

Report No.:

Test Time: 2025/7/16 16:00:35

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP104SCT095H124-3F-60°
Lamp Type:
Luminous Width: 90 mm
Luminous Length: 280 mm
Luminous Height: 70 mm

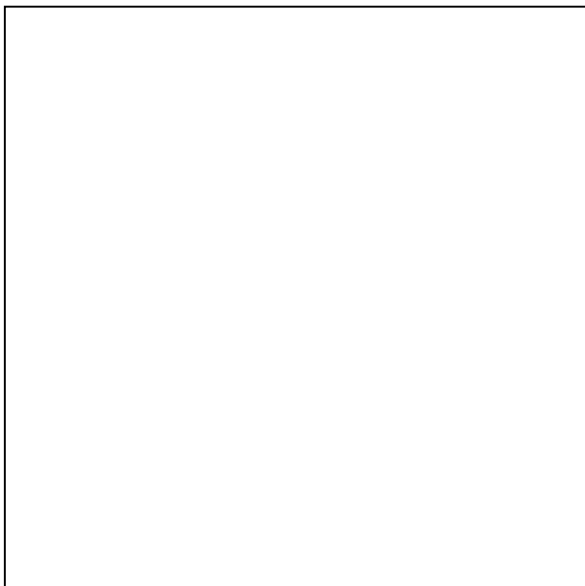
Voltage(V): 219.60 V
Current(A): 0.3410 A
Power(W): 72.53 W
Power Factor: 0.9650
Lamp Luminous Flux: 6580.55

Photometric Results

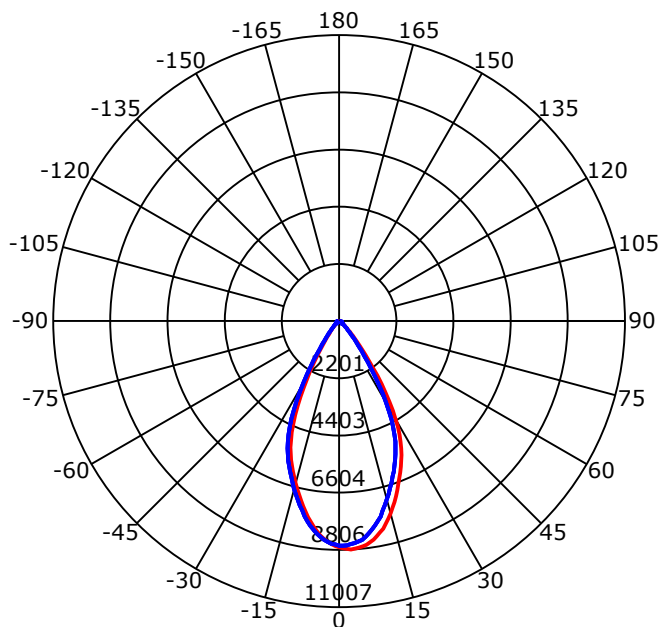
CIE Class: Direct
Luminaire Luminous Flux: 6580.547 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 90.73 lm/W
Beam Angle(50%) C0-180,C90-270: 53.6,53.4
Field Angle(10%) C0-180,C90-270: 78.0,78.0
S/MH C0-180,C90-270: 0.849,0.808

Max. Intensity: 8805.95 cd
Max.Intensity Angle: C=0 Gamma=3
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 8708.96 cd
Effective Luminous Flux: 5963.11 lm
ERP(ϕ use)(120deg): 6482.38 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 53.6 deg,53.4 deg

