

Report No.:

Test Time: 2025/6/12 14:21:08

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBDL125CT200-48W
Lamp Type:
Luminous Width: 182 mm
Luminous Length: 182 mm
Luminous Height: 115 mm

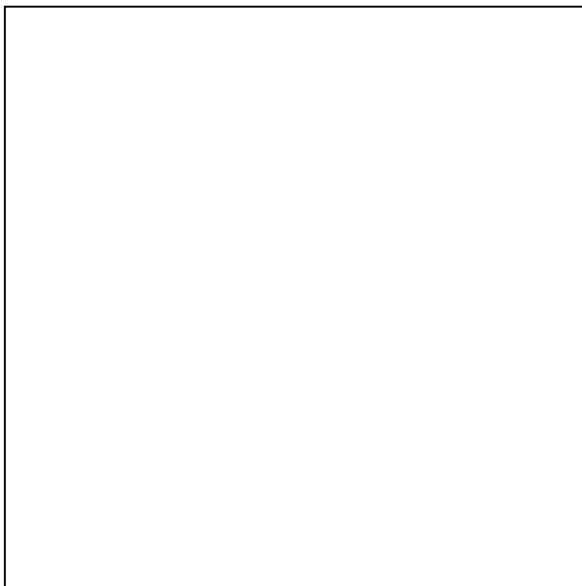
Voltage(V): 219.20 V
Current(A): 0.2220 A
Power(W): 46.91 W
Power Factor: 0.9600
Lamp Luminous Flux: 6188.74

Photometric Results

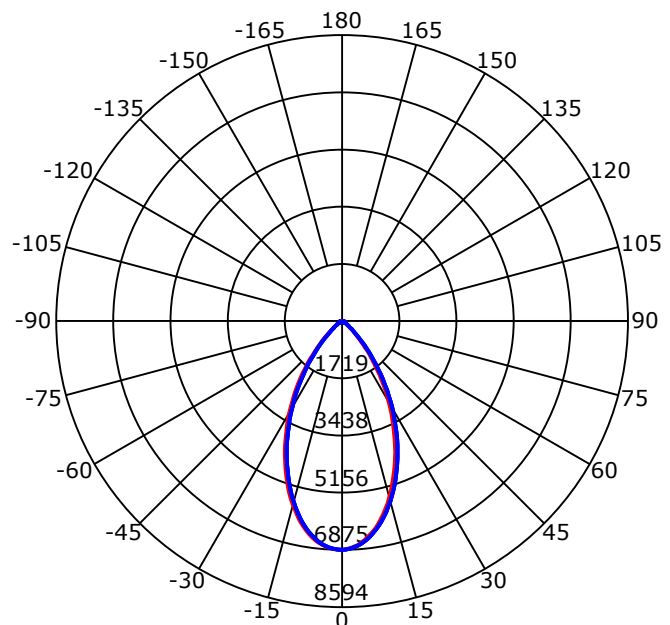
CIE Class: Direct
Luminaire Luminous Flux: 6188.739 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 131.94 lm/W
Beam Angle(50%) C0-180,C90-270: 54.9,55.1
Field Angle(10%) C0-180,C90-270: 91.0,91.1
S/MH C0-180,C90-270: 0.849,0.849

Max. Intensity: 6875.13 cd
Max.Intensity Angle: C=315 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 6871.54 cd
Effective Luminous Flux: 5699.02 lm
ERP(ϕ use)(120deg): 6062.89 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 54.9 deg,55.1 deg

C0-180 — C90-270

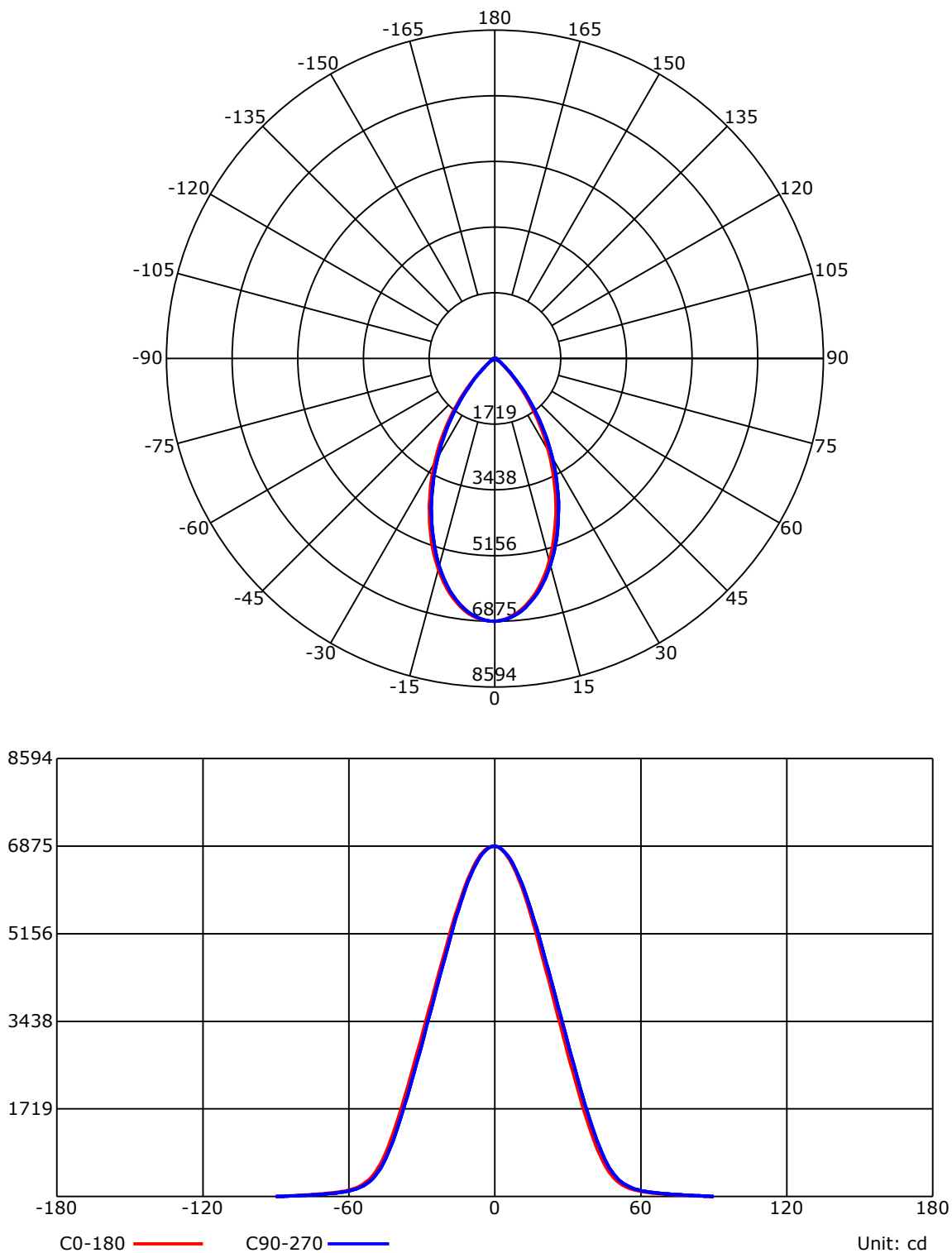
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/6/12 14:21:08

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.:

Test Time: 2025/6/12 14:21:08

Luminous Intensity Distribution Curve



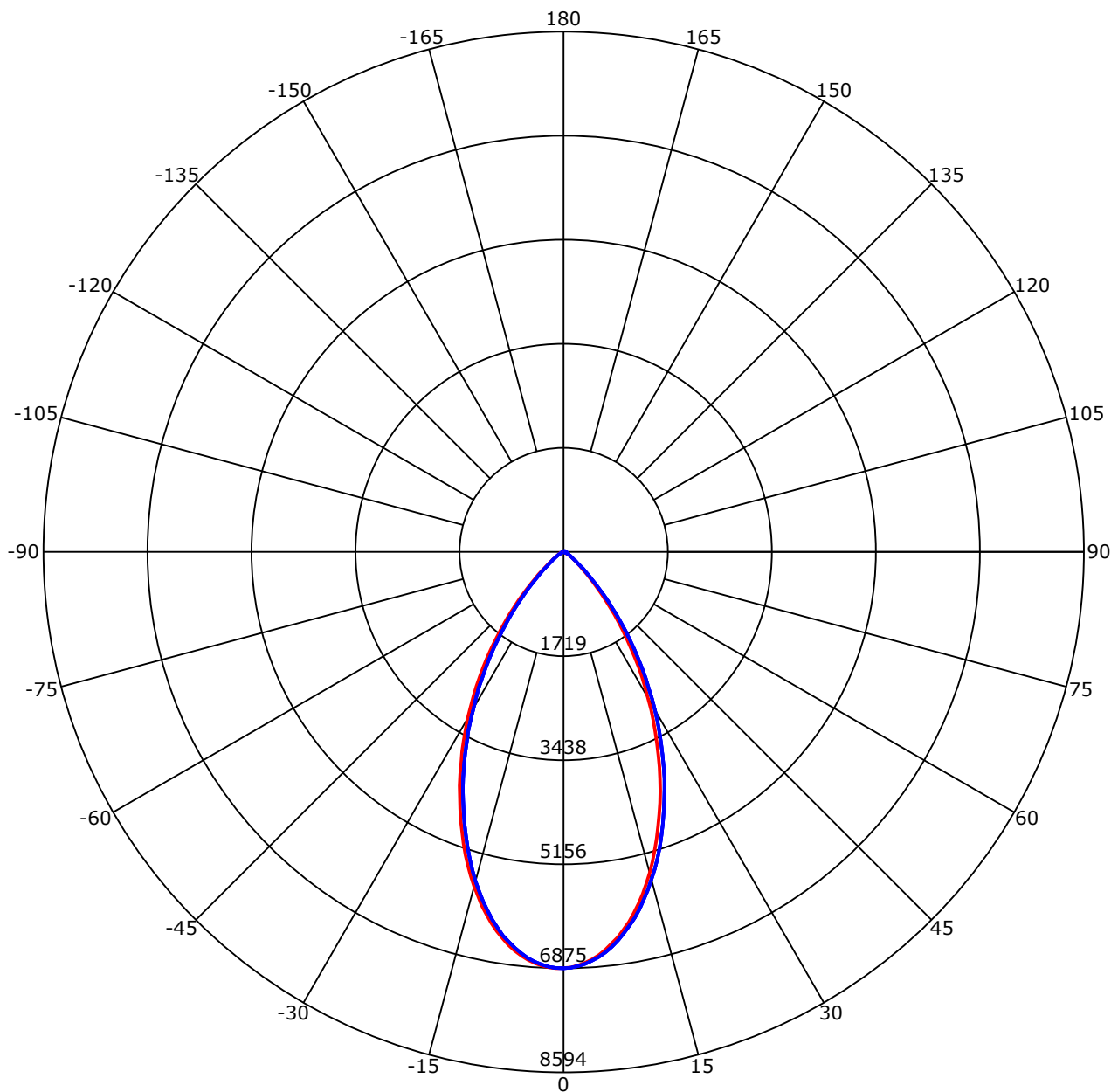
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C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/6/12 14:21:08

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Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
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: 2025/6/12 14:21:08

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

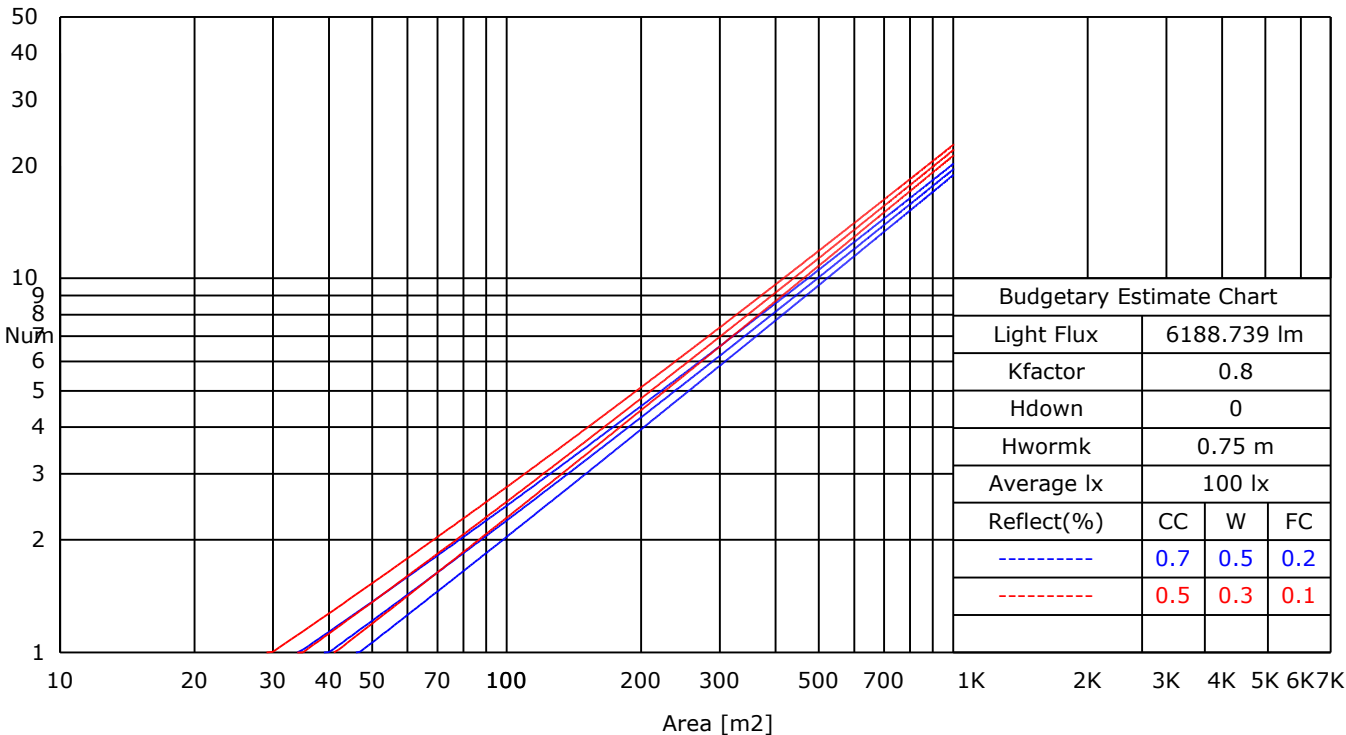
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UTILIZATION FACTORS TABLE

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	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	1.06	1.04	1.03	1.05	1.03	1.01	1.01	0.99	0.97	0.96	0.94	0.92	0.90	0.87	0.85	0.80
2	1.00	0.99	0.97	0.99	0.97	0.96	0.96	0.93	0.91	0.92	0.89	0.87	0.86	0.83	0.81	0.76
3	0.95	0.94	0.92	0.94	0.92	0.90	0.91	0.89	0.86	0.88	0.85	0.82	0.83	0.80	0.77	0.72
4	0.91	0.89	0.88	0.90	0.88	0.86	0.87	0.84	0.82	0.84	0.81	0.78	0.80	0.76	0.73	0.69
5	0.87	0.85	0.84	0.86	0.83	0.82	0.83	0.80	0.78	0.80	0.77	0.74	0.77	0.73	0.70	0.66
6	0.83	0.81	0.80	0.82	0.80	0.78	0.80	0.77	0.75	0.77	0.74	0.71	0.74	0.70	0.67	0.63
7	0.79	0.78	0.77	0.78	0.76	0.75	0.77	0.74	0.71	0.74	0.71	0.68	0.72	0.67	0.64	0.60
8	0.76	0.75	0.74	0.75	0.73	0.72	0.74	0.71	0.69	0.72	0.68	0.65	0.69	0.65	0.61	0.58
9	0.73	0.72	0.71	0.73	0.71	0.69	0.71	0.68	0.66	0.69	0.65	0.63	0.67	0.62	0.59	0.56
10	0.71	0.69	0.68	0.70	0.68	0.67	0.68	0.65	0.64	0.67	0.63	0.60	0.65	0.60	0.57	0.54

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



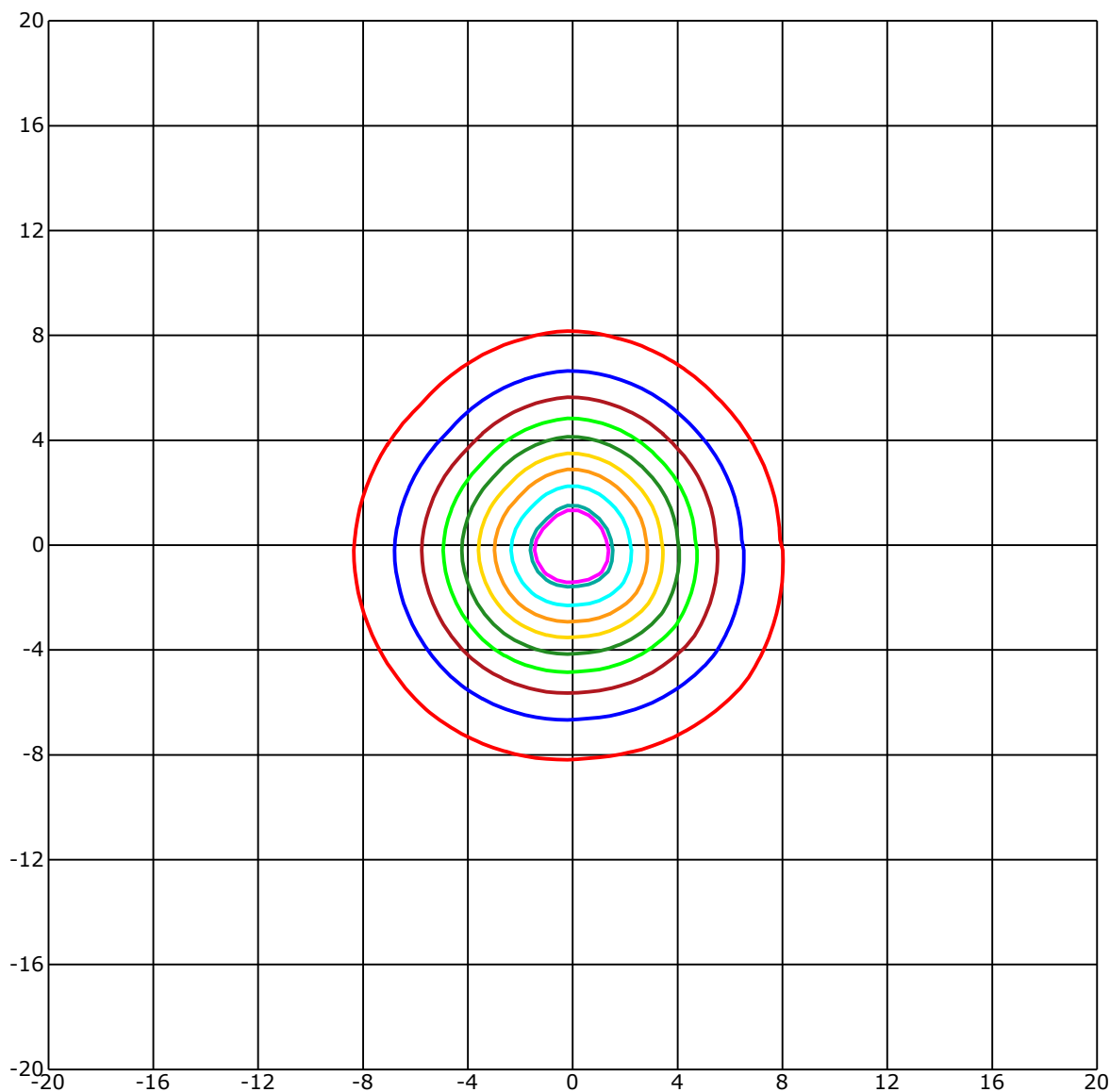
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/6/12 14:21:08

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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ISOLX DIAGRAM



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

63.247(92%Emax)	34.374(50%Emax)
61.872(90%Emax)	27.499(40%Emax)
54.998(80%Emax)	20.624(30%Emax)
48.123(70%Emax)	13.749(20%Emax)
41.248(60%Emax)	6.875(10%Emax)

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/6/12 14:21:08

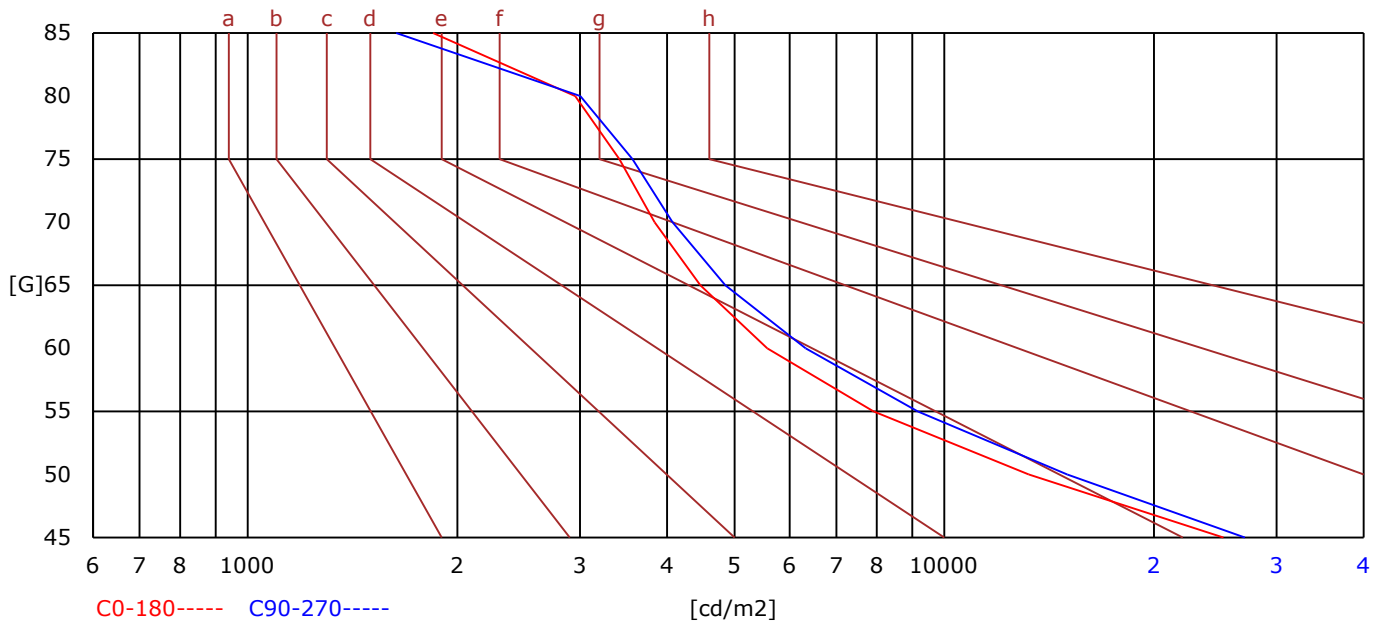
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	25154	13220	7919	5571	4464	3837	3419	2954	1847
C90	27006	15018	9159	6324	4848	4074	3567	3003	1635
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



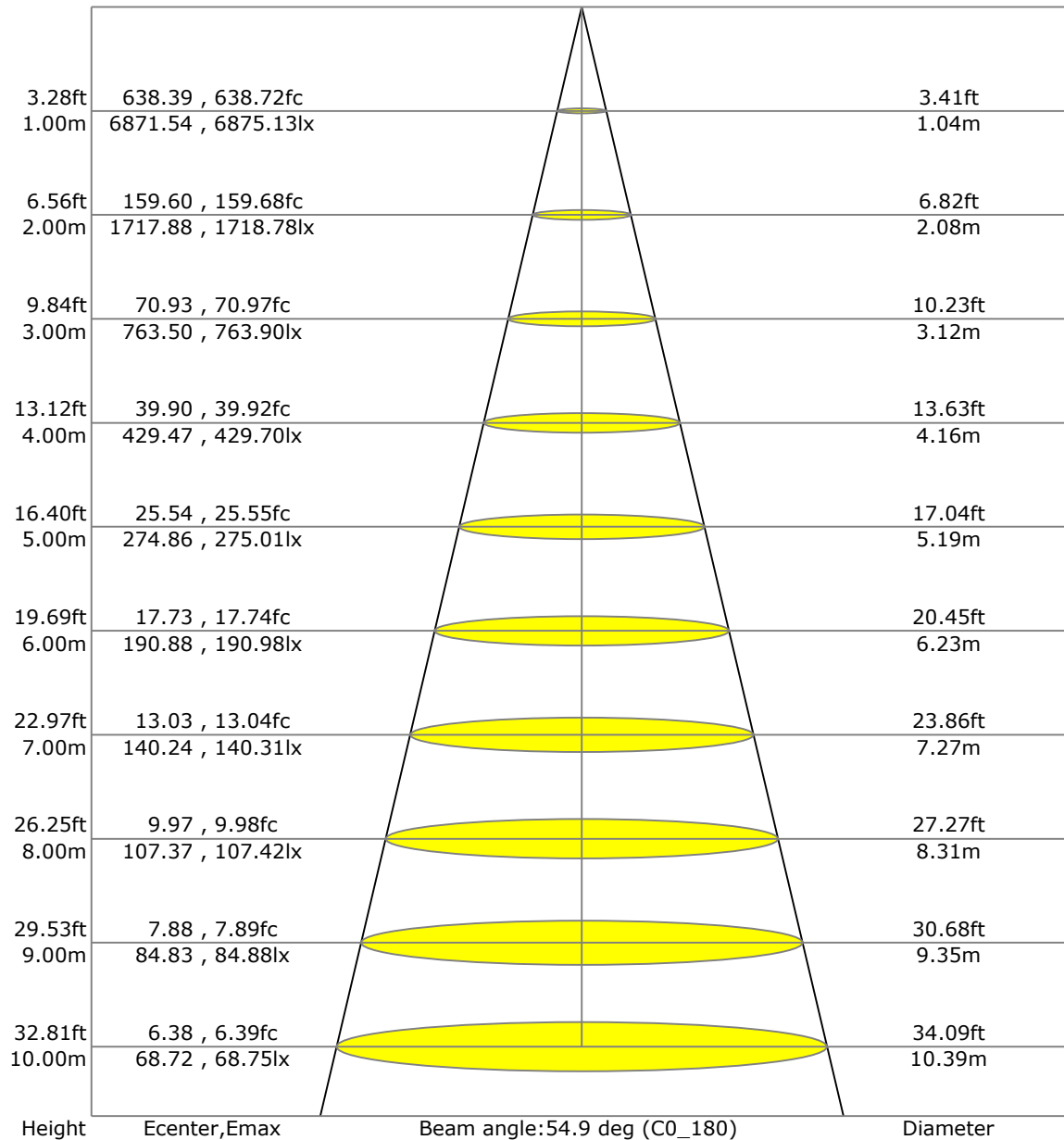
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/6/12 14:21:08

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: 2025/6/12 14:21:08

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.:

Test Time: 2025/6/12 14:21:08

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	10.14	10.19	10.34	10.38	10.62	10.24	10.30	10.44	10.49	10.73
3H	10.12	10.17	10.33	10.37	10.61	10.22	10.28	10.43	10.47	10.72
4H	10.10	10.16	10.31	10.35	10.60	10.21	10.26	10.42	10.46	10.70
6H	10.08	10.14	10.30	10.34	10.59	10.19	10.24	10.40	10.44	10.69
8H	10.07	10.13	10.29	10.33	10.58	10.18	10.23	10.40	10.43	10.69
12H	10.06	10.12	10.29	10.32	10.58	10.17	10.22	10.39	10.43	10.68
4H 2H	10.25	10.30	10.46	10.50	10.75	10.39	10.44	10.60	10.64	10.89
3H	10.24	10.30	10.47	10.50	10.76	10.38	10.44	10.61	10.64	10.90
4H	10.23	10.28	10.46	10.50	10.75	10.37	10.42	10.60	10.63	10.89
6H	10.21	10.26	10.45	10.48	10.74	10.35	10.40	10.59	10.62	10.88
8H	10.20	10.25	10.44	10.47	10.74	10.33	10.38	10.58	10.61	10.87
12H	10.18	10.23	10.43	10.46	10.73	10.32	10.37	10.57	10.60	10.87
8H 4H	10.26	10.32	10.48	10.52	10.77	10.42	10.48	10.64	10.68	10.93
6H	10.24	10.29	10.50	10.52	10.80	10.41	10.45	10.66	10.69	10.96
8H	10.23	10.27	10.49	10.51	10.79	10.39	10.43	10.65	10.68	10.96
12H	10.21	10.25	10.48	10.50	10.78	10.38	10.41	10.64	10.67	10.95
12H 4H	10.26	10.30	10.50	10.53	10.80	10.44	10.48	10.68	10.71	10.98
6H	10.24	10.28	10.50	10.52	10.80	10.42	10.46	10.68	10.71	10.98

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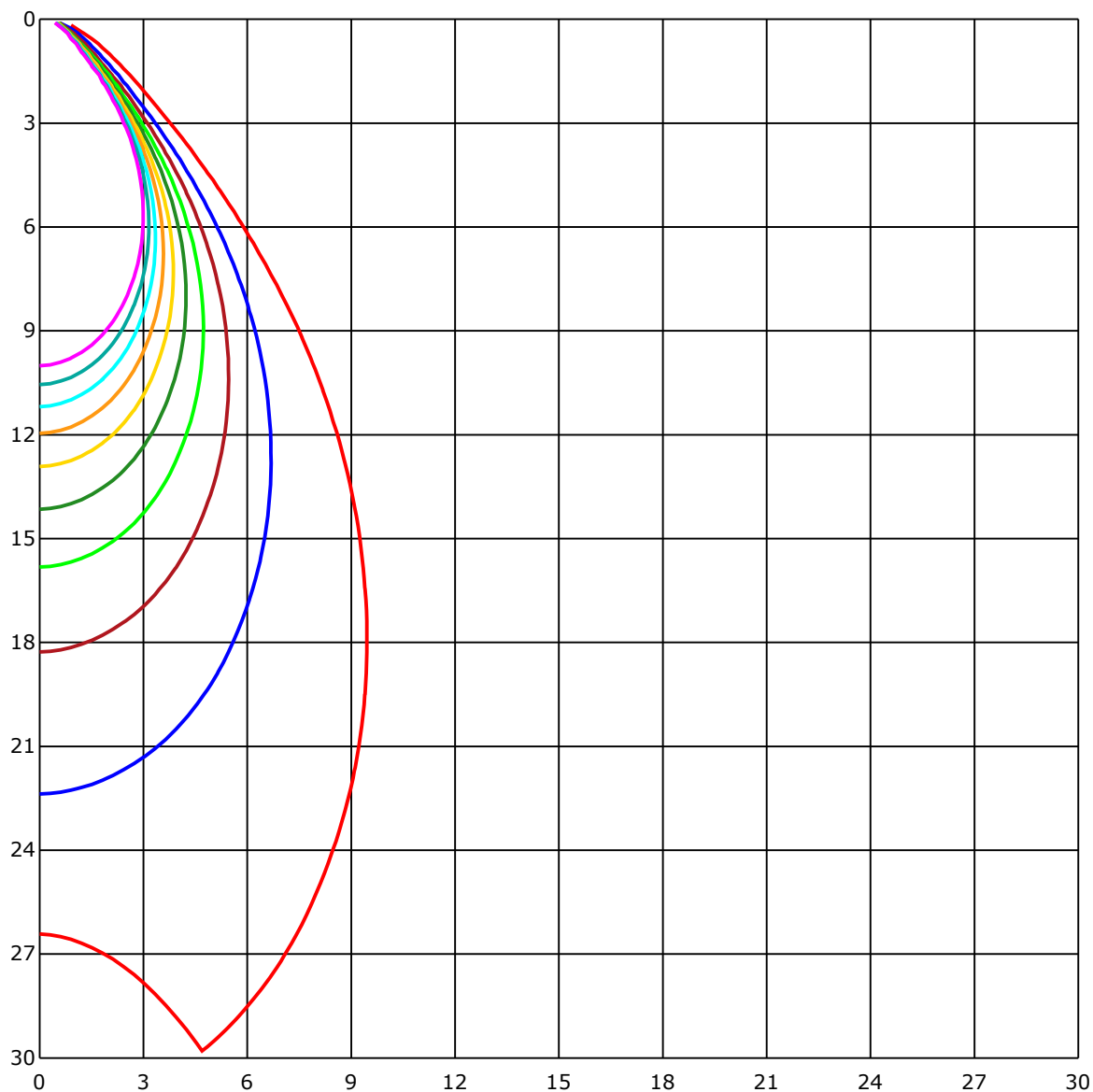
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Humidity: 60
Test Distance: 6.87 m
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SPACE ISOLX DIAGRAM



68.618

61.756

54.895

48.033

41.171

34.309

27.447

20.585

13.724

6.862

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/6/12 14:21:08

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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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	6871.54	6861.67	6874.7	6862.95	6871.54	6861.67	6874.7	6862.95	6871.54	
G1	6860.12	6840.06	6864.46	6841.47	6873.9	6868.61	6869.79	6875.13	6860.12	
G2	6834.44	6809.85	6842.04	6808.81	6863.52	6861.77	6854.88	6869.84	6834.44	
G3	6792.39	6768.98	6809.05	6762.28	6841.14	6844.78	6826.32	6857.38	6792.39	
G4	6743.12	6716.12	6762.8	6704.27	6806.36	6818.11	6782.95	6826.84	6743.12	
G5	6679.12	6650.14	6711.68	6635.41	6760.2	6776.29	6735.71	6789.23	6679.12	
G6	6603.08	6570.71	6642.82	6551.17	6704.98	6722.21	6668.73	6735.85	6603.08	
G7	6514.4	6481.5	6563.3	6463.76	6633.62	6657.26	6591.19	6671.75	6514.4	
G8	6422.46	6379.18	6472.68	6360.3	6553.1	6581.32	6502.88	6593.31	6422.46	
G9	6317.49	6271.24	6372.9	6252.46	6460.03	6495.19	6411.09	6510.95	6317.49	
G10	6202.15	6157.12	6265.44	6136.54	6357.28	6396.97	6300.22	6410.57	6202.15	
G11	6075.28	6029.64	6150.51	6011.04	6244.58	6285.54	6184.3	6302.39	6075.28	
G12	5936.76	5894.7	6025.11	5874.79	6128.09	6171.37	6053.19	6186.05	5936.76	
G13	5792.71	5748.49	5890.31	5731.17	5997.03	6046.63	5916.42	6060.08	5792.71	
G14	5645.32	5593.68	5748.54	5580.0	5858.46	5914.9	5772.98	5925.57	5645.32	
G15	5484.56	5438.64	5602.51	5423.58	5716.02	5773.08	5624.55	5783.6	5484.56	
G16	5320.37	5278.36	5449.17	5260.43	5567.35	5625.97	5466.82	5639.6	5320.37	
G17	5145.26	5108.45	5292.57	5096.98	5415.94	5469.22	5303.56	5479.23	5145.26	
G18	4969.13	4934.29	5128.32	4921.55	5257.36	5309.51	5128.65	5313.43	4969.13	
G19	4787.56	4757.12	4962.71	4748.39	5087.92	5139.88	4955.44	5148.71	4787.56	
G20	4614.68	4578.34	4785.39	4571.21	4913.86	4970.31	4783.59	4975.4	4614.68	
G21	4434.62	4397.71	4610.29	4392.29	4743.43	4794.97	4608.4	4803.28	4434.62	
G22	4254.75	4227.1	4437.92	4228.04	4568.52	4620.01	4428.34	4628.03	4254.75	
G23	4070.45	4042.93	4261.5	4040.29	4396.06	4436.6	4255.32	4449.91	4070.45	
G24	3886.67	3858.87	4089.28	3865.76	4224.64	4264.48	4082.2	4276.89	3886.67	
G25	3702.41	3678.15	3911.25	3680.51	4047.51	4091.69	3895.21	4090.89	3702.41	
G26	3518.15	3498.23	3727.28	3502.62	3865.9	3911.63	3712.56	3916.87	3518.15	
G27	3334.93	3311.15	3546.99	3318.93	3694.1	3732.8	3524.81	3733.75	3334.93	
G28	3149.26	3131.61	3370.66	3137.98	3518.01	3551.61	3356.74	3553.79	3149.26	
G29	2974.87	2956.18	3197.97	2958.96	3342.06	3376.18	3166.39	3373.54	2974.87	
G30	2788.58	2774.14	3016.02	2781.08	3168.09	3198.11	2981.95	3201.46	2788.58	
G31	2613.76	2597.48	2834.6	2604.66	2994.64	3018.29	2810.43	3021.31	2613.76	
G32	2445.22	2420.68	2658.46	2429.51	2817.42	2842.06	2641.04	2846.26	2445.22	
G33	2272.91	2248.74	2486.29	2255.82	2646.57	2671.96	2466.46	2668.37	2272.91	
G34	2105.74	2081.67	2314.11	2094.27	2472.22	2502.47	2301.51	2495.4	2105.74	
G35	1940.74	1914.83	2143.12	1924.97	2305.99	2336.58	2130.99	2324.87	1940.74	
G36	1775.55	1752.66	1981.28	1764.65	2138.16	2165.54	1965.52	2165.16	1775.55	

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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(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	1623.01	1599.36	1815.33	1612.39	1973.02	1999.5	1802.64	1995.53	1623.01	
G38	1473.39	1443.0	1658.26	1462.73	1811.89	1839.41	1647.36	1838.27	1473.39	
G39	1328.88	1297.21	1506.38	1319.15	1658.17	1689.79	1495.62	1683.18	1328.88	
G40	1192.52	1159.16	1367.01	1185.63	1506.29	1531.92	1351.81	1537.58	1192.52	
G41	1060.7	1027.05	1232.03	1056.41	1366.35	1386.46	1212.02	1392.54	1060.7	
G42	935.73	900.89	1099.59	936.53	1225.7	1241.89	1074.82	1256.85	935.73	
G43	821.98	786.68	971.31	825.43	1090.39	1103.75	952.86	1122.34	821.98	
G44	721.5	681.38	857.24	723.62	964.47	971.12	839.4	1002.65	721.5	
G45	629.51	589.16	749.11	632.53	849.97	853.51	734.62	888.29	629.51	
G46	546.26	509.16	654.1	553.9	745.05	741.79	639.33	782.95	546.26	
G47	473.05	438.36	569.29	481.55	650.09	642.73	553.48	685.87	473.05	
G48	409.91	377.01	495.24	419.86	565.61	552.49	480.32	602.8	409.91	
G49	357.0	326.6	429.16	365.78	491.6	475.7	416.7	525.73	357.0	
G50	310.08	281.48	373.19	319.76	426.94	409.29	361.34	460.64	310.08	
G51	270.86	245.57	324.81	280.77	371.82	354.17	313.1	404.19	270.86	
G52	237.31	215.36	285.92	247.69	324.95	305.84	274.21	355.86	237.31	
G53	209.13	190.2	251.37	219.65	285.64	265.86	239.81	312.63	209.13	
G54	184.3	168.54	222.49	194.88	250.8	232.44	211.21	276.95	184.3	
G55	164.43	150.46	197.28	174.02	221.07	205.26	186.9	245.71	164.43	
G56	147.77	134.84	176.37	155.94	195.96	181.38	167.17	219.14	147.77	
G57	133.1	121.67	158.25	139.94	175.19	162.45	149.43	196.2	133.1	
G58	120.26	110.68	143.1	126.87	157.21	145.93	134.7	176.52	120.26	
G59	109.36	100.81	129.79	114.88	142.39	132.25	121.86	158.53	109.36	
G60	99.44	92.27	118.13	104.73	129.18	120.16	109.83	143.48	99.44	
G61	91.0	85.1	107.8	95.24	117.47	110.2	100.01	130.45	91.0	
G62	83.68	78.25	99.07	87.03	107.33	101.1	91.51	119.13	83.68	
G63	77.03	72.54	91.28	79.76	98.5	93.4	83.87	108.84	77.03	
G64	71.31	67.07	84.86	73.49	90.81	86.46	77.17	99.77	71.31	
G65	66.08	62.49	78.72	67.87	84.39	80.38	70.94	91.51	66.08	
G66	60.98	58.15	72.92	62.82	78.16	74.81	65.37	84.29	60.98	
G67	56.64	54.18	67.73	58.0	72.59	69.85	60.32	77.87	56.64	
G68	52.58	50.26	63.2	53.76	67.59	64.99	56.26	72.26	52.58	
G69	48.61	46.63	59.14	49.93	62.96	61.07	52.15	66.88	48.61	
G70	45.21	43.47	55.31	46.16	58.76	57.01	48.09	62.21	45.21	
G71	42.1	40.4	51.54	42.76	54.84	53.19	44.51	57.63	42.1	
G72	39.08	37.47	47.81	39.6	51.35	49.84	41.11	53.66	39.08	
G73	36.11	34.64	44.6	36.48	47.53	45.92	37.95	50.08	36.11	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/6/12 14:21:08

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.87 m

Remarks:

Test Time: 2025/6/12 14:21:08

Remarks: