

Report No.:

Test Time: 2025/5/13 18:20:27

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP104CT120H140-38°-40W
Lamp Type:
Luminous Width: 108 mm
Luminous Length: 108 mm
Luminous Height: 105 mm

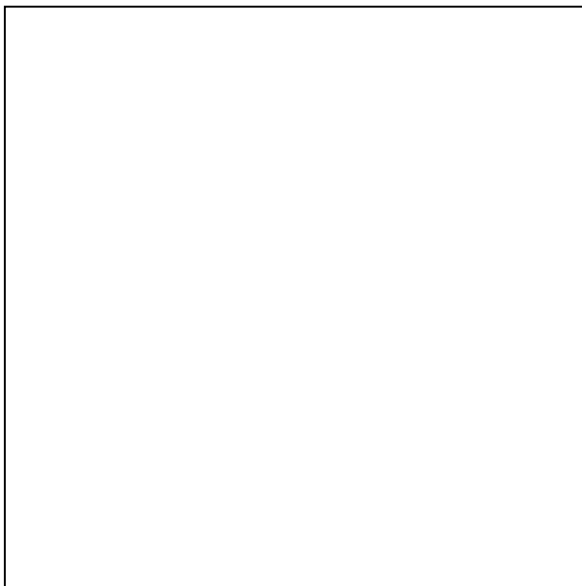
Voltage(V): 219.80 V
Current(A): 0.1850 A
Power(W): 39.64 W
Power Factor: 0.9730
Lamp Luminous Flux: 3806.55

Photometric Results

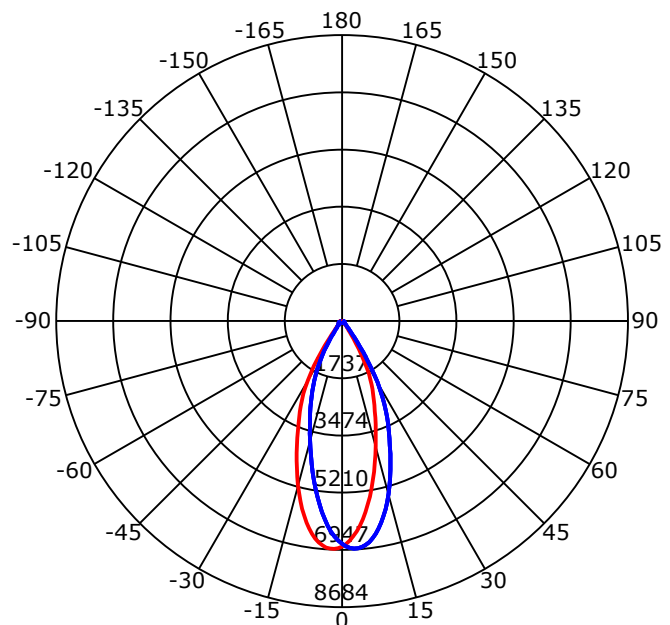
CIE Class: Direct
Luminaire Luminous Flux: 3806.546 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 96.04 lm/W
Beam Angle(50%) C0-180,C90-270: 39.8,40.3
Field Angle(10%) C0-180,C90-270: 69.0,69.7
S/MH C0-180,C90-270: 0.650,0.650

Max. Intensity: 6947.24 cd
Max.Intensity Angle: C=135 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 6847.80 cd
Effective Luminous Flux: 3323.54 lm
ERP(ϕ use)(120deg): 3694.79 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 39.8 deg,40.3 deg

C0-180 — C90-270 —

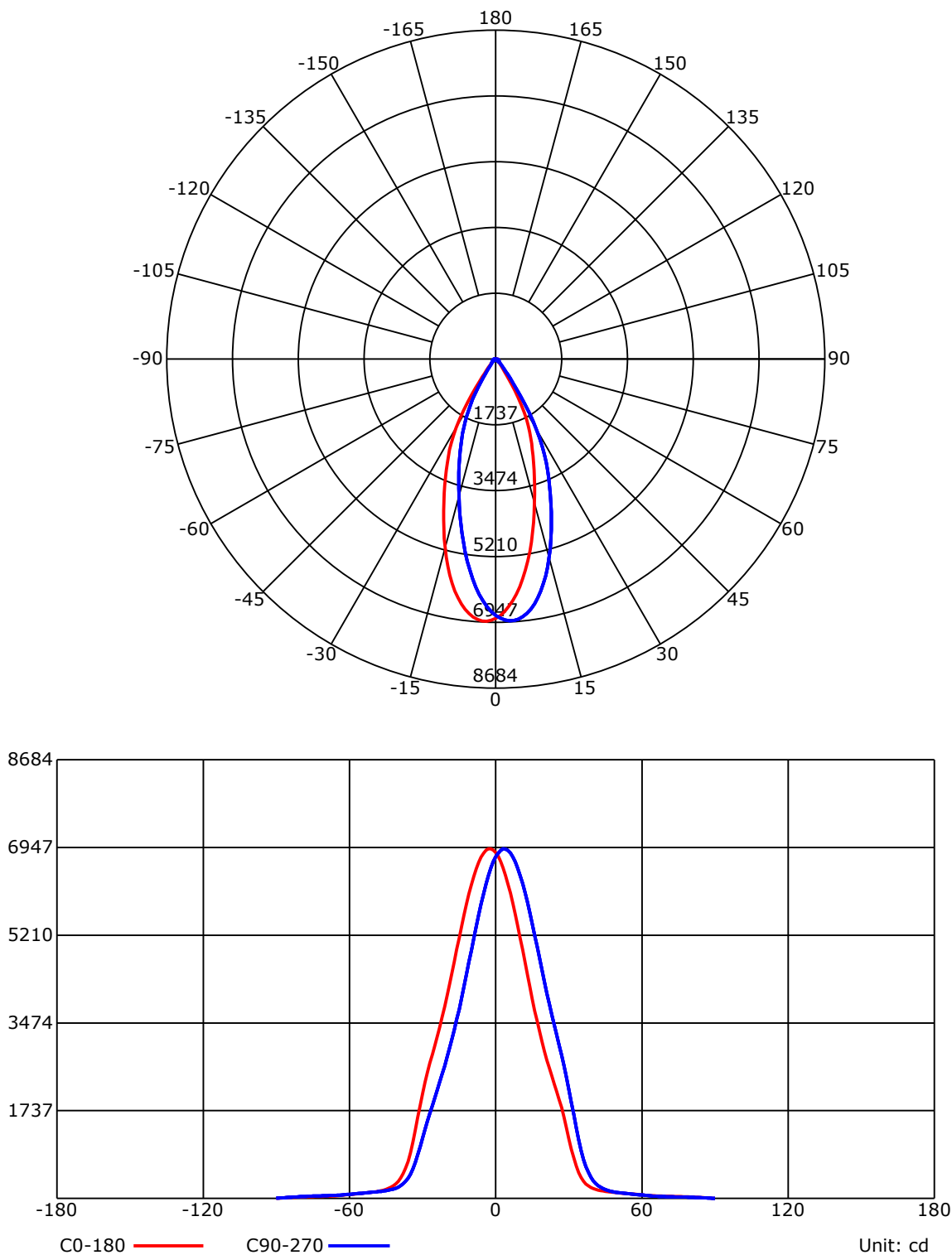
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/5/13 18:20:27

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: 2025/5/13 18:20:27

Luminous Intensity Distribution Curve



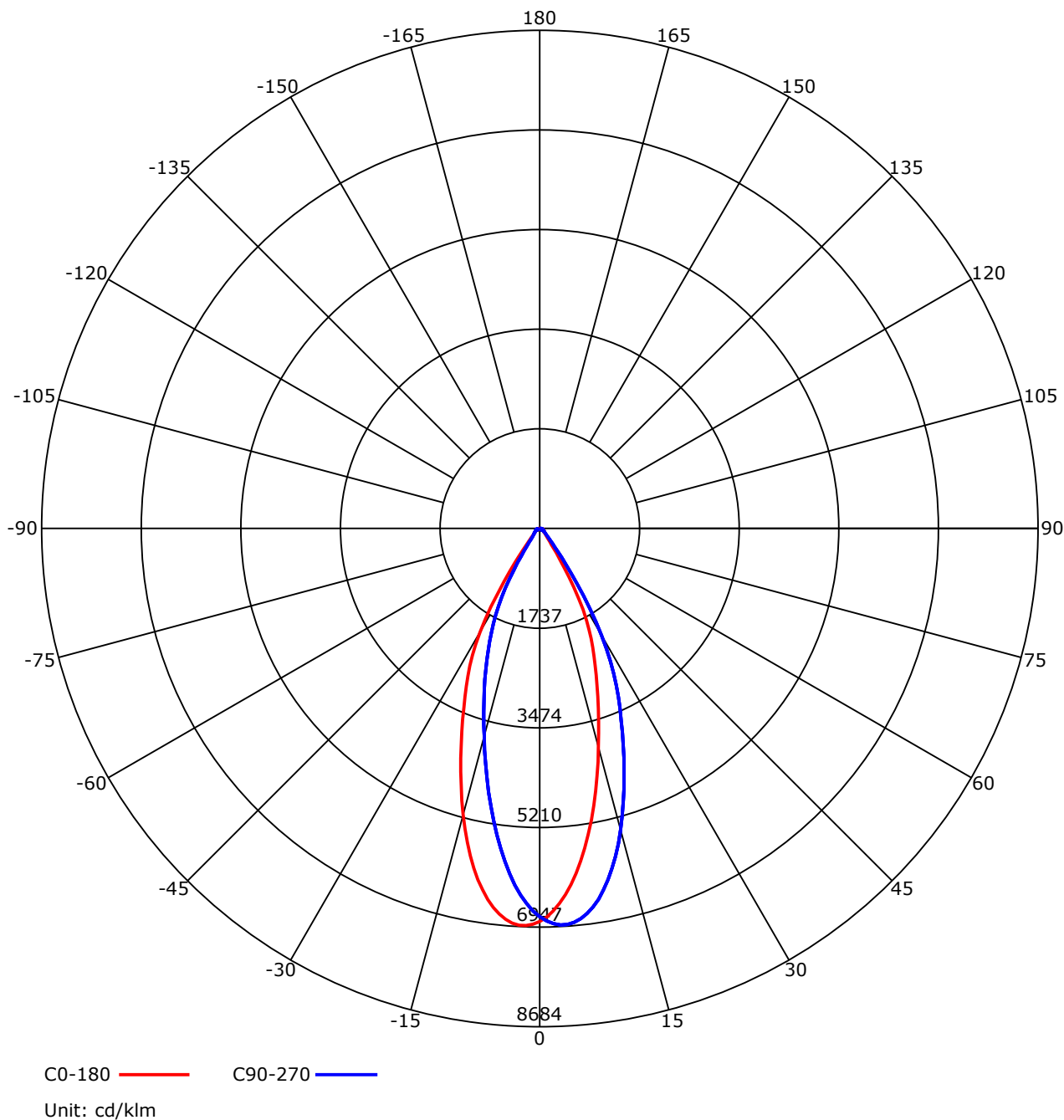
C Range: 0 - 360 Deg
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Luminous Intensity Distribution Curve



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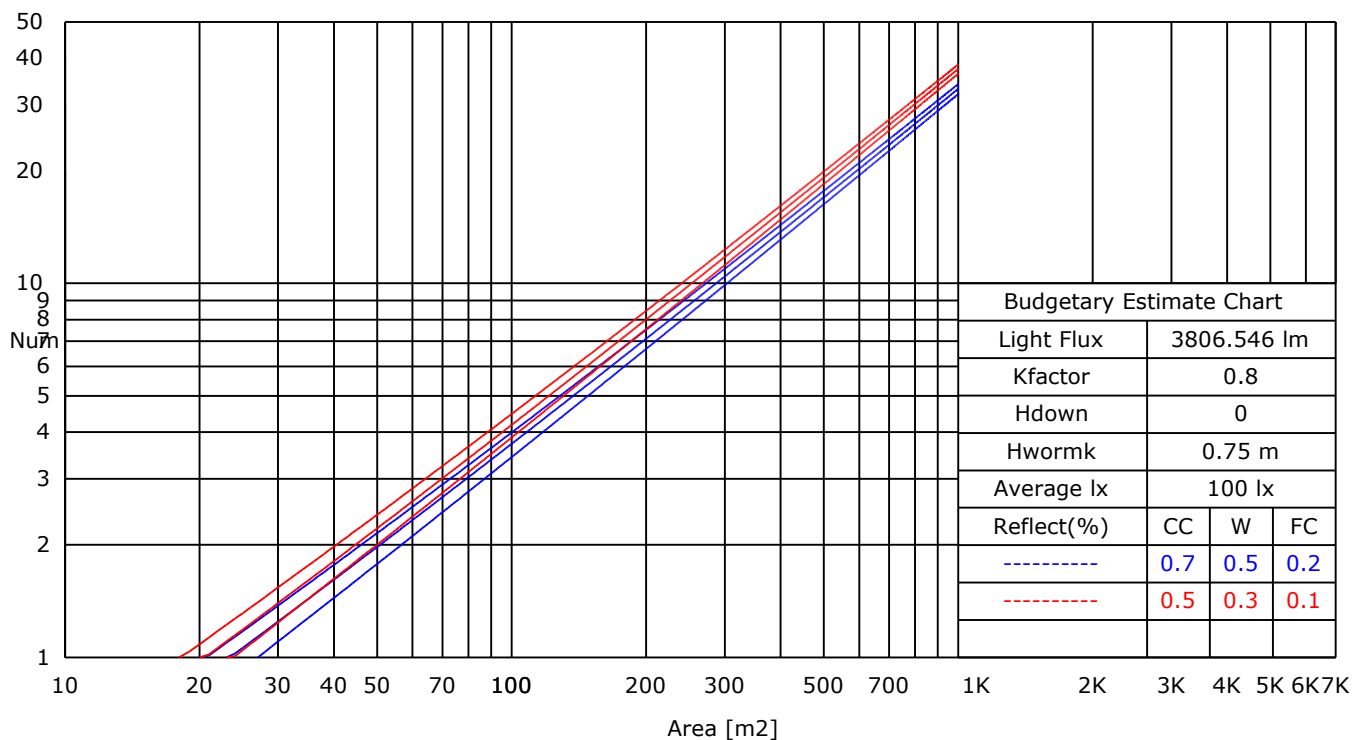
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UTILIZATION FACTORS TABLE

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	1.02	0.99	0.98	1.00	0.98	0.96	0.97	0.94	0.92	0.92	0.90	0.87	0.86	0.84	0.81	0.76
2	0.97	0.95	0.93	0.96	0.93	0.91	0.93	0.90	0.88	0.89	0.86	0.83	0.84	0.80	0.77	0.73
3	0.93	0.91	0.89	0.92	0.89	0.88	0.89	0.86	0.84	0.86	0.82	0.79	0.81	0.78	0.74	0.70
4	0.89	0.87	0.86	0.88	0.86	0.84	0.86	0.83	0.80	0.83	0.79	0.76	0.79	0.75	0.72	0.68
5	0.86	0.84	0.83	0.85	0.83	0.81	0.83	0.80	0.78	0.80	0.76	0.74	0.77	0.73	0.69	0.65
6	0.83	0.82	0.81	0.82	0.80	0.79	0.80	0.77	0.75	0.78	0.74	0.71	0.75	0.70	0.67	0.63
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	0.76	0.73	0.71	0.73	0.70	0.67	0.71	0.66	0.63	0.60
9	0.76	0.75	0.74	0.75	0.73	0.72	0.73	0.71	0.69	0.71	0.68	0.65	0.69	0.65	0.61	0.58
10	0.74	0.73	0.72	0.73	0.72	0.70	0.72	0.69	0.67	0.69	0.66	0.63	0.67	0.63	0.60	0.57

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



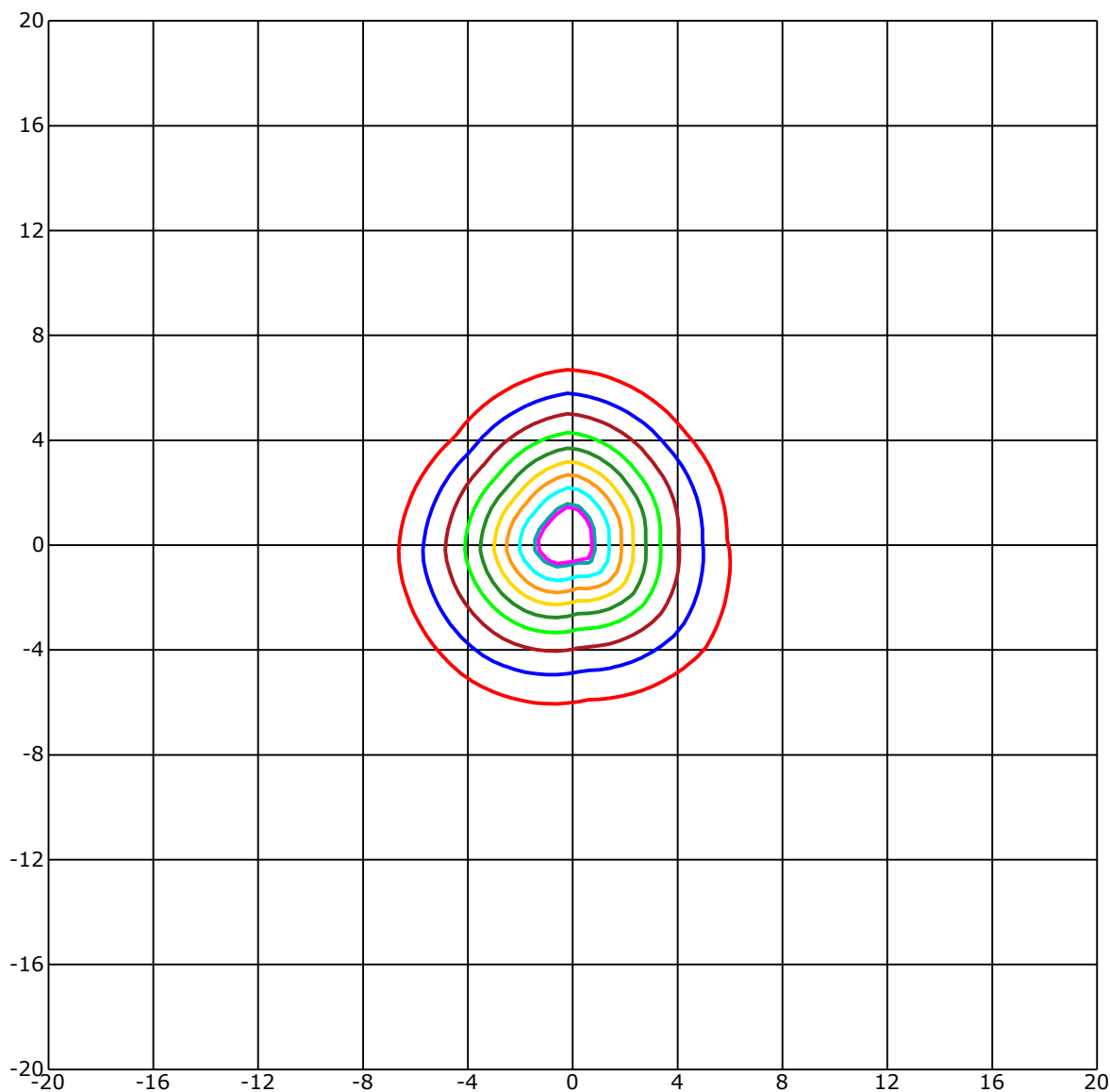
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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ISOLX DIAGRAM



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

63.885(92%Emax)	34.72(50%Emax)
62.497(90%Emax)	27.776(40%Emax)
55.553(80%Emax)	20.832(30%Emax)
48.608(70%Emax)	13.888(20%Emax)
41.664(60%Emax)	6.944(10%Emax)

