

Report No.:

Test Time: 2025/8/1 17:44:55

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP104SCT095H78-2F-EB-15°
Lamp Type:
Luminous Width: 90 mm
Luminous Length: 185 mm
Luminous Height: 70 mm

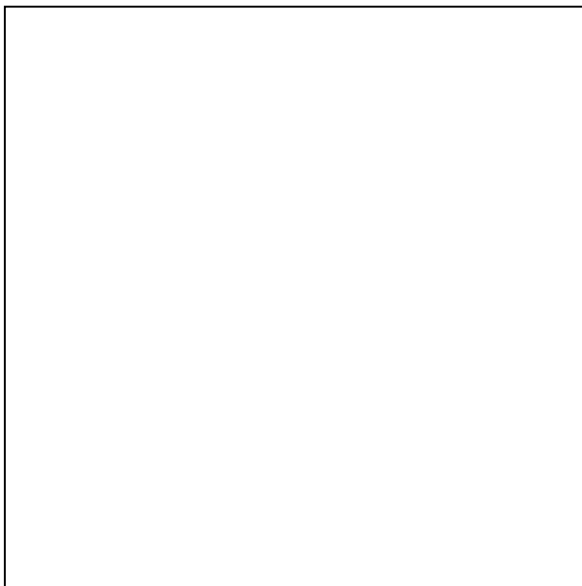
Voltage(V): 219.80 V
Current(A): 0.1020 A
Power(W): 20.58 W
Power Factor: 0.9160
Lamp Luminous Flux: 1499.46

Photometric Results

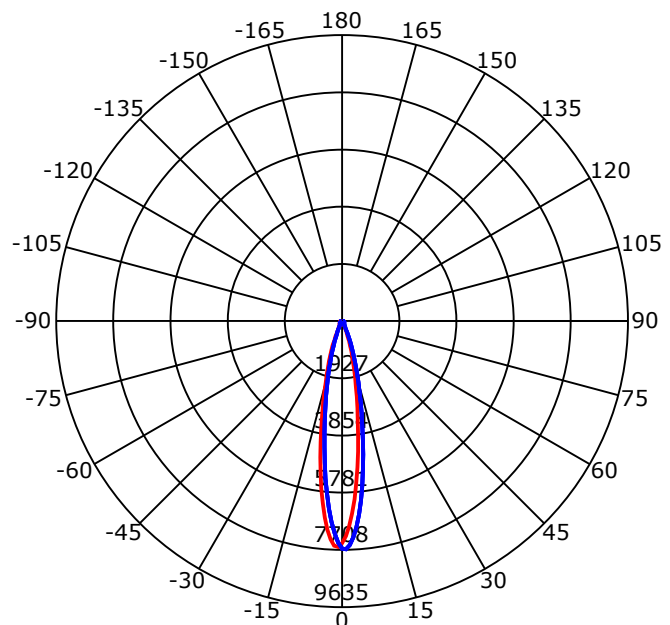
CIE Class: Direct
Luminaire Luminous Flux: 1499.458 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 72.86 lm/W
Beam Angle(50%) C0-180,C90-270: 18.9,19.4
Field Angle(10%) C0-180,C90-270: 40.3,40.8
S/MH C0-180,C90-270: 0.353,0.353

Max. Intensity: 7708.29 cd
Max.Intensity Angle: C=225 Gamma=0
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 7484.82 cd
Effective Luminous Flux: 1029.87 lm
ERP(ϕ use)(120deg): 1407.72 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 18.9 deg,19.4 deg

C0-180 — C90-270 —

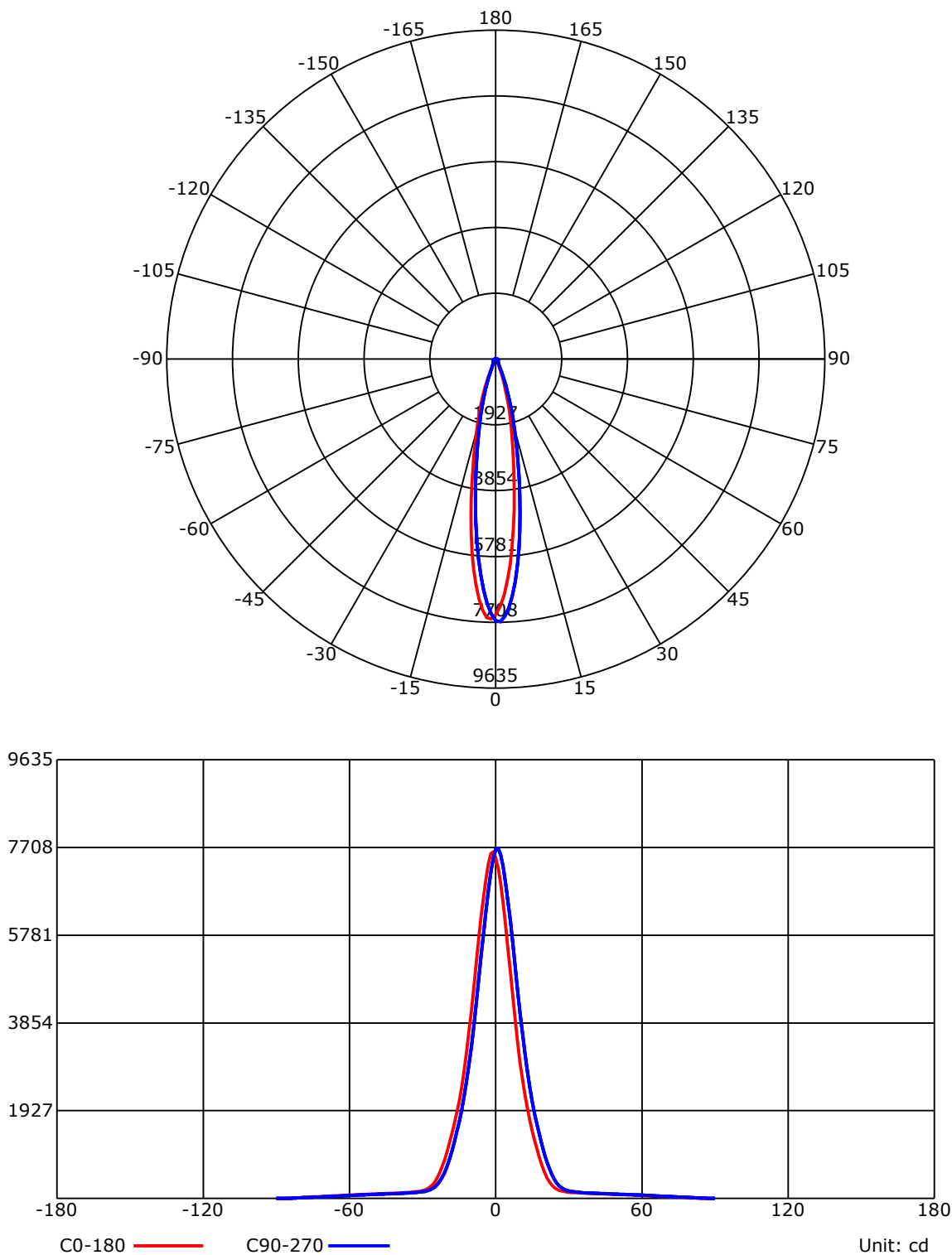
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/8/1 17:44:55

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: 2025/8/1 17:44:55

Luminous Intensity Distribution Curve



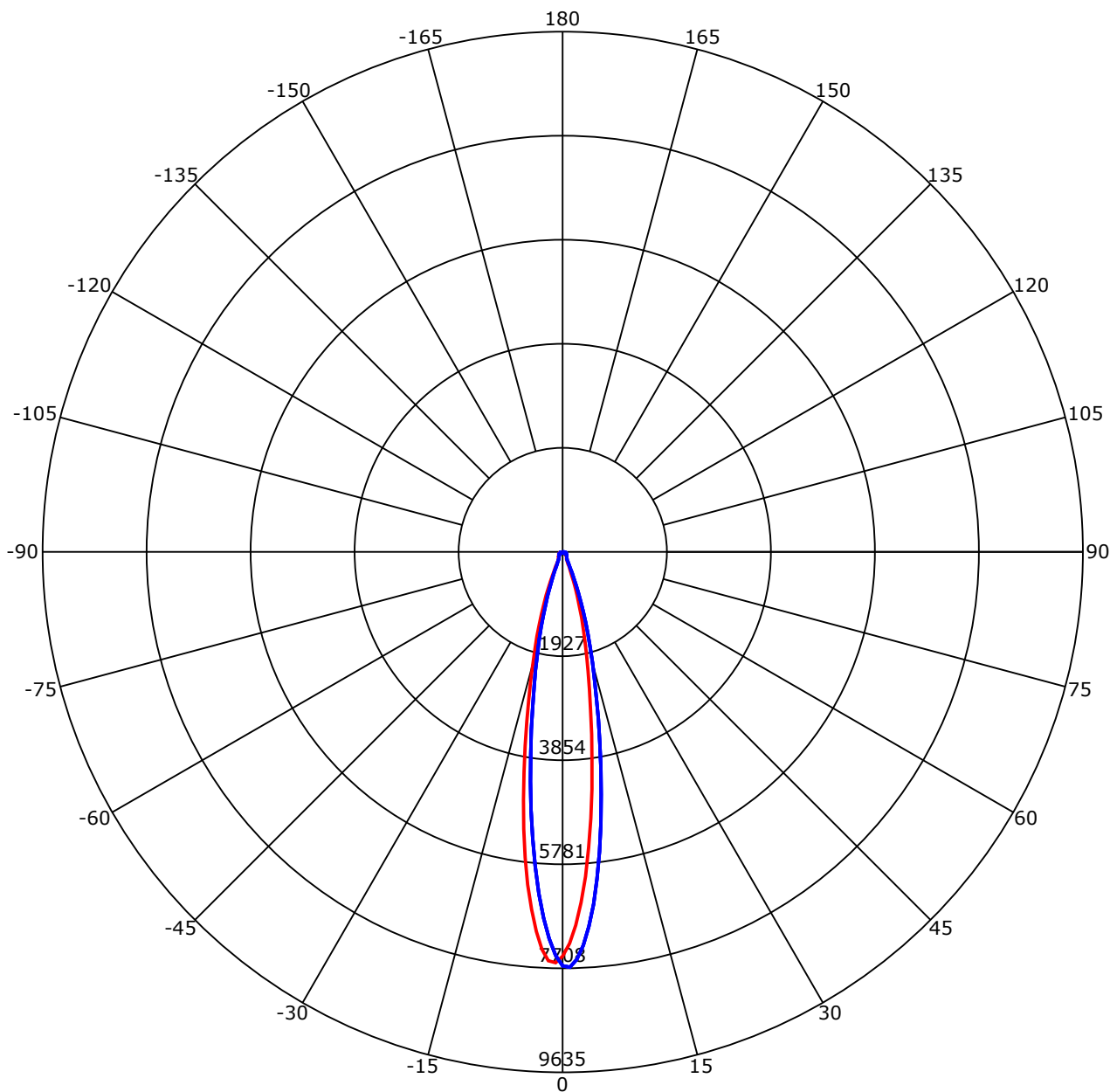
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/8/1 17:44:55

