	13.36	13.53	13.57	13.83
6H	12.40	12.46	12.64	12.68	12.95	13.29	13.35	13.53	13.57	13.84
8H	12.40	12.45	12.64	12.68	12.95	13.28	13.34	13.52	13.56	13.83
12H	12.38	12.44	12.63	12.67	12.94	13.27	13.32	13.52	13.56	13.83
8H 4H	12.39	12.45	12.60	12.65	12.90	13.74	13.80	13.96	14.00	14.25
6H	12.74	12.79	12.99	13.03	13.30	14.05	14.10	14.30	14.34	14.61
8H	12.73	12.78	12.99	13.03	13.30	14.03	14.08	14.29	14.33	14.61
12H	12.71	12.76	12.98	13.02	13.30	14.01	14.06	14.28	14.32	14.60
12H 4H	12.71	12.77	12.96	13.00	13.27	14.17	14.22	14.42	14.46	14.73
6H	12.72	12.77	12.98	13.02	13.30	14.17	14.22	14.43	14.47	14.74

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ZONAL LUMINOUS FLUX TABLE

[illegible]

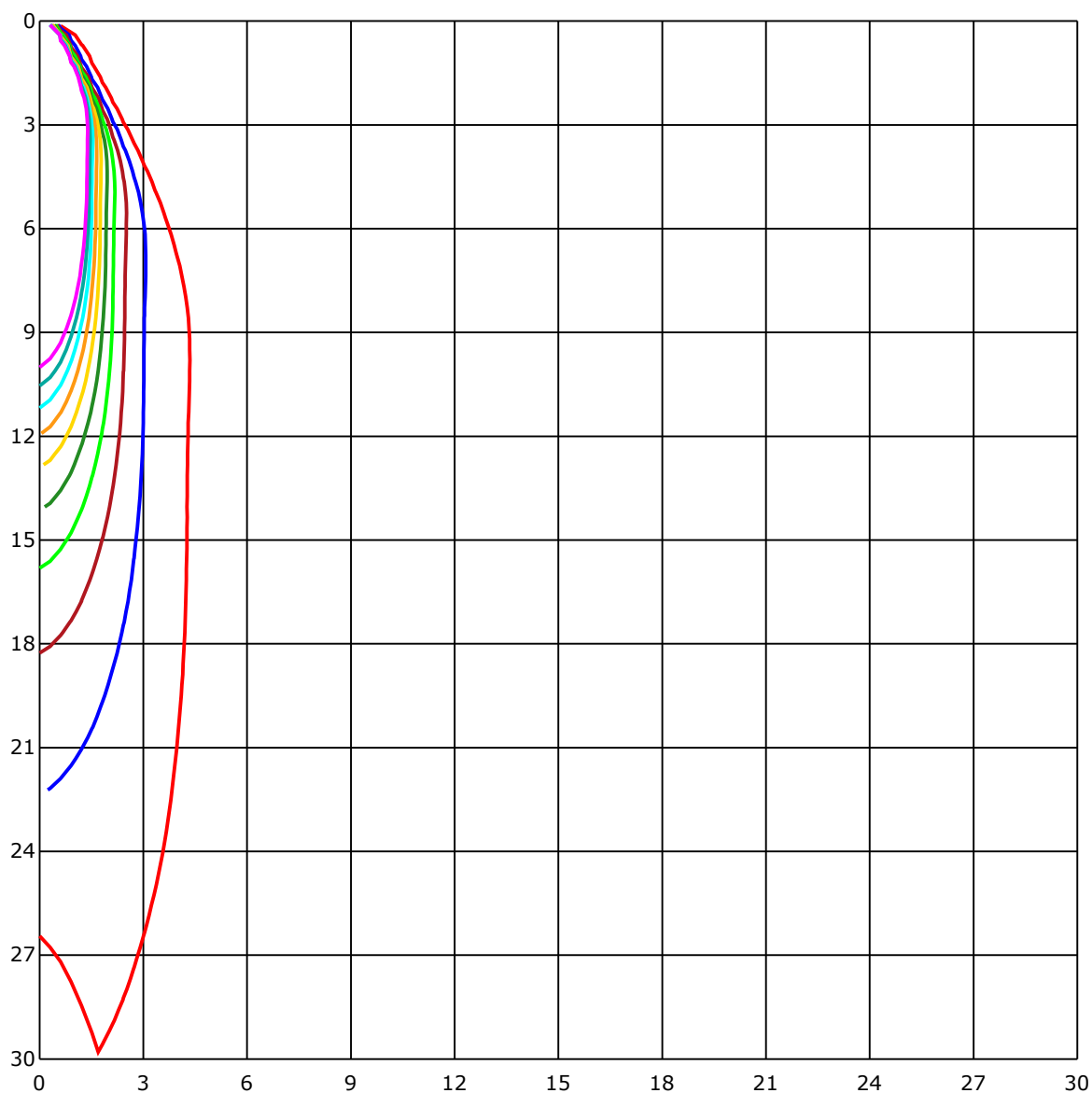
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SPACE ISOLX DIAGRAM