C0-180 — C90-270 —

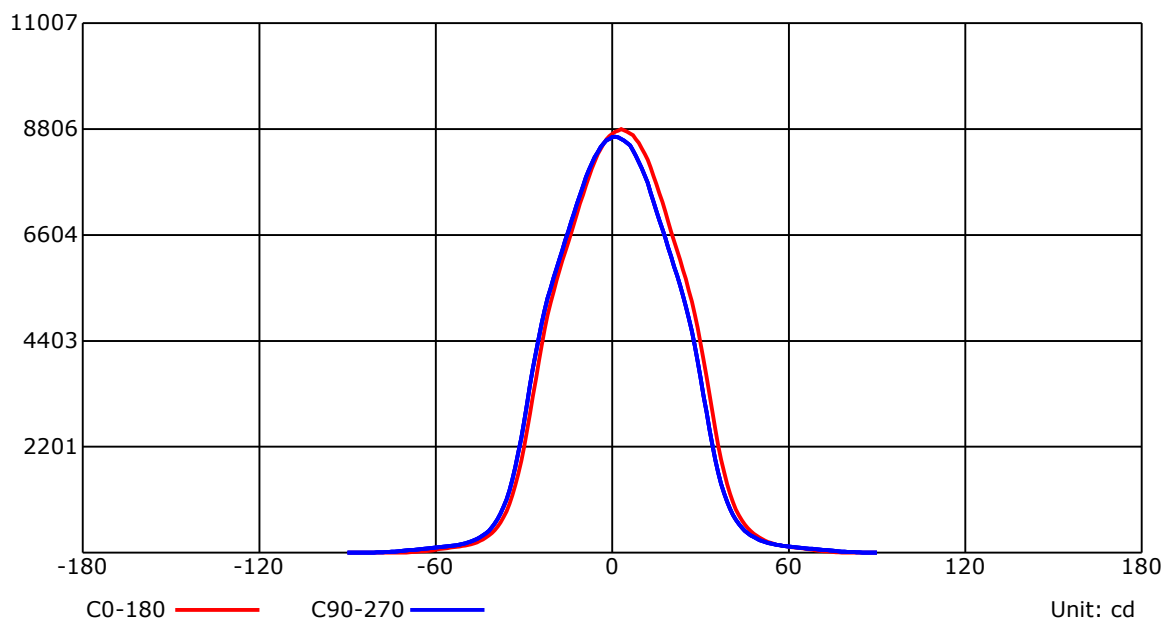
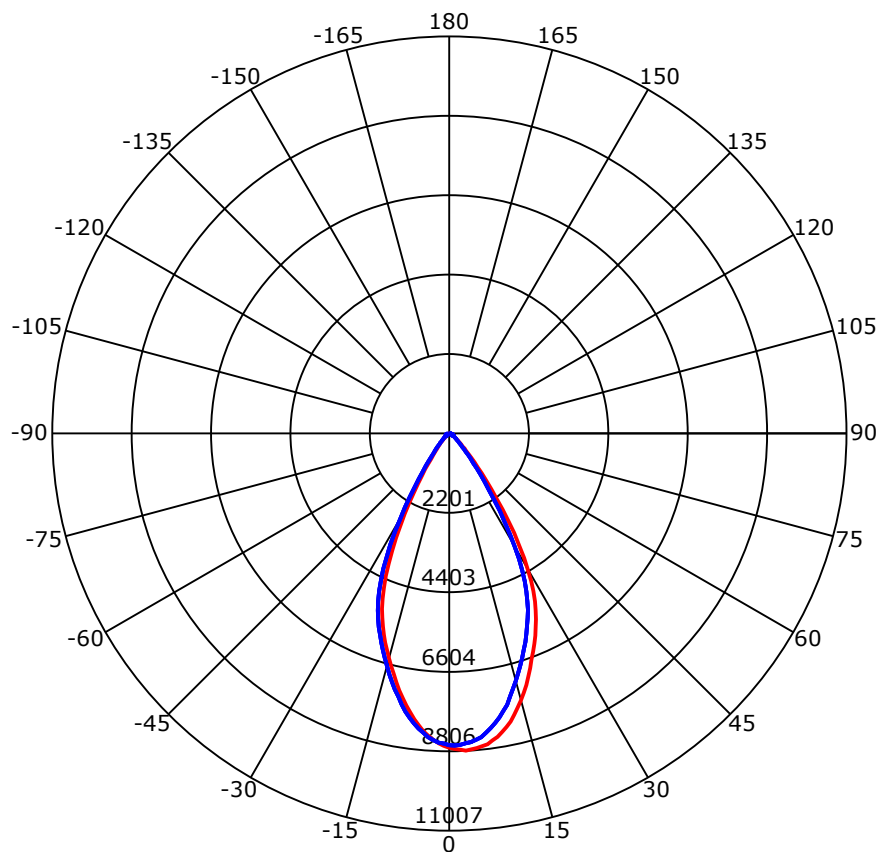
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/7/16 16:00:35

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



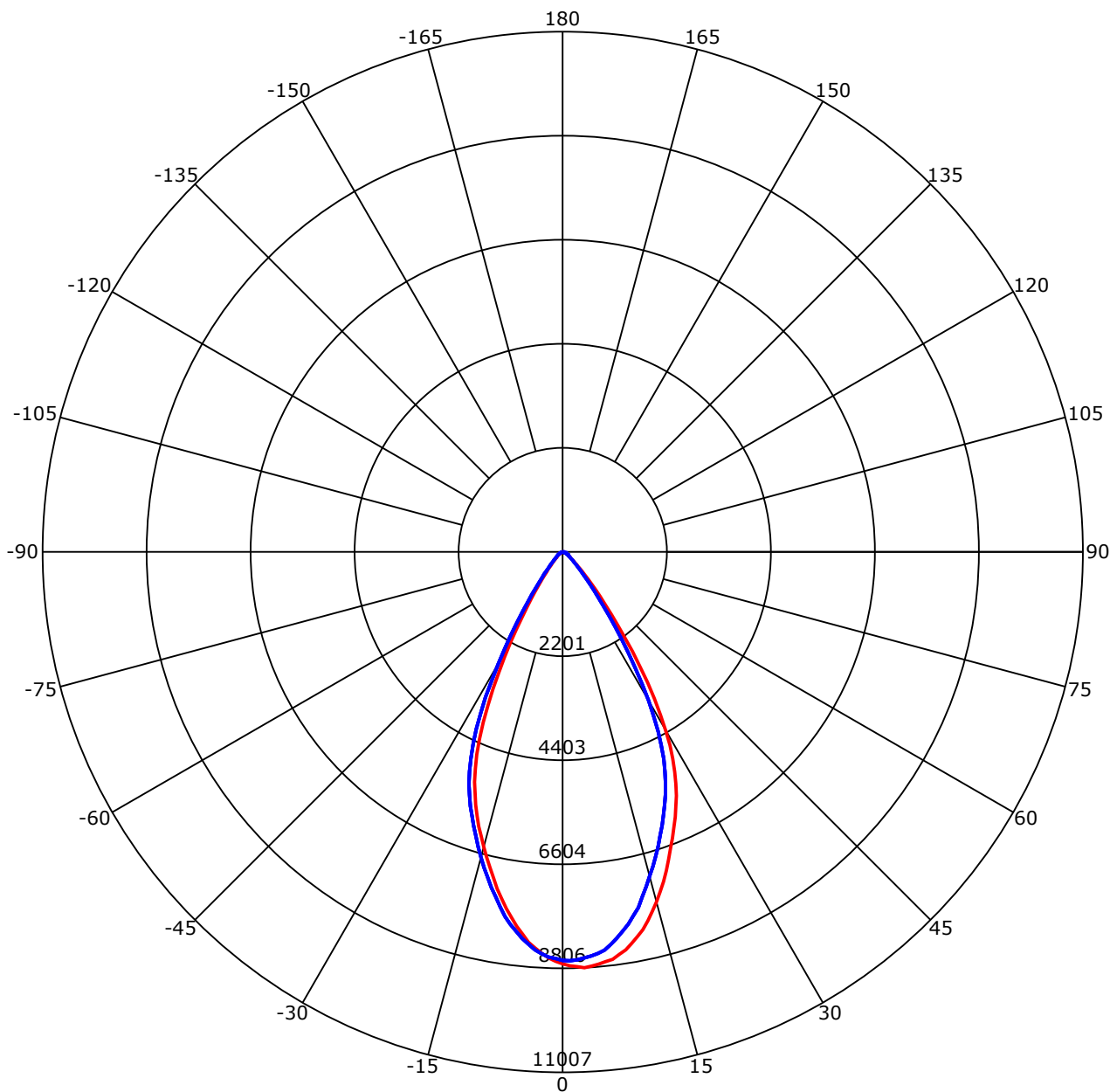
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/7/16 16:00:35

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G Interval: 1.0 Deg
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: 2025/7/16 16:00:35

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

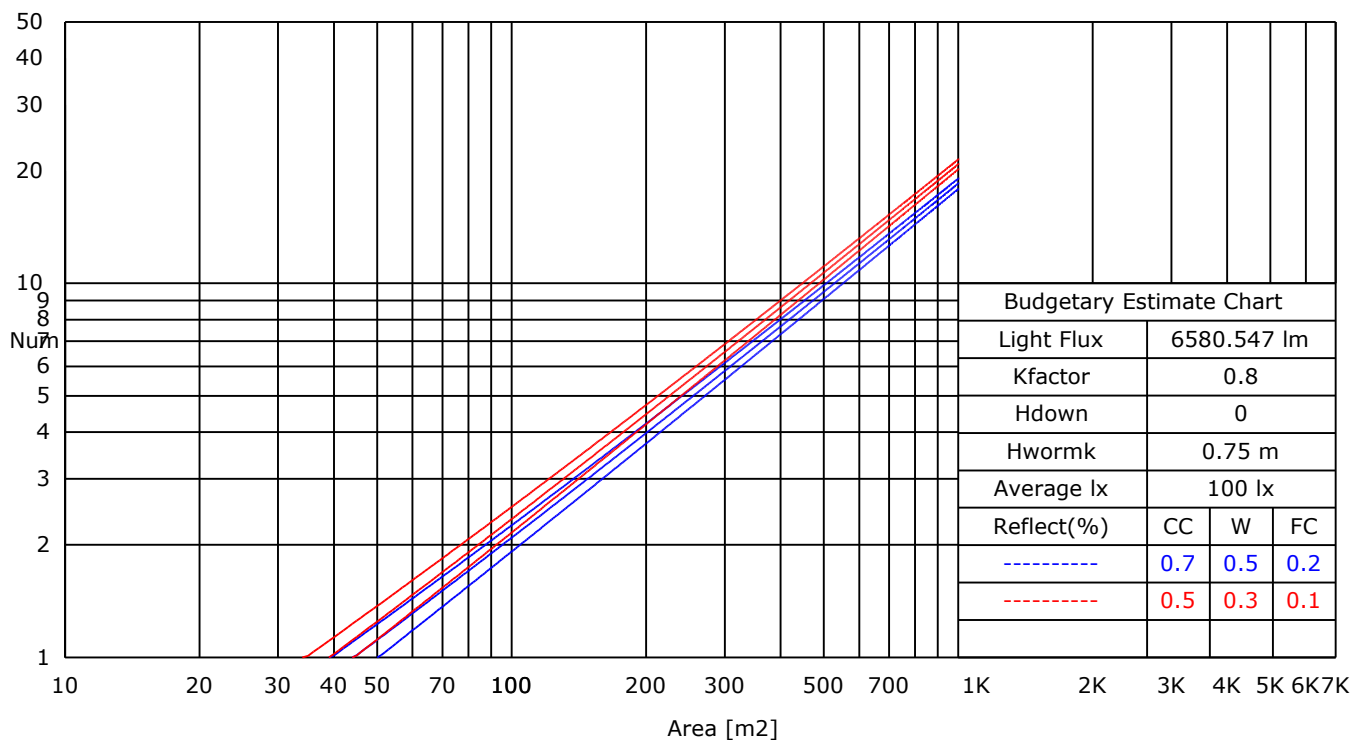
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UTILIZATION FACTORS TABLE

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	1.04	1.02	1.04	1.02	1.00	1.00	0.98	0.96	0.95	0.93	0.91	0.89	0.87	0.85	0.79
2	1.00	0.99	0.97	0.99	0.97	0.95	0.96	0.93	0.91	0.92	0.89	0.87	0.86	0.83	0.81	0.76
3	0.96	0.94	0.93	0.95	0.93	0.91	0.92	0.89	0.87	0.88	0.85	0.83	0.83	0.80	0.77	0.73
4	0.92	0.90	0.89	0.91	0.89	0.87	0.88	0.85	0.83	0.85	0.82	0.79	0.81	0.77	0.74	0.70
5	0.88	0.87	0.86	0.87	0.85	0.84	0.85	0.82	0.80	0.82	0.79	0.76	0.78	0.75	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	0.70	0.74	0.70	0.66	0.63
8	0.80	0.78	0.77	0.79	0.77	0.76	0.77	0.74	0.72	0.74	0.71	0.68	0.72	0.67	0.64	0.61
9	0.77	0.76	0.75	0.76	0.74	0.73	0.74	0.71	0.70	0.72	0.68	0.66	0.70	0.65	0.62	0.59
10	0.75	0.74	0.73	0.74	0.72	0.71	0.72	0.69	0.68	0.70	0.66	0.64	0.68	0.63	0.60	0.57

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



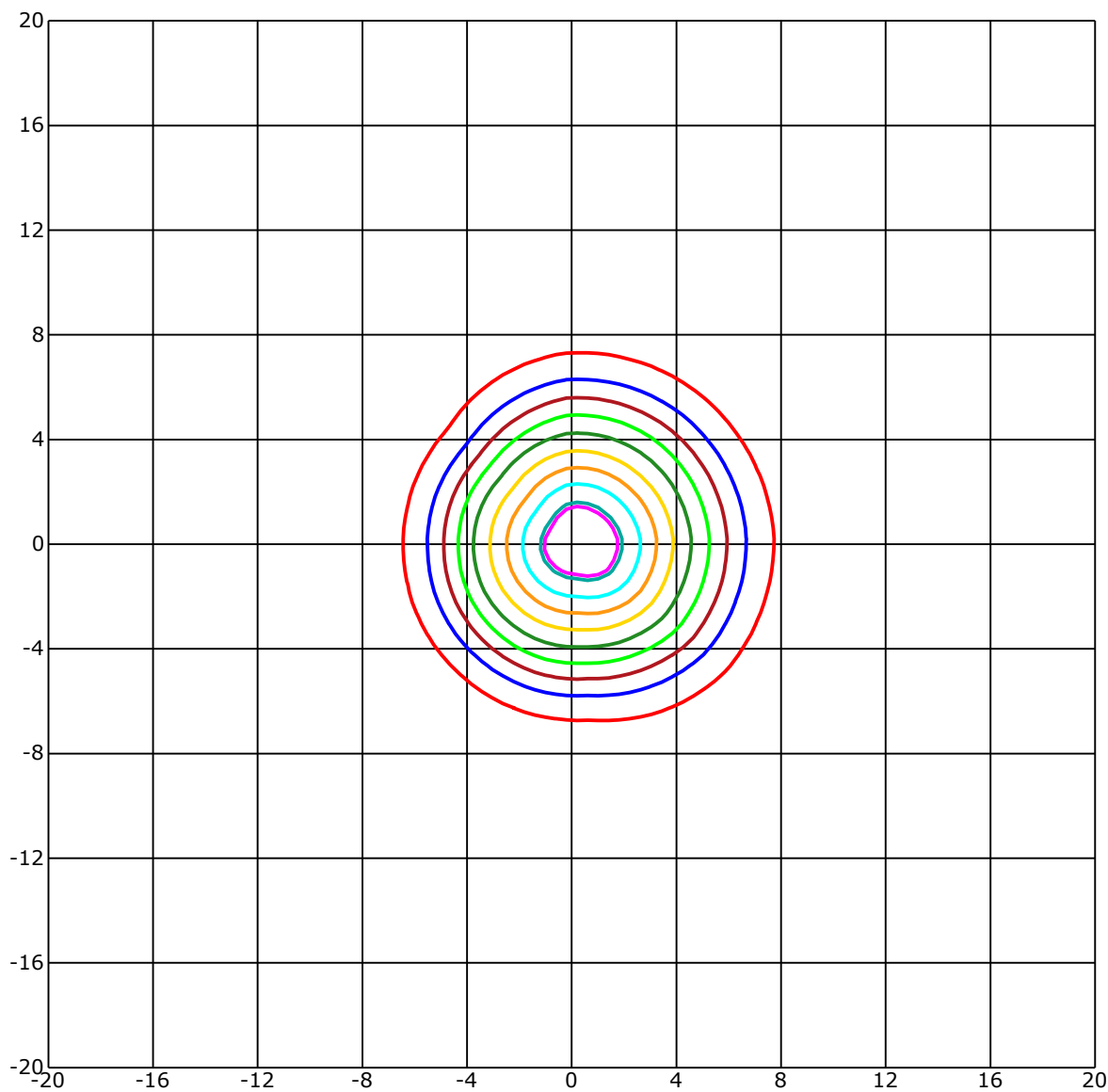
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/7/16 16:00:35

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)

80.682(92%Emax)	43.849(50%Emax)
78.928(90%Emax)	35.079(40%Emax)
70.158(80%Emax)	26.309(30%Emax)
61.389(70%Emax)	17.54(20%Emax)
52.619(60%Emax)	8.77(10%Emax)

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/7/16 16:00:35

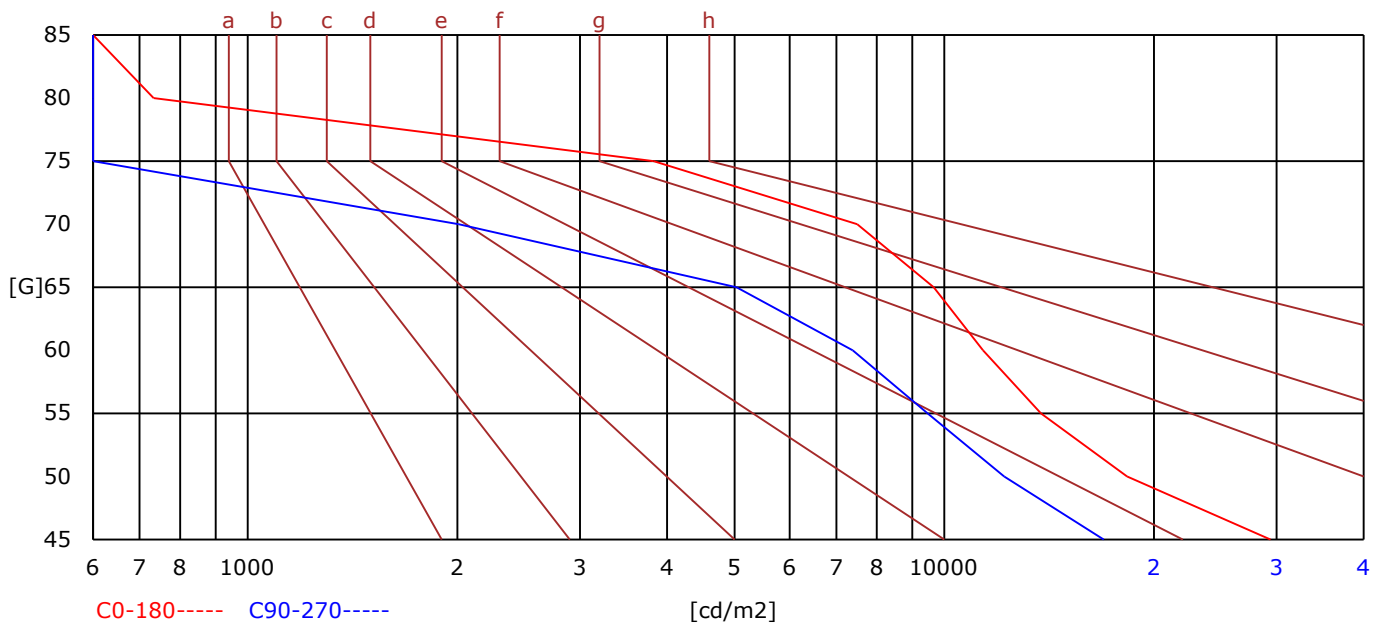
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	29398	18298	13760	11361	9657	7502	3828	733	0
C90	16930	12191	9469	7387	5034	2010	0	0	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



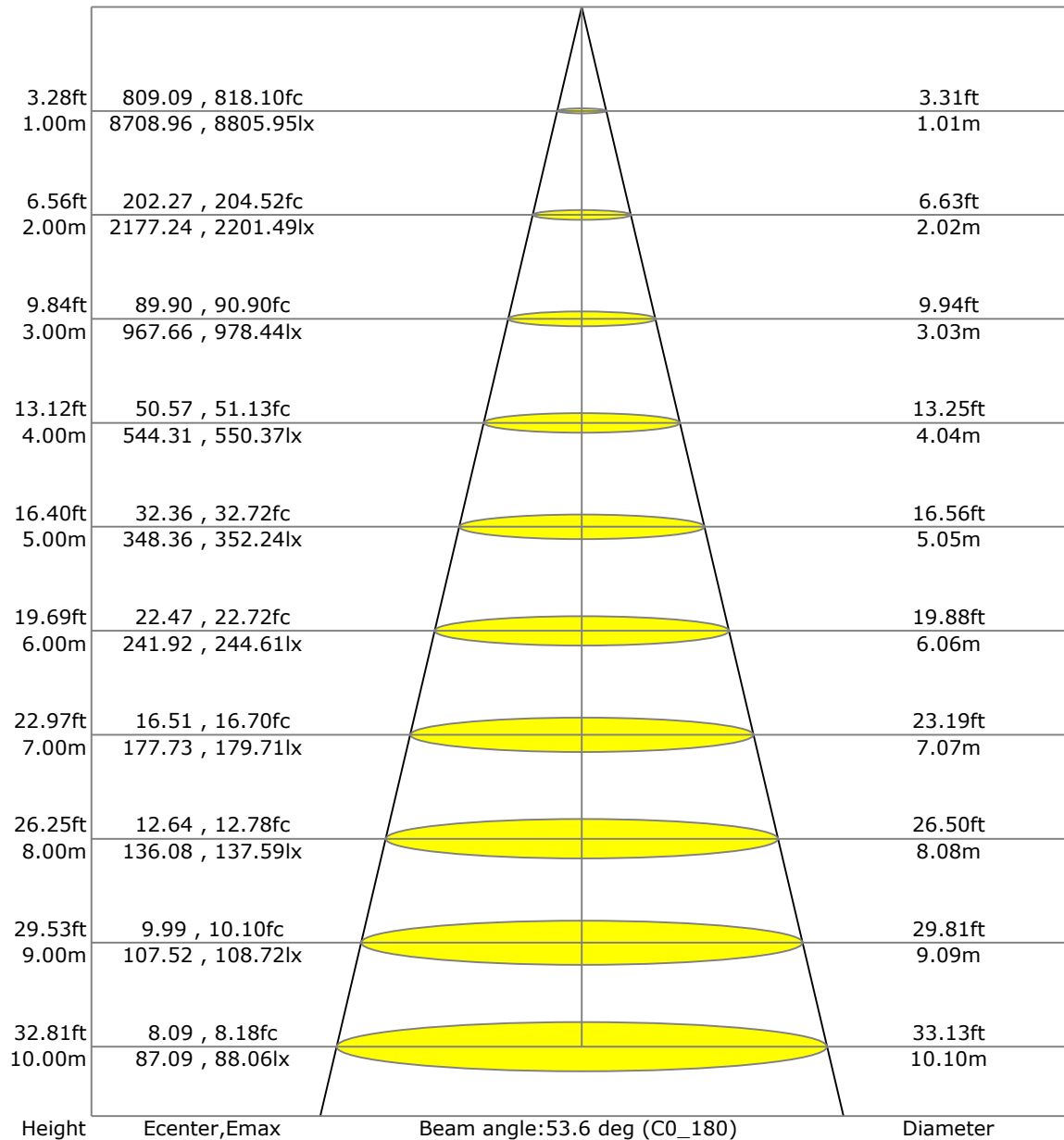
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/7/16 16:00:35

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: 2025/7/16 16:00:35

LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/7/16 16:00:35

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: 2025/7/16 16:00:35

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	11.70	11.75	11.90	11.93	12.18	11.65	11.71	11.85	11.89	12.14
3H	11.69	11.74	11.89	11.93	12.18	11.64	11.69	11.85	11.89	12.13
4H	11.67	11.72	11.88	11.92	12.17	11.63	11.68	11.84	11.87	12.12
6H	11.65	11.71	11.87	11.91	12.16	11.61	11.66	11.82	11.86	12.11
8H	11.65	11.70	11.86	11.90	12.15	11.60	11.65	11.82	11.85	12.11
12H	11.64	11.69	11.86	11.89	12.15	11.59	11.64	11.81	11.85	12.10
4H 2H	11.84	11.89	12.05	12.08	12.33	11.87	11.92	12.08	12.12	12.37
3H	11.84	11.89	12.06	12.09	12.35	11.87	11.92	12.09	12.13	12.38
4H	11.82	11.87	12.05	12.08	12.34	11.85	11.90	12.08	12.11	12.37
6H	11.80	11.85	12.04	12.07	12.33	11.83	11.88	12.06	12.10	12.36
8H	11.79	11.83	12.03	12.06	12.32	11.81	11.86	12.06	12.09	12.35
12H	11.77	11.82	12.02	12.05	12.32	11.80	11.85	12.05	12.08	12.35
8H 4H	11.81	11.86	12.03	12.07	12.32	11.87	11.92	12.09	12.12	12.38
6H	11.76	11.80	12.01	12.04	12.32	11.82	11.86	12.07	12.10	12.37
8H	11.74	11.79	12.01	12.03	12.31	11.80	11.85	12.06	12.09	12.37
12H	11.73	11.77	12.00	12.02	12.30	11.79	11.83	12.06	12.08	12.36
12H 4H	11.77	11.82	12.02	12.05	12.32	11.84	11.88	12.08	12.11	12.38
6H	11.74	11.79	12.01	12.03	12.31	11.81	11.85	12.07	12.09	12.37

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
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Temperature: 25
Operators: QC01
Test Date: 2025/7/16 16:00:35

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

ZONAL LUMINOUS FLUX TABLE

[illegible]

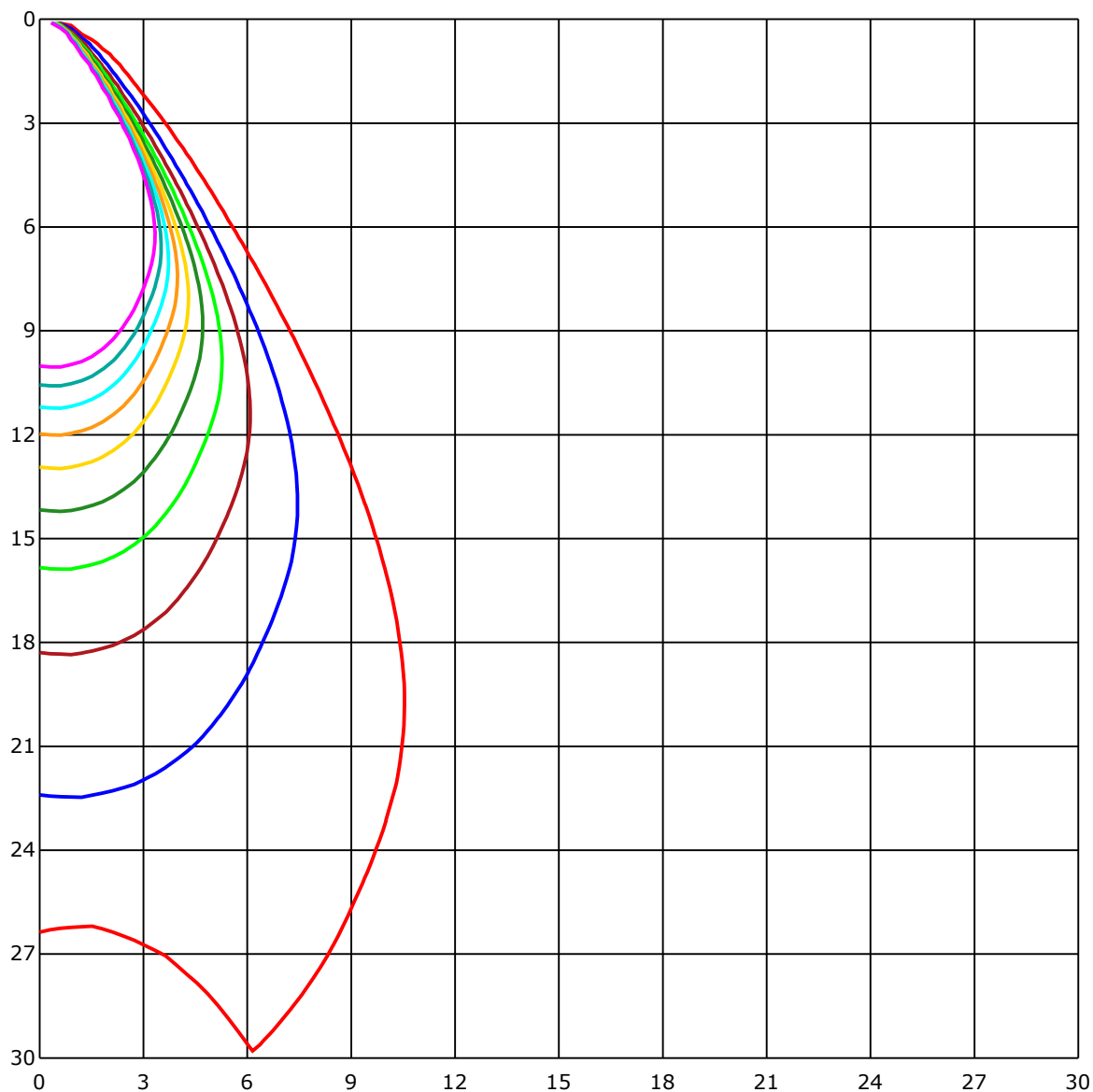
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G Range: 0 - 90 Deg
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Test Distance: 6.87 m
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SPACE ISOLX DIAGRAM



Unit of illumination:lx

86.809	43.405
78.128	34.724
69.448	26.043
60.767	17.362
52.086	8.681

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/7/16 16:00:35

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: 2025/7/16 16:00:35

LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	8708.96	8636.66	8641.94	8648.03	8708.96	8636.66	8641.94	8648.03	8708.96	
G1	8750.73	8673.99	8649.3	8587.66	8661.15	8591.44	8599.23	8667.76	8750.73	
G2	8773.34	8685.6	8633.49	8521.68	8592.67	8570.39	8571.29	8698.62	8773.34	
G3	8805.95	8676.77	8601.26	8428.85	8499.78	8467.83	8508.85	8689.19	8805.95	
G4	8777.68	8647.23	8568.93	8364.75	8396.8	8381.37	8434.75	8672.29	8777.68	
G5	8750.78	8611.64	8523.29	8200.18	8284.47	8271.78	8326.43	8648.12	8750.78	
G6	8712.88	8579.36	8464.76	8061.18	8130.42	8140.33	8220.0	8603.71	8712.88	
G7	8678.94	8470.71	8357.2	7923.65	7978.45	7994.12	8086.95	8551.56	8678.94	
G8	8591.53	8392.41	8245.49	7742.13	7806.75	7839.64	7953.2	8484.49	8591.53	
G9	8517.11	8294.48	8118.15	7577.27	7637.31	7672.09	7808.87	8389.39	8517.11	
G10	8404.82	8173.09	7992.8	7384.0	7445.41	7482.17	7624.57	8273.14	8404.82	
G11	8284.9	8030.22	7835.58	7204.61	7257.28	7296.69	7430.92	8143.78	8284.9	
G12	8165.58	7883.87	7688.61	6992.17	7051.03	7101.76	7254.92	8001.38	8165.58	
G13	8004.78	7726.18	7483.12	6798.43	6848.41	6904.81	7061.22	7863.52	8004.78	
G14	7830.16	7558.21	7296.36	6584.91	6650.99	6716.92	6880.55	7696.82	7830.16	
G15	7658.45	7357.43	7102.19	6397.16	6455.97	6518.79	6684.07	7507.19	7658.45	
G16	7473.2	7175.72	6919.54	6200.07	6252.93	6340.15	6490.33	7331.94	7473.2	
G17	7289.18	6975.14	6724.33	6013.92	6069.85	6137.96	6286.72	7133.34	7289.18	
G18	7088.03	6774.22	6540.97	5799.23	5863.88	5952.66	6100.39	6924.07	7088.03	
G19	6879.18	6577.45	6334.06	5601.85	5655.89	5744.1	5901.97	6721.64	6879.18	
G20	6668.12	6385.84	6155.42	5377.33	5427.79	5530.72	5721.54	6517.42	6668.12	
G21	6480.7	6195.11	5949.03	5153.57	5209.36	5307.34	5505.05	6330.85	6480.7	
G22	6280.3	6010.76	5755.61	4895.17	4938.54	5074.0	5289.73	6125.83	6280.3	
G23	6090.67	5809.04	5557.01	4612.27	4648.94	4804.22	5044.78	5930.05	6090.67	
G24	5880.12	5616.15	5347.41	4307.47	4322.67	4506.88	4782.7	5727.49	5880.12	
G25	5690.63	5404.9	5122.8	3972.33	3978.84	4194.44	4482.24	5532.09	5690.63	
G26	5454.55	5196.28	4877.09	3620.52	3612.45	3859.62	4172.3	5303.28	5454.55	
G27	5221.96	4930.71	4597.78	3269.42	3247.34	3497.01	3829.84	5056.86	5221.96	
G28	4955.96	4658.76	4302.61	2917.48	2883.5	3126.56	3480.16	4796.81	4955.96	
G29	4673.81	4357.93	3977.24	2571.9	2543.72	2762.91	3098.67	4495.69	4673.81	
G30	4345.61	4037.13	3636.19	2238.41	2203.86	2415.58	2731.62	4180.37	4345.61	
G31	4019.76	3694.81	3269.66	1936.06	1901.89	2086.91	2381.93	3834.47	4019.76	
G32	3650.82	3327.71	2913.51	1667.33	1626.12	1792.16	2066.99	3475.91	3650.82	
G33	3291.84	2974.73	2559.39	1439.6	1396.84	1533.85	1773.99	3118.39	3291.84	
G34	2928.47	2630.99	2236.24	1236.42	1190.26	1312.31	1517.52	2766.78	2928.47	
G35	2570.67	2296.51	1931.44	1065.33	1013.7	1117.81	1294.38	2424.98	2570.67	
G36	2233.45	1993.5	1667.04	916.42	859.79	959.61	1108.56	2109.47	2233.45	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

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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

Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	1936.49	1711.41	1431.58	795.83	732.83	825.95	949.13	1819.11	1936.49	
G38	1667.42	1463.39	1227.73	687.42	627.62	716.12	816.22	1564.67	1667.42	
G39	1427.75	1255.01	1056.88	602.37	542.53	620.54	702.48	1347.14	1427.75	
G40	1226.08	1076.47	914.06	531.01	469.66	547.63	609.5	1160.48	1226.08	
G41	1055.89	923.45	790.41	463.47	410.42	479.0	528.75	1000.39	1055.89	
G42	902.69	793.95	687.33	411.79	359.31	422.03	456.39	859.6	902.69	
G43	775.49	684.12	596.05	367.95	314.47	377.24	400.84	745.19	775.49	
G44	675.86	599.26	521.71	331.18	277.94	339.82	358.08	647.97	675.86	
G45	590.72	523.84	454.84	301.68	245.24	307.91	320.04	569.9	590.72	
G46	516.38	458.85	406.98	273.93	217.11	282.62	287.1	503.83	516.38	
G47	452.67	407.69	360.63	252.03	196.67	256.94	259.44	443.65	452.67	
G48	396.97	363.98	324.9	231.74	177.04	236.6	235.23	396.83	396.97	
G49	351.99	327.59	292.29	213.24	163.77	217.34	212.86	358.46	351.99	
G50	313.58	296.4	264.44	197.47	149.85	203.04	196.43	324.38	313.58	
G51	279.26	270.49	240.28	183.41	140.51	187.84	179.58	296.07	279.26	
G52	247.83	247.83	222.06	169.15	130.74	174.58	168.35	271.71	247.83	
G53	222.39	227.82	204.08	157.31	122.48	161.37	156.17	250.52	222.39	
G54	199.45	211.77	187.47	146.45	113.84	152.3	146.59	233.58	199.45	
G55	179.4	198.89	174.49	136.87	107.0	140.88	138.76	216.3	179.4	
G56	163.3	184.21	163.44	126.2	97.41	131.3	132.67	202.76	163.3	
G57	153.2	172.93	152.92	117.8	90.76	122.43	125.31	188.88	153.2	
G58	141.07	162.59	144.85	108.79	80.14	115.02	119.22	177.74	141.07	
G59	131.82	152.12	136.97	101.24	71.69	105.3	112.9	168.96	131.82	
G60	124.13	143.15	130.22	93.07	60.13	97.41	107.28	157.92	124.13	
G61	115.92	135.31	123.47	85.24	49.18	88.87	100.67	150.61	115.92	
G62	108.22	127.86	116.62	77.07	42.05	82.22	95.05	140.93	108.22	
G63	101.14	118.13	110.91	69.9	36.39	72.97	87.46	134.23	101.14	
G64	92.51	110.82	104.21	61.69	30.73	64.38	81.18	125.36	92.51	
G65	85.19	102.84	97.37	53.62	25.72	55.36	74.29	118.18	85.19	
G66	77.73	95.76	90.19	46.06	20.81	46.63	69.38	109.69	77.73	
G67	68.67	87.31	83.07	39.41	16.09	37.62	62.77	101.66	68.67	
G68	58.57	81.08	78.35	31.1	12.18	29.78	57.2	93.69	58.57	
G69	47.62	72.21	71.74	24.21	8.4	24.26	52.39	86.42	47.62	
G70	41.3	64.66	66.45	17.32	4.81	21.24	48.09	77.45	41.3	
G71	36.2	57.25	62.49	12.98	2.17	14.96	42.1	69.66	36.2	
G72	28.88	49.23	56.83	8.64	1.04	11.28	36.48	61.26	28.88	
G73	25.39	41.06	51.78	4.86	0.85	6.28	30.49	53.8	25.39	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/7/16 16:00:35

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: 2025/7/16 16:00:35

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