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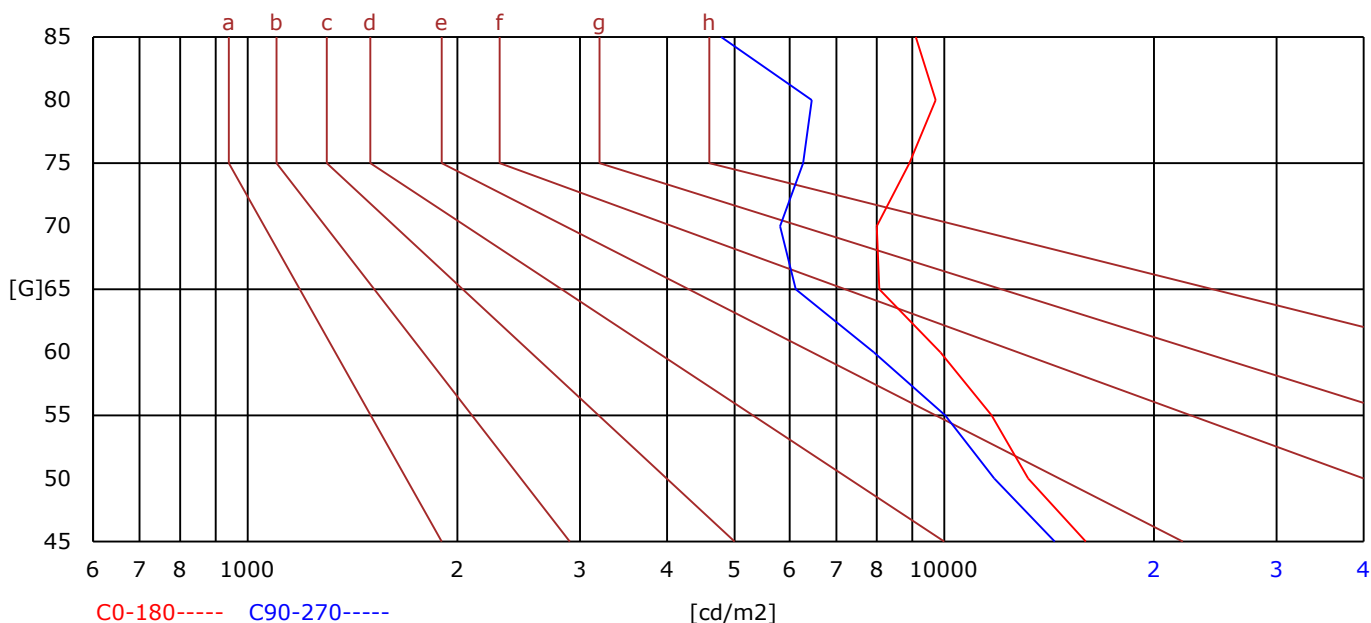
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Test Distance: 6.87 m
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	15960	13194	11690	9873	8071	7998	8911	9717	9100
C90	14403	11791	10032	7923	6118	5809	6269	6455	4782
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



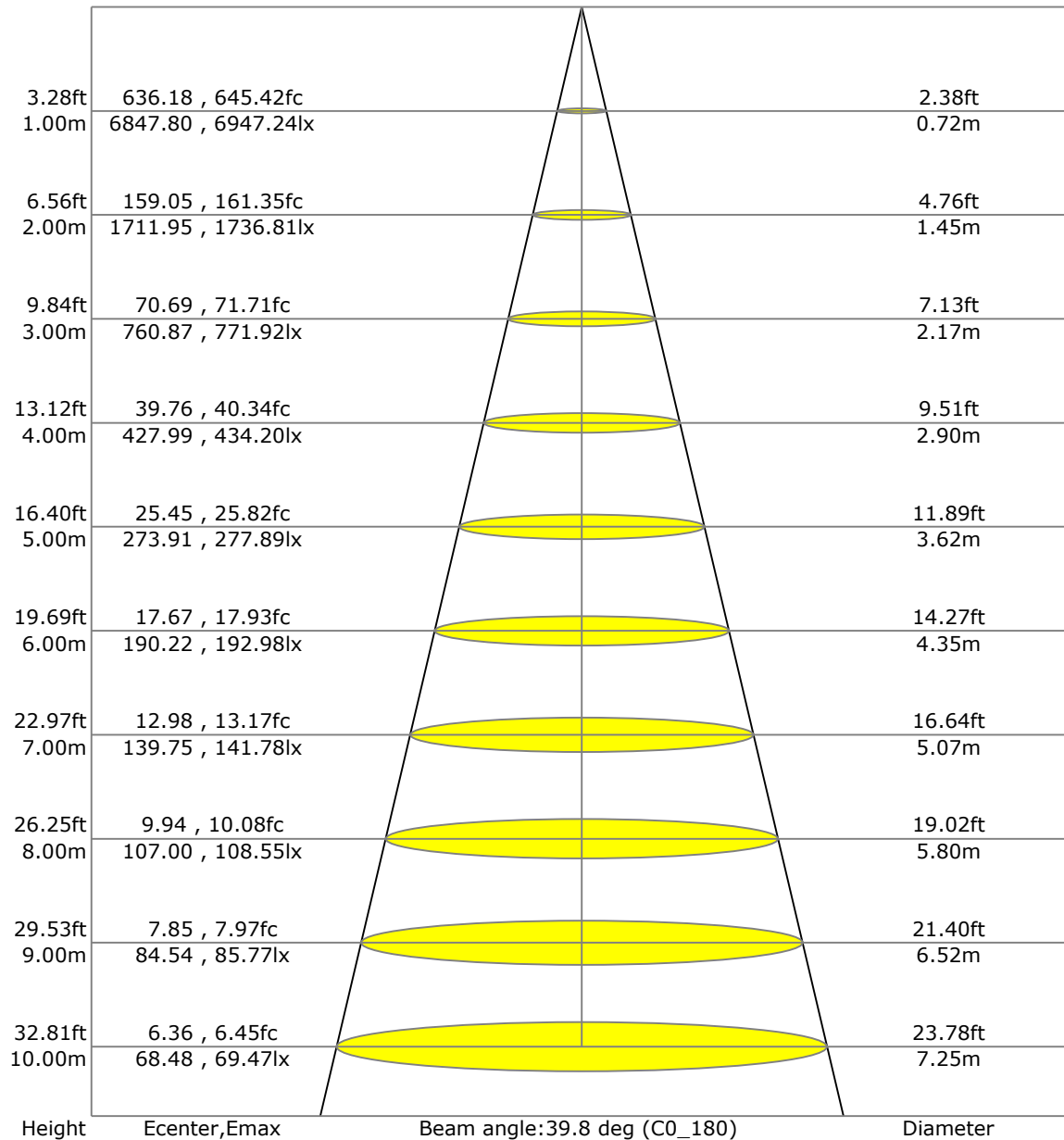
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C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/5/13 18:20:27

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 18:20:27

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	8.64	8.69	8.84	8.88	9.12	8.66	8.71	8.86	8.90	9.14
3H	8.67	8.72	8.88	8.92	9.16	8.69	8.75	8.90	8.94	9.19
4H	8.67	8.72	8.88	8.92	9.17	8.70	8.75	8.91	8.95	9.20
6H	8.66	8.71	8.88	8.91	9.17	8.69	8.74	8.91	8.94	9.20
8H	8.65	8.70	8.87	8.91	9.16	8.68	8.73	8.90	8.94	9.19
12H	8.64	8.69	8.86	8.90	9.16	8.67	8.72	8.89	8.93	9.19
4H 2H	9.70	9.75	9.91	9.95	10.20	9.48	9.53	9.69	9.73	9.98
3H	9.86	9.92	10.09	10.12	10.38	9.65	9.71	9.87	9.91	10.17
4H	9.91	9.96	10.14	10.17	10.43	9.71	9.76	9.94	9.97	10.23
6H	9.92	9.98	10.16	10.20	10.46	9.73	9.78	9.97	10.01	10.27
8H	9.92	9.97	10.16	10.20	10.46	9.73	9.78	9.98	10.01	10.28
12H	9.91	9.96	10.16	10.19	10.46	9.72	9.77	9.97	10.00	10.27
8H 4H	10.29	10.35	10.51	10.55	10.80	9.92	9.98	10.14	10.18	10.43
6H	10.81	10.86	11.07	11.10	11.37	10.46	10.50	10.71	10.74	11.01
8H	10.83	10.87	11.09	11.12	11.40	10.48	10.52	10.74	10.77	11.04
12H	10.83	10.87	11.10	11.12	11.41	10.48	10.52	10.75	10.78	11.06
12H 4H	10.97	11.02	11.22	11.25	11.52	10.58	10.63	10.83	10.86	11.13
6H	11.08	11.13	11.35	11.37	11.65	10.71	10.76	10.97	11.00	11.28

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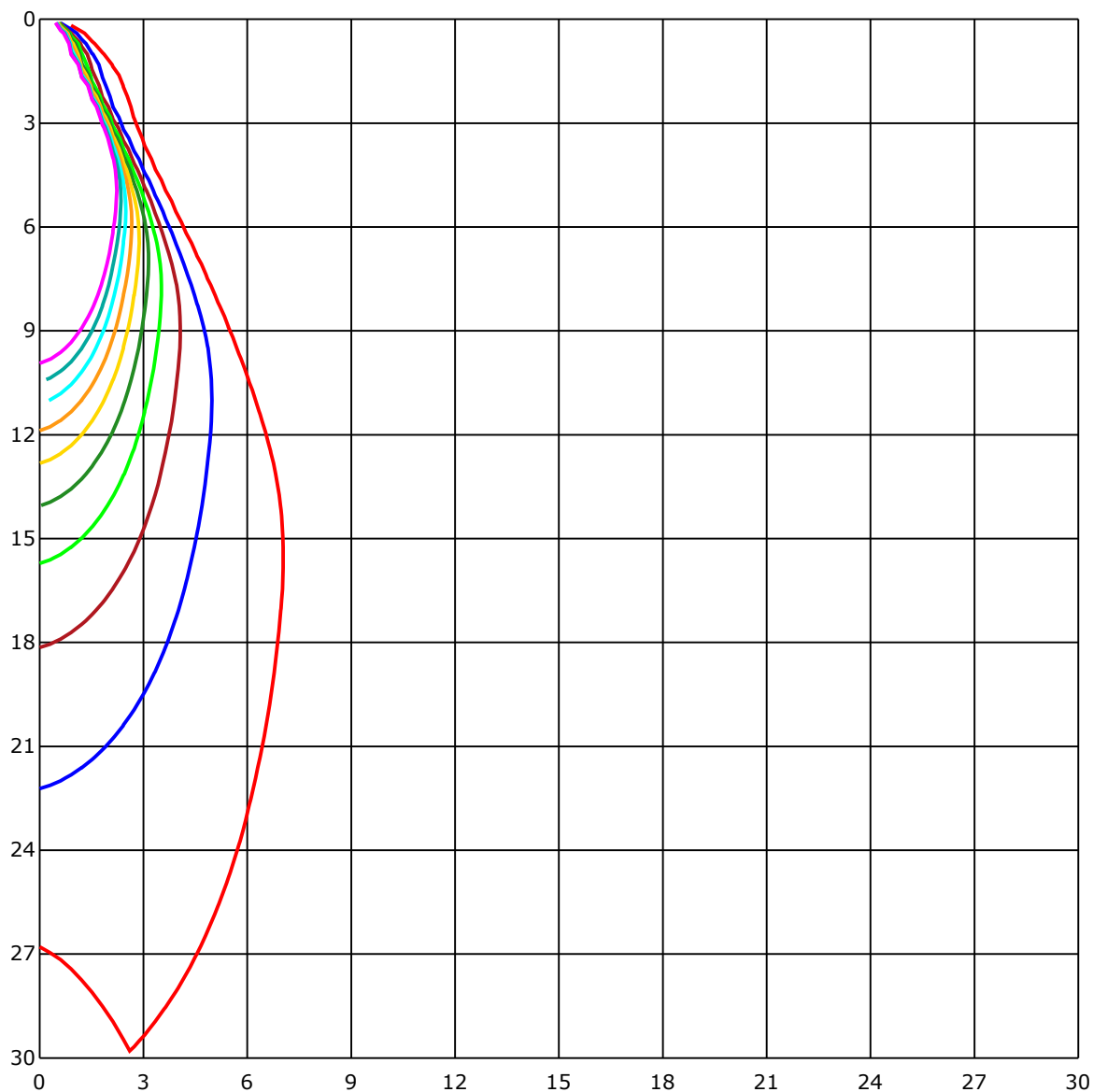
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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

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SPACE ISOLX DIAGRAM



Unit of illumination:lx



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
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:

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	6847.8	6845.39	6765.91	6923.13	6847.8	6845.39	6765.91	6923.13	6847.8	
G1	6774.6	6834.3	6838.97	6947.24	6895.51	6835.62	6670.72	6873.71	6774.6	
G2	6670.06	6794.94	6890.65	6943.99	6922.32	6797.82	6545.74	6802.58	6670.06	
G3	6541.4	6728.72	6919.02	6915.57	6922.32	6729.33	6398.86	6707.62	6541.4	
G4	6396.12	6641.41	6917.89	6858.13	6892.78	6638.57	6228.53	6582.98	6396.12	
G5	6229.05	6527.33	6890.56	6774.97	6836.8	6523.51	6039.65	6439.31	6229.05	
G6	6042.43	6390.41	6835.62	6668.26	6756.38	6387.96	5829.01	6272.37	6042.43	
G7	5838.68	6231.64	6760.63	6543.8	6654.86	6231.6	5613.69	6083.35	5838.68	
G8	5625.12	6055.17	6662.6	6388.29	6529.46	6058.52	5388.71	5882.34	5625.12	
G9	5398.29	5865.68	6540.31	6219.37	6378.85	5869.41	5154.85	5675.19	5398.29	
G10	5163.1	5659.9	6395.32	6028.51	6215.31	5666.6	4916.74	5453.56	5163.1	
G11	4918.86	5445.01	6235.89	5827.17	6029.83	5447.28	4679.15	5220.4	4918.86	
G12	4675.84	5215.12	6054.04	5603.92	5830.75	5222.81	4440.28	4977.24	4675.84	
G13	4427.73	4974.88	5867.24	5369.07	5618.23	4998.39	4205.06	4738.9	4427.73	
G14	4190.9	4736.92	5656.83	5122.42	5395.93	4772.55	3978.13	4503.43	4190.9	
G15	3944.86	4498.34	5437.13	4879.45	5164.0	4543.17	3747.43	4271.7	3944.86	
G16	3712.79	4261.46	5208.98	4635.54	4929.48	4321.54	3545.29	4044.82	3712.79	
G17	3501.21	4040.01	4979.51	4390.4	4686.42	4097.07	3337.77	3824.84	3501.21	
G18	3297.84	3801.1	4748.43	4151.35	4457.75	3877.98	3150.77	3608.44	3297.84	
G19	3097.82	3589.42	4515.71	3915.83	4233.89	3668.76	2972.46	3400.21	3097.82	
G20	2911.58	3377.74	4285.48	3699.67	4010.18	3467.18	2800.38	3208.54	2911.58	
G21	2737.47	3186.88	4058.23	3481.86	3794.82	3281.08	2622.59	3024.43	2737.47	
G22	2575.35	2999.84	3840.65	3282.17	3589.56	3106.69	2459.34	2853.19	2575.35	
G23	2423.99	2822.19	3630.06	3084.41	3389.63	2937.68	2303.96	2683.24	2423.99	
G24	2266.68	2647.46	3433.43	2890.48	3207.22	2764.7	2151.19	2523.19	2266.68	
G25	2116.22	2478.36	3240.54	2676.4	3028.25	2607.25	1996.48	2364.47	2116.22	
G26	1958.95	2285.42	3042.41	2459.86	2856.97	2447.21	1844.41	2212.69	1958.95	
G27	1796.88	2079.07	2832.57	2232.32	2683.1	2296.84	1686.63	2062.6	1796.88	
G28	1600.92	1861.78	2619.24	1991.38	2499.41	2138.78	1534.18	1913.74	1600.92	
G29	1390.66	1632.87	2393.21	1727.22	2307.65	1978.07	1370.46	1760.59	1390.66	
G30	1178.32	1396.7	2155.62	1463.2	2087.43	1787.91	1204.09	1608.14	1178.32	
G31	980.28	1171.52	1909.68	1208.34	1854.74	1584.35	1029.13	1446.35	980.28	
G32	799.04	965.32	1654.06	984.1	1603.18	1371.97	861.82	1281.68	799.04	
G33	641.55	787.91	1398.16	788.99	1353.09	1167.75	712.2	1099.69	641.55	
G34	511.94	636.64	1159.35	632.53	1114.04	977.26	583.92	921.0	511.94	
G35	414.11	516.71	951.25	509.92	905.8	805.51	480.65	755.48	414.11	
G36	340.57	420.85	774.36	413.68	732.78	655.8	399.95	617.34	340.57	

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: 6.87 m

Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	287.29	346.61	630.41	338.17	596.95	540.03	337.17	504.3	287.29	
G38	246.79	288.61	514.68	281.01	487.07	447.85	288.8	418.64	246.79	
G39	217.2	245.19	422.37	238.72	403.39	377.1	251.56	352.09	217.2	
G40	195.11	212.48	350.53	206.2	338.07	320.47	222.86	302.86	195.11	
G41	178.31	187.94	295.03	179.25	289.08	278.41	202.0	266.19	178.31	
G42	165.33	169.11	252.46	158.58	251.7	245.8	186.95	239.29	165.33	
G43	155.09	154.15	220.55	142.25	221.92	221.92	173.97	218.57	155.09	
G44	145.93	141.54	195.25	129.46	198.75	201.86	164.15	203.37	145.93	
G45	138.43	131.63	174.16	118.79	179.91	186.99	155.28	190.3	138.43	
G46	131.68	122.85	157.35	110.77	164.53	173.87	147.3	179.63	131.68	
G47	126.11	115.59	143.67	103.93	152.4	162.69	140.32	170.43	126.11	
G48	120.87	109.17	133.0	98.31	141.97	153.15	135.36	163.02	120.87	
G49	116.53	103.74	123.99	92.88	133.66	145.51	129.46	155.75	116.53	
G50	112.0	98.92	116.91	88.4	126.68	138.43	124.88	149.94	112.0	
G51	107.94	94.39	110.35	83.82	120.45	132.43	120.59	144.09	107.94	
G52	103.31	90.15	104.97	79.72	114.69	126.87	116.34	139.28	103.31	
G53	99.35	86.28	99.21	75.23	109.78	122.15	111.81	134.18	99.35	
G54	95.29	82.08	94.35	71.17	104.45	116.86	107.75	129.51	95.29	
G55	91.33	78.21	89.63	67.11	99.82	112.61	103.55	124.93	91.33	
G56	87.22	74.0	85.05	63.06	95.01	107.56	99.96	120.54	87.22	
G57	82.92	69.95	80.47	58.85	90.29	102.94	95.48	116.15	82.92	
G58	78.87	65.89	75.99	54.94	85.76	98.41	91.14	111.72	78.87	
G59	74.62	61.88	71.31	50.69	81.13	93.73	86.84	107.0	74.62	
G60	69.99	57.58	67.3	46.21	76.6	89.06	82.69	102.42	69.99	
G61	65.37	53.19	62.63	41.25	72.31	84.62	77.69	97.74	65.37	
G62	60.46	47.72	57.96	36.53	67.68	79.86	73.01	93.21	60.46	
G63	56.64	44.03	52.44	33.93	62.63	75.18	67.73	88.31	56.64	
G64	54.13	41.67	47.62	32.14	57.06	69.52	64.75	82.69	54.13	
G65	52.15	39.79	44.6	30.16	53.29	65.46	62.39	77.87	52.15	
G66	50.26	37.85	42.19	28.41	50.36	62.54	60.46	74.48	50.26	
G67	48.24	36.11	39.98	26.86	47.62	60.32	58.43	71.88	48.24	
G68	46.35	34.5	38.04	25.53	45.31	57.77	56.73	69.62	46.35	
G69	44.88	33.18	36.06	24.21	43.56	55.79	55.27	67.35	44.88	
G70	43.61	31.91	34.31	23.17	41.34	53.85	53.71	65.51	43.61	
G71	42.71	31.1	32.9	22.42	39.74	52.2	52.44	63.81	42.71	
G72	41.58	30.06	31.76	21.9	38.28	50.45	51.16	61.97	41.58	
G73	40.21	29.21	30.77	20.96	37.24	48.9	49.84	60.55	40.21	

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
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Temperature: 25
Operators: QC01
Test Date: 2025/5/13 18:20:27

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 18:20:27

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