

Report No.:

Test Time: 2025/8/1 17:34:50

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP104SCT095H78-2F-EB-38°
Lamp Type:
Luminous Width: 90 mm
Luminous Length: 185 mm
Luminous Height: 70 mm

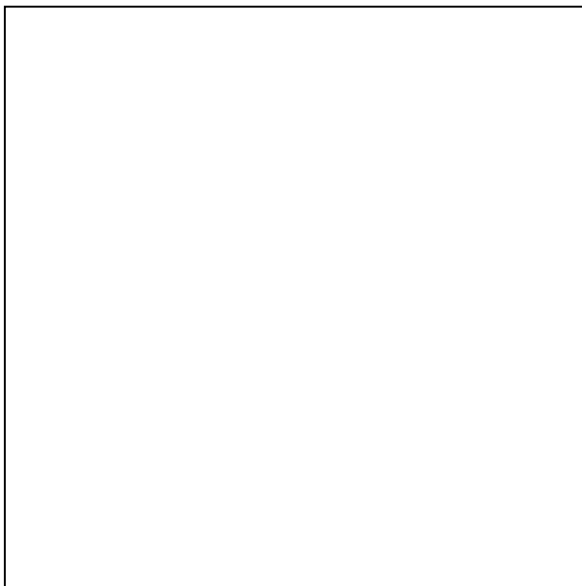
Voltage(V): 219.80 V
Current(A): 0.1020 A
Power(W): 20.59 W
Power Factor: 0.9160
Lamp Luminous Flux: 1401.69

Photometric Results

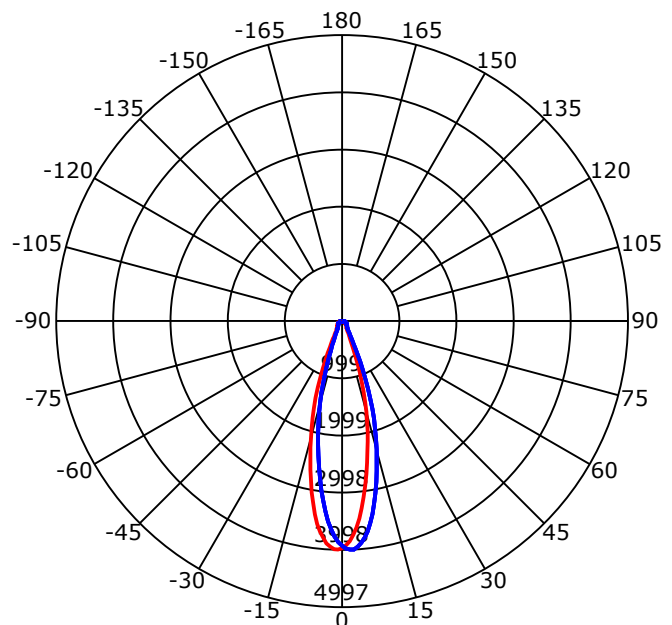
CIE Class: Direct
Luminaire Luminous Flux: 1401.685 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 68.07 lm/W
Beam Angle(50%) C0-180,C90-270: 28.6,29.0
Field Angle(10%) C0-180,C90-270: 49.7,50.4
S/MH C0-180,C90-270: 0.499,0.499

Max. Intensity: 3997.86 cd
Max.Intensity Angle: C=90 Gamma=3
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 3968.83 cd
Effective Luminous Flux: 978.05 lm
ERP(ϕ use)(120deg): 1304.36 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 28.6 deg,29.0 deg

C0-180 — C90-270 —

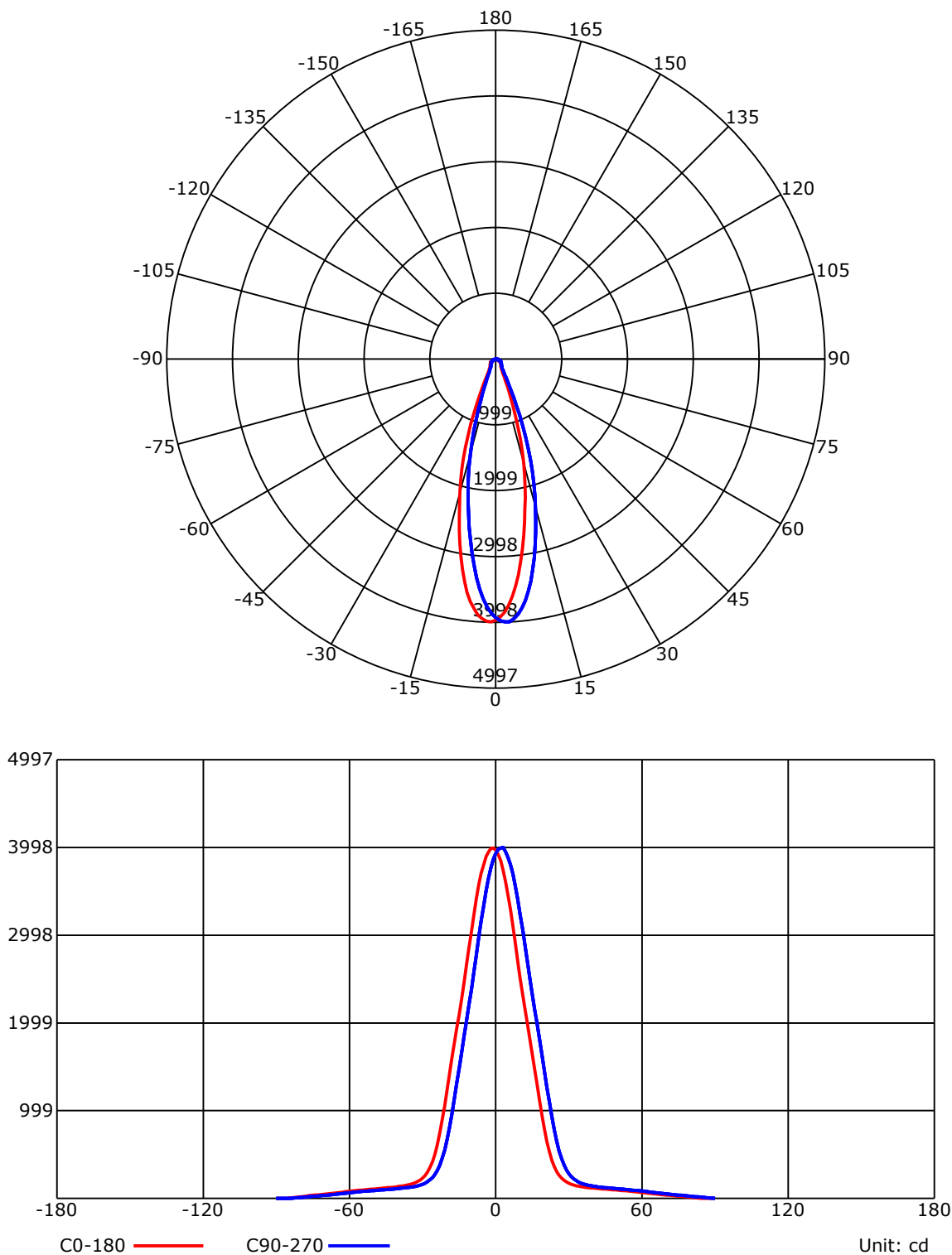
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/8/1 17:34:50

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



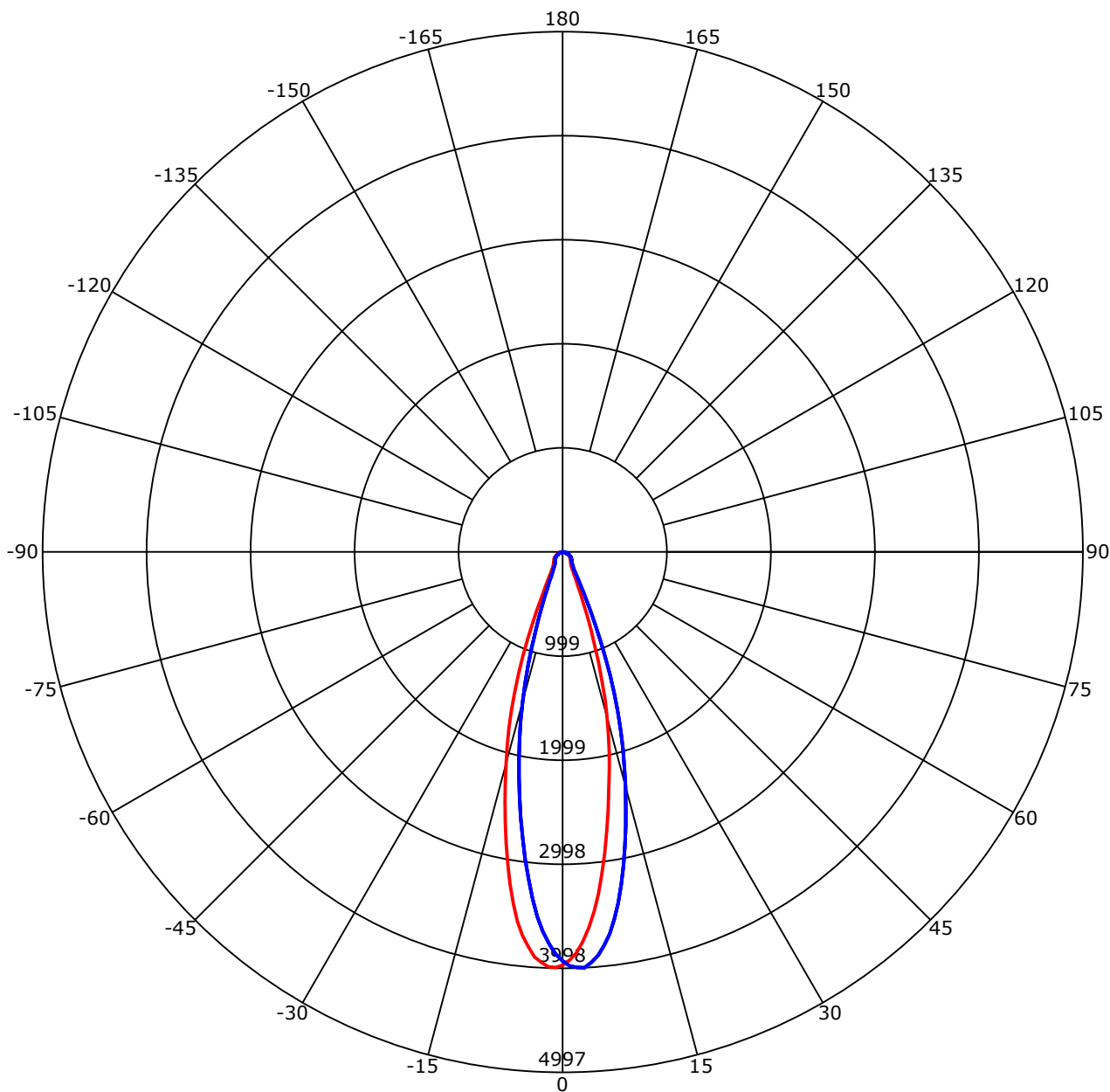
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/8/1 17:34:50

G Range: 0 - 90 Deg
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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: 2025/8/1 17:34:50

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