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 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: 2025/8/1 17:44:55

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

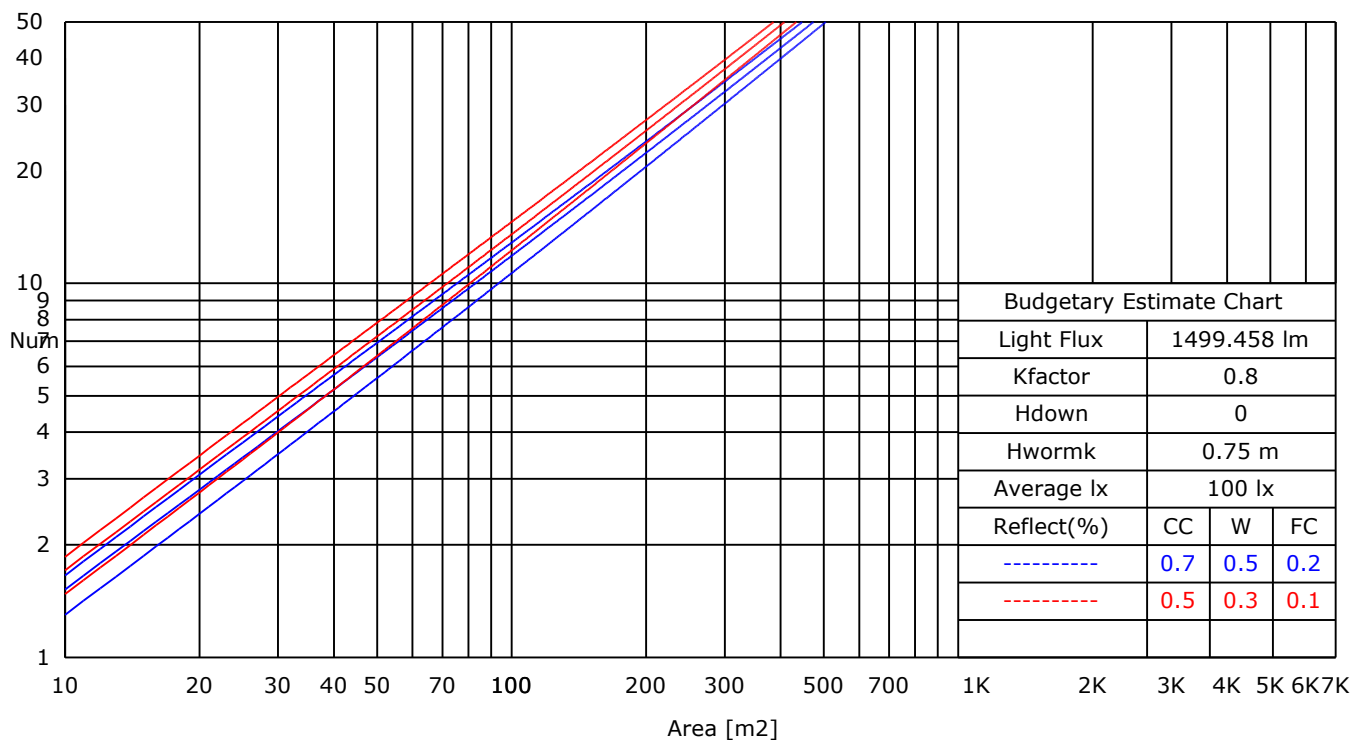
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UTILIZATION FACTORS TABLE

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	0.84	0.80	0.77	0.84	0.79	0.76	0.82	0.77	0.73	0.78	0.74	0.69	0.74	0.69	0.64	0.59
2	0.78	0.75	0.73	0.78	0.74	0.71	0.77	0.72	0.68	0.74	0.69	0.65	0.71	0.66	0.61	0.56
3	0.74	0.71	0.69	0.74	0.70	0.68	0.73	0.68	0.65	0.71	0.66	0.62	0.68	0.63	0.58	0.54
4	0.70	0.68	0.66	0.70	0.67	0.64	0.70	0.65	0.62	0.68	0.63	0.59	0.66	0.60	0.55	0.51
5	0.67	0.65	0.63	0.67	0.64	0.62	0.67	0.62	0.59	0.65	0.60	0.56	0.63	0.58	0.53	0.49
6	0.65	0.63	0.61	0.65	0.62	0.60	0.64	0.60	0.57	0.63	0.58	0.54	0.61	0.56	0.51	0.48
7	0.63	0.61	0.59	0.63	0.60	0.58	0.62	0.58	0.55	0.61	0.56	0.53	0.60	0.54	0.50	0.46
8	0.61	0.59	0.58	0.61	0.58	0.57	0.60	0.57	0.54	0.59	0.55	0.51	0.58	0.53	0.49	0.45
9	0.59	0.58	0.56	0.59	0.57	0.55	0.59	0.55	0.53	0.58	0.53	0.50	0.57	0.51	0.47	0.44
10	0.58	0.56	0.55	0.58	0.56	0.54	0.57	0.54	0.52	0.56	0.52	0.49	0.55	0.50	0.46	0.43