36.07

32.463

28.856

25.249

21.642

18.035

14.428

10.821

7.214

3.607

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Operators: QC01

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G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	3608.58	3446.84	3614.48	3572.24	3608.58	3446.84	3614.48	3572.24	3608.58	
G1	3532.83	3309.78	3588.95	3489.79	3645.25	3548.36	3609.71	3613.82	3532.83	
G2	3410.73	3144.12	3528.82	3383.59	3650.54	3616.27	3561.15	3618.02	3410.73	
G3	3262.86	2959.15	3430.08	3237.0	3603.39	3646.76	3469.4	3571.67	3262.86	
G4	3089.89	2761.02	3301.52	3069.83	3515.84	3641.95	3355.84	3491.86	3089.89	
G5	2890.53	2549.44	3151.34	2877.5	3398.51	3584.42	3200.85	3383.78	2890.53	
G6	2674.13	2330.39	2987.85	2671.44	3253.42	3499.7	3041.84	3249.27	2674.13	
G7	2459.9	2118.2	2792.74	2454.76	3072.94	3373.68	2844.09	3067.99	2459.9	
G8	2243.22	1909.3	2593.19	2245.3	2868.96	3221.42	2648.22	2881.84	2243.22	
G9	2027.44	1719.67	2389.34	2038.15	2660.21	3053.31	2441.73	2680.88	2027.44	
G10	1812.17	1538.1	2194.28	1841.48	2453.72	2867.31	2240.25	2477.37	1812.17	
G11	1614.84	1374.75	1993.5	1648.3	2242.99	2664.41	2034.85	2264.32	1614.84	
G12	1435.02	1219.19	1803.68	1470.75	2037.49	2462.22	1843.56	2058.35	1435.02	
G13	1273.94	1084.59	1623.72	1309.76	1837.47	2258.89	1659.73	1858.1	1273.94	
G14	1129.56	967.96	1459.71	1166.9	1649.91	2051.18	1491.33	1672.33	1129.56	
G15	1003.26	867.9	1304.33	1038.9	1472.07	1861.26	1340.77	1494.82	1003.26	
G16	894.0	781.34	1170.63	928.13	1313.58	1681.2	1200.55	1336.29	894.0	
G17	800.6	706.58	1049.38	831.28	1174.35	1510.91	1072.69	1193.33	800.6	
G18	723.91	641.74	947.71	749.25	1050.04	1350.45	961.92	1063.96	723.91	
G19	657.69	590.15	852.47	680.96	941.77	1209.66	866.96	950.97	657.69	
G20	603.37	542.01	772.24	623.42	846.1	1081.9	784.51	856.77	603.37	
G21	558.62	501.7	702.62	573.77	765.96	974.05	713.24	774.17	558.62	
G22	517.61	463.43	643.67	529.93	698.42	879.09	651.13	706.21	517.61	
G23	481.97	428.6	591.47	491.08	641.12	798.67	592.98	645.8	481.97	
G24	448.98	395.27	544.51	454.41	591.09	725.98	543.24	595.06	448.98	
G25	418.73	364.12	501.51	420.67	546.59	664.06	498.02	549.56	418.73	
G26	389.19	333.45	462.86	388.95	506.8	609.17	459.08	511.05	389.19	
G27	360.16	304.89	426.42	357.71	470.98	561.22	420.38	474.42	360.16	
G28	330.24	275.11	392.02	327.36	437.52	518.13	384.8	440.91	330.24	
G29	299.75	246.51	359.88	296.96	405.09	477.92	350.25	407.97	299.75	
G30	268.31	218.57	329.29	268.27	373.19	437.94	316.5	376.82	268.31	
G31	238.72	192.85	297.62	238.96	340.71	401.55	285.73	344.07	238.72	
G32	211.16	168.87	267.51	211.21	307.87	366.58	256.99	313.15	211.16	
G33	184.73	146.83	239.01	185.72	276.2	333.54	229.33	282.1	184.73	
G34	159.38	127.86	212.86	161.89	245.28	300.22	203.14	252.93	159.38	
G35	137.01	111.15	188.83	140.32	217.58	269.68	178.22	224.0	137.01	
G36	116.91	96.66	166.42	120.68	190.16	239.85	156.03	197.05	116.91	

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C Interval: 45.0 Deg

Test Speed: High

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Operators: QC01

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G Range: 0 - 90 Deg

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Humidity: 60

Test Distance: 6.87 m

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	99.87	84.34	145.79	103.97	165.57	212.15	134.94	172.27	99.87	
G38	85.9	73.53	128.14	89.77	142.77	186.57	117.8	150.37	85.9	
G39	73.63	64.75	112.99	77.87	123.66	163.96	102.51	130.74	73.63	
G40	63.24	57.3	99.96	67.63	107.33	143.67	89.49	114.03	63.24	
G41	55.22	50.93	89.01	59.18	93.64	125.83	78.39	99.54	55.22	
G42	48.0	45.31	79.76	52.53	82.59	110.16	68.91	87.5	48.0	
G43	42.71	40.83	71.36	46.16	72.78	96.8	61.21	76.79	42.71	
G44	38.32	36.96	64.19	41.44	64.52	85.71	54.47	68.2	38.32	
G45	34.55	33.6	58.29	37.33	57.96	75.75	48.33	61.31	34.55	
G46	31.1	30.73	53.85	34.12	52.15	67.77	43.33	54.98	31.1	
G47	28.37	28.46	48.61	31.1	47.2	61.03	39.22	49.32	28.37	
G48	26.34	26.24	44.6	28.84	43.37	55.31	35.63	45.03	26.34	
G49	24.45	24.5	41.2	26.52	40.21	50.45	32.38	41.25	24.45	
G50	23.03	22.84	38.42	24.87	37.52	45.73	29.69	38.28	23.03	
G51	21.8	21.76	35.87	23.27	35.35	42.24	27.37	35.49	21.8	
G52	20.81	20.53	33.51	21.99	33.09	38.84	25.3	33.32	20.81	
G53	19.87	19.49	31.72	20.72	31.24	36.2	23.6	31.48	19.87	
G54	19.07	18.64	30.25	19.73	29.5	33.84	21.95	29.69	19.07	
G55	18.17	17.84	28.37	18.74	28.13	31.81	20.67	28.27	18.17	
G56	17.42	16.99	27.04	17.84	26.76	29.97	19.49	27.04	17.42	
G57	16.75	16.19	25.68	17.04	25.72	28.55	18.41	25.72	16.75	
G58	16.09	15.53	24.68	16.28	24.5	27.0	17.56	24.78	16.09	
G59	15.43	15.01	23.46	15.53	23.46	25.96	16.75	23.74	15.43	
G60	14.77	14.25	22.56	14.87	22.51	24.54	15.86	22.8	14.77	
G61	14.16	13.69	21.57	14.06	21.66	23.5	15.06	21.71	14.16	
G62	13.64	13.17	20.67	13.45	20.63	22.28	14.3	20.86	13.64	
G63	13.07	12.84	19.82	12.88	19.92	21.43	13.59	20.15	13.07	
G64	12.6	12.22	19.07	12.32	18.97	20.58	12.98	19.49	12.6	
G65	12.13	11.56	18.31	11.75	18.22	19.82	12.37	18.74	12.13	
G66	11.7	11.04	17.7	11.14	17.46	18.83	11.8	18.08	11.7	
G67	11.19	10.57	16.9	10.57	16.9	17.93	11.19	17.42	11.19	
G68	10.71	10.15	16.24	10.1	16.24	17.18	10.62	16.66	10.71	
G69	10.29	9.53	15.57	9.63	15.57	16.71	10.15	15.91	10.29	
G70	9.68	9.06	14.91	9.25	14.87	15.76	9.58	15.43	9.68	
G71	9.34	8.68	14.21	8.78	14.25	15.24	9.11	14.63	9.34	
G72	8.83	8.12	13.69	8.17	13.55	14.44	8.64	14.11	8.83	
G73	8.4	7.55	12.93	7.6	12.98	13.78	8.17	13.55	8.4	

C Range: 0 - 360 Deg
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Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/5/8 17:32:28

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: 2025/5/8 17:32:28

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