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



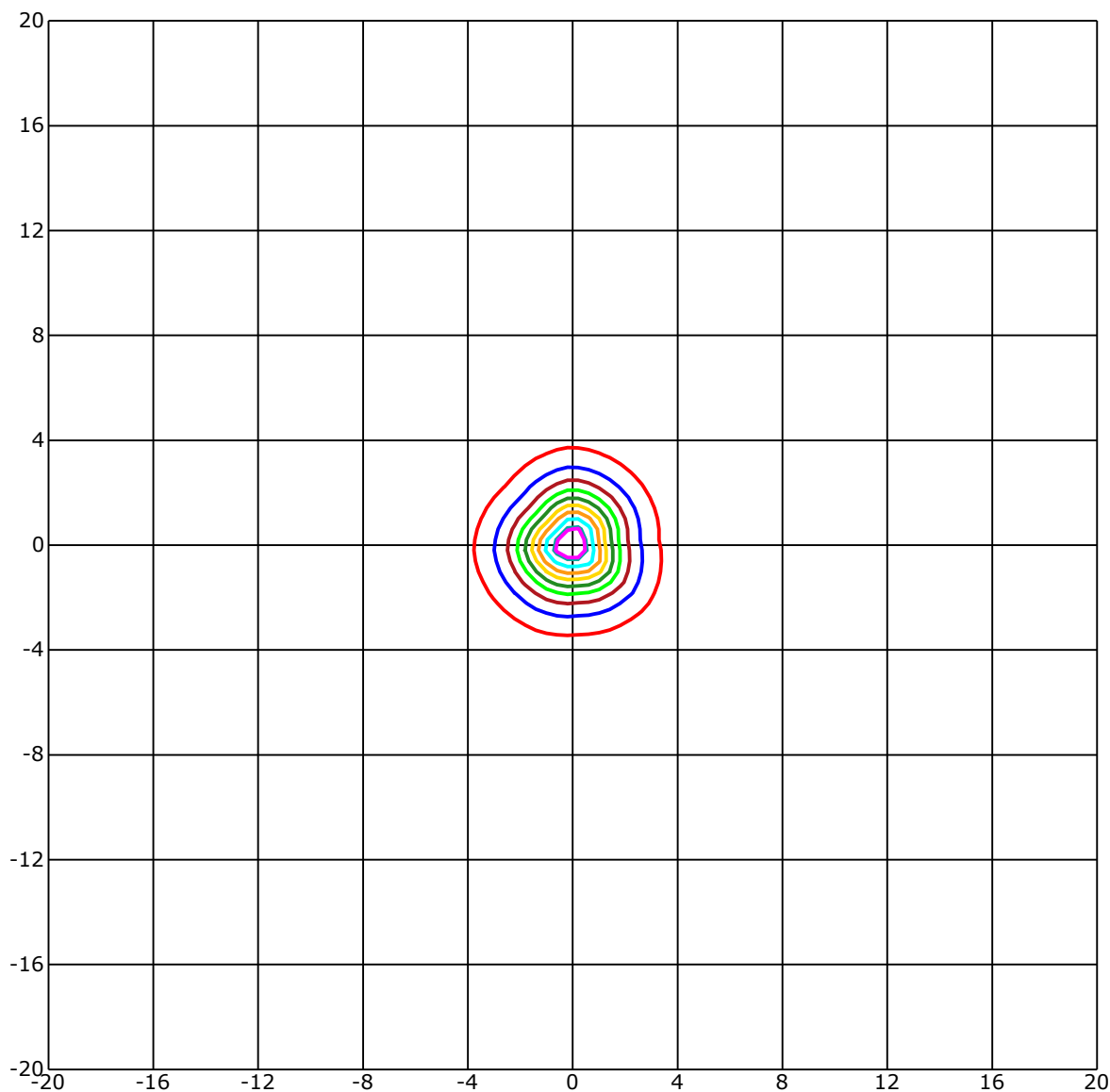
C Range: 0 - 360 Deg
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Test Speed: High
Temperature: 25
Operators: QC01
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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ISOLX DIAGRAM



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/8/1 17:44:55

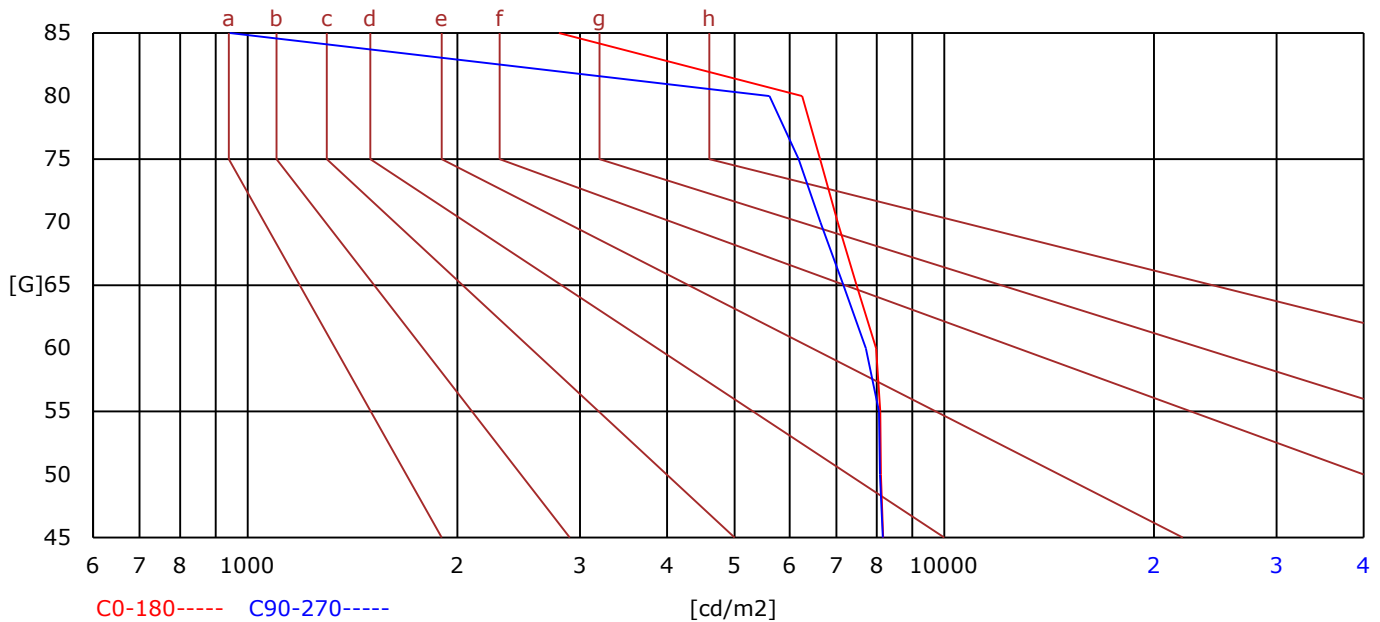
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	8170	8110	8090	7982	7485	7028	6637	6252	2797
C90	8166	8088	8060	7716	7163	6639	6177	5615	943
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



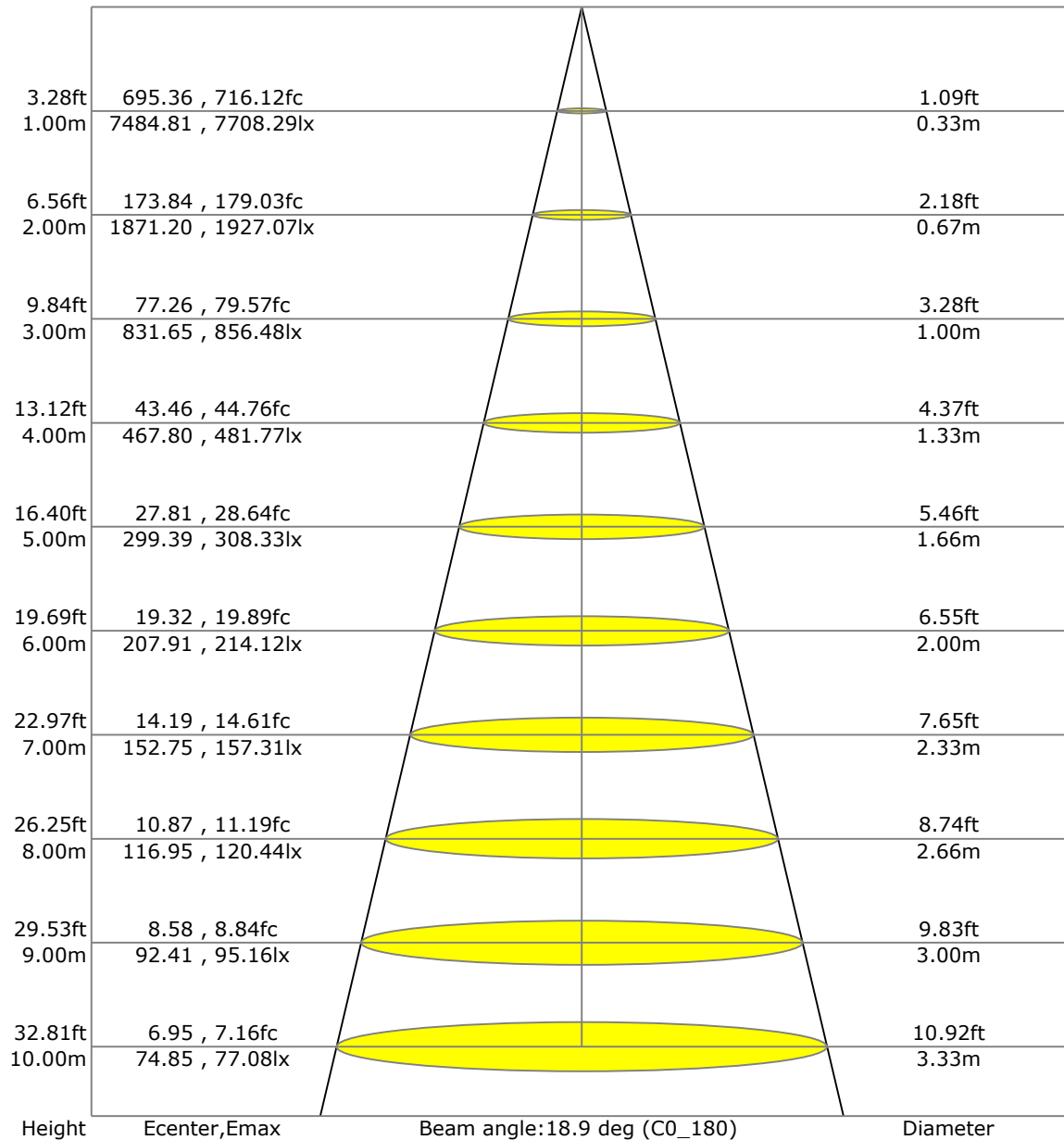
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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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: 2025/8/1 17:44:55

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

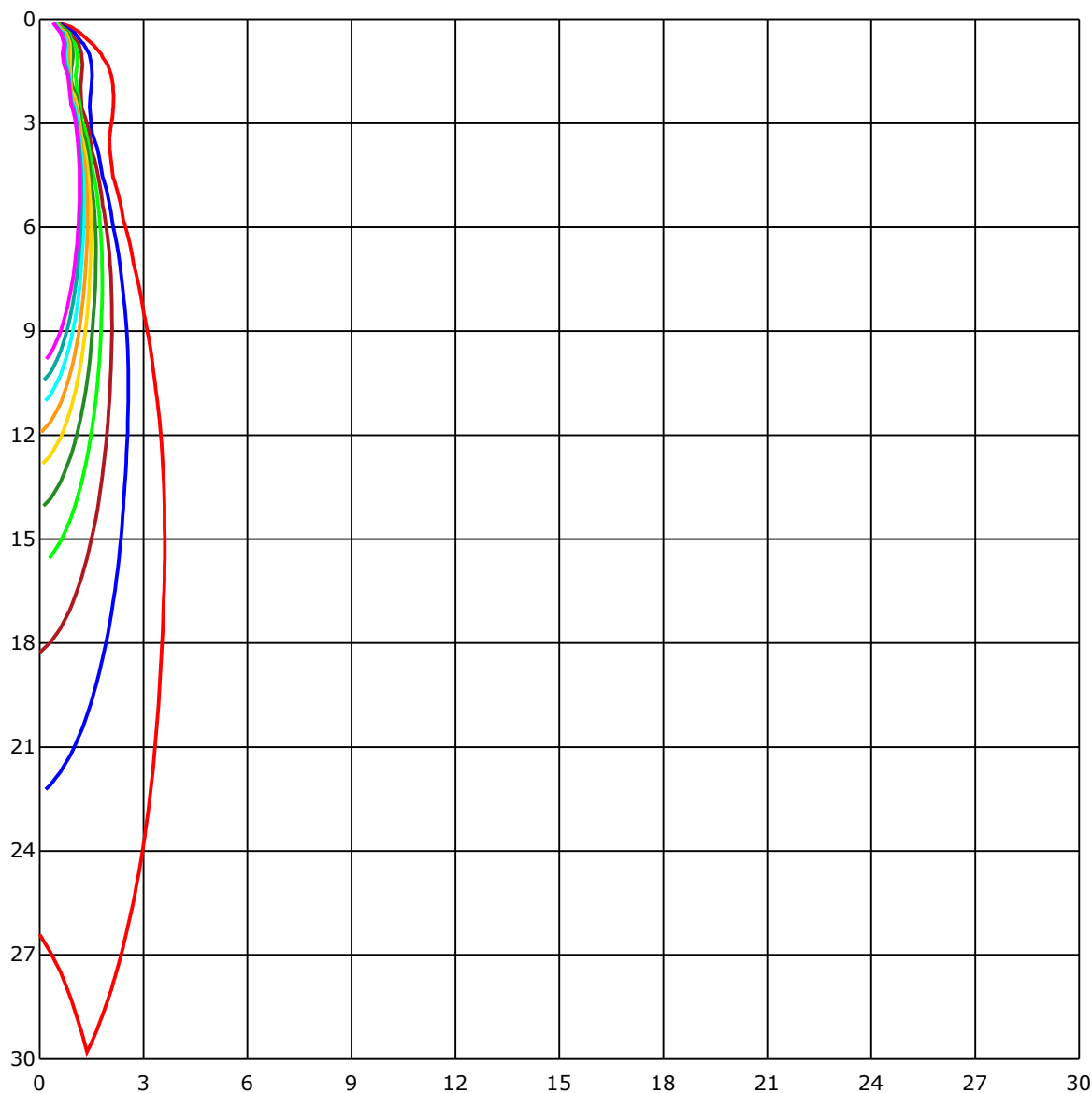
RHOCC	70	70	50	50	30	70	70	50	50	30
RHOW	50	30	50	30	30	50	30	50	30	30
RHOF	20	20	20	20	20	20	20	20	20	20
Room Size X Y	Viewed Endwise					Viewed Crosswise				
2H 2H	10.62	10.69	10.82	10.88	11.12	10.79	10.86	10.99	11.04	11.29
3H	10.80	10.87	11.01	11.07	11.31	10.94	11.01	11.15	11.20	11.45
4H	10.83	10.90	11.04	11.10	11.35	10.96	11.03	11.17	11.23	11.47
6H	10.82	10.90	11.04	11.10	11.35	10.95	11.02	11.16	11.22	11.47
8H	10.81	10.89	11.03	11.09	11.34	10.94	11.01	11.16	11.21	11.47
12H	10.80	10.88	11.03	11.08	11.34	10.93	11.00	11.15	11.20	11.46
4H 2H	12.69	12.76	12.90	12.96	13.21	13.12	13.19	13.33	13.39	13.63
3H	13.05	13.12	13.27	13.33	13.58	13.44	13.51	13.66	13.72	13.97
4H	13.14	13.21	13.37	13.42	13.68	13.51	13.58	13.74	13.79	14.05
6H	13.17	13.24	13.41	13.46	13.73	13.52	13.59	13.76	13.81	14.08
8H	13.16	13.23	13.41	13.46	13.73	13.51	13.58	13.75	13.80	14.07
12H	13.15	13.22	13.40	13.45	13.72	13.49	13.56	13.74	13.79	14.07
8H 4H	12.99	13.06	13.21	13.27	13.52	13.70	13.78	13.92	13.98	14.23
6H	13.66	13.73	13.92	13.97	14.24	14.36	14.42	14.61	14.66	14.94
8H	13.67	13.74	13.94	13.98	14.26	14.35	14.42	14.62	14.67	14.94
12H	13.66	13.72	13.93	13.98	14.26	14.34	14.40	14.61	14.66	14.94
12H 4H	13.57	13.64	13.82	13.87	14.14	14.40	14.47	14.65	14.70	14.97
6H	13.66	13.72	13.92	13.97	14.25	14.48	14.55	14.75	14.79	15.07

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SPACE ISOLX DIAGRAM



Unit of illumination:lx

74.714	37.357
67.243	29.886
59.771	22.414
52.3	14.943
44.829	7.471

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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

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	7484.82	7708.29	7661.47	7638.44	7484.82	7708.29	7661.47	7638.44	7484.82	
G1	7248.36	7612.44	7687.62	7494.21	7607.95	7614.61	7468.96	7615.46	7248.36	
G2	6915.57	7401.98	7546.12	7206.26	7573.88	7362.01	7165.39	7453.1	6915.57	
G3	6502.32	7093.08	7292.35	6822.17	7365.22	7022.43	6784.37	7182.9	6502.32	
G4	6022.56	6706.68	6946.91	6370.4	7040.5	6605.63	6339.2	6824.53	6022.56	
G5	5495.61	6255.48	6539.51	5879.84	6639.9	6147.4	5842.22	6397.97	5495.61	
G6	4957.23	5750.94	6082.64	5347.79	6192.14	5648.67	5327.11	5920.8	4957.23	
G7	4425.75	5225.36	5590.24	4799.69	5699.59	5133.75	4805.12	5407.11	4425.75	
G8	3907.76	4692.98	5070.74	4267.31	5178.77	4623.31	4289.02	4891.06	3907.76	
G9	3419.7	4167.44	4548.74	3753.1	4647.2	4124.25	3796.28	4372.93	3419.7	
G10	2972.23	3680.18	4065.07	3284.86	4135.25	3643.98	3342.58	3874.21	2972.23	
G11	2591.25	3223.88	3593.34	2875.42	3654.27	3204.15	2927.1	3407.95	2591.25	
G12	2254.12	2822.0	3164.46	2502.24	3203.4	2804.06	2562.79	2994.64	2254.12	
G13	1973.92	2465.0	2779.71	2188.95	2800.52	2458.35	2239.97	2624.81	1973.92	
G14	1706.31	2145.81	2432.29	1904.58	2444.33	2160.72	1944.09	2298.77	1706.31	
G15	1475.52	1855.41	2122.49	1655.53	2138.11	1888.87	1685.78	2018.28	1475.52	
G16	1263.56	1602.52	1849.69	1430.63	1872.11	1642.5	1453.9	1759.55	1263.56	
G17	1059.29	1372.34	1600.35	1224.43	1634.95	1417.75	1232.78	1525.59	1059.29	
G18	876.07	1156.37	1380.89	1030.92	1421.38	1210.03	1034.79	1304.81	876.07	
G19	717.44	962.77	1169.07	853.18	1222.92	1016.01	862.43	1103.09	717.44	
G20	576.56	789.98	976.41	696.91	1028.23	844.64	709.23	919.35	576.56	
G21	458.42	640.08	803.81	559.8	854.45	689.31	575.19	752.93	458.42	
G22	364.31	512.98	656.04	447.47	700.31	557.35	462.95	607.85	364.31	
G23	292.34	407.31	527.14	356.81	567.35	447.8	373.0	486.32	292.34	
G24	240.52	325.71	422.41	285.64	454.6	362.52	304.56	390.98	240.52	
G25	205.26	265.06	339.58	235.28	364.93	298.9	253.68	319.9	205.26	
G26	179.07	221.12	277.33	199.5	297.2	251.61	215.08	266.05	179.07	
G27	161.79	188.6	232.63	174.35	249.2	216.54	187.7	227.54	161.79	
G28	150.13	166.61	201.15	157.07	213.94	192.33	168.78	200.26	150.13	
G29	142.06	151.93	178.69	146.03	189.92	174.53	154.71	181.0	142.06	
G30	135.74	141.69	163.63	138.29	172.74	162.4	145.74	167.12	135.74	
G31	131.63	134.23	152.97	132.25	160.52	153.63	139.04	157.68	131.63	
G32	127.43	128.75	145.04	127.67	152.02	146.92	133.57	150.13	127.43	
G33	124.32	124.46	138.99	123.99	145.56	141.64	129.18	144.19	124.32	
G34	121.44	120.87	134.32	121.15	140.08	136.87	126.06	139.75	121.44	
G35	118.7	117.99	130.07	118.32	136.16	132.72	122.43	136.26	118.7	
G36	115.92	115.54	126.53	115.49	132.2	129.84	119.41	131.73	115.92	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/8/1 17:44:55

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	114.22	112.8	123.23	113.6	129.46	126.11	116.62	128.61	114.22	
G38	111.2	110.72	120.73	110.87	125.78	123.18	114.36	125.4	111.2	
G39	109.17	108.32	117.57	108.65	123.09	120.21	111.43	122.33	109.17	
G40	106.81	106.24	115.21	106.19	120.3	117.61	109.02	119.31	106.81	
G41	104.4	104.26	112.47	104.21	117.61	114.97	106.71	117.1	104.4	
G42	102.18	101.85	110.35	102.04	114.92	112.56	104.49	113.98	102.18	
G43	100.48	99.87	107.89	100.1	112.71	110.02	102.09	111.62	100.48	
G44	98.03	97.89	105.91	98.22	110.02	108.27	100.15	109.26	98.03	
G45	96.33	96.19	103.74	96.14	107.8	105.72	98.31	106.81	96.33	
G46	94.11	94.25	101.47	94.39	105.58	103.55	96.19	104.64	94.11	
G47	92.36	92.36	99.4	92.41	103.6	101.28	94.11	102.65	92.36	
G48	90.38	90.38	97.46	90.38	101.71	99.54	92.03	100.2	90.38	
G49	88.16	89.01	95.38	88.49	99.35	97.04	90.29	98.22	88.16	
G50	86.37	86.8	93.4	86.56	97.27	95.05	88.12	96.14	86.37	
G51	84.48	84.91	91.42	84.81	95.15	92.93	86.37	93.83	84.48	
G52	82.22	83.02	89.34	82.59	92.98	91.0	83.96	91.8	82.22	
G53	80.28	81.41	87.31	80.66	91.23	88.68	81.84	90.0	80.28	
G54	78.25	79.34	85.33	78.91	88.92	86.56	80.14	87.5	78.25	
G55	76.46	77.26	83.21	76.98	86.65	84.15	77.59	85.76	76.46	
G56	74.48	75.37	81.04	74.76	84.34	82.08	75.56	83.26	74.48	
G57	72.4	73.53	79.1	72.97	82.36	79.9	73.39	81.23	72.4	
G58	69.52	71.55	77.12	70.46	80.0	77.36	71.03	78.82	69.52	
G59	66.64	69.14	74.67	67.63	77.83	74.1	67.82	76.46	66.64	
G60	63.57	66.45	71.98	64.23	74.81	71.13	64.94	73.06	63.57	
G61	60.79	63.43	68.77	61.45	71.64	68.01	61.83	70.37	60.79	
G62	57.96	60.79	65.98	58.62	68.44	64.99	59.14	67.16	57.96	
G63	55.5	58.0	63.24	55.93	65.56	62.06	56.26	64.28	55.5	
G64	52.62	55.41	60.6	53.1	62.58	59.23	53.47	61.4	52.62	
G65	49.89	52.67	57.58	50.41	59.8	56.49	50.6	59.0	49.89	
G66	46.96	50.08	55.03	47.48	57.01	53.8	47.72	55.79	46.96	
G67	44.55	47.1	52.48	45.03	54.23	50.88	45.07	53.0	44.55	
G68	41.96	44.88	49.89	42.62	51.54	47.95	42.95	50.31	41.96	
G69	39.5	42.38	46.87	40.02	48.52	45.45	40.16	47.57	39.5	
G70	37.14	40.02	44.46	37.8	45.92	43.0	37.99	44.84	37.14	
G71	34.74	37.57	42.01	35.44	43.28	40.31	35.49	42.29	34.74	
G72	32.47	35.4	39.46	33.18	40.83	37.99	33.09	39.74	32.47	
G73	30.21	33.04	37.1	31.01	38.56	35.68	31.01	37.71	30.21	

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:

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

[illegible]

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
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Temperature: 25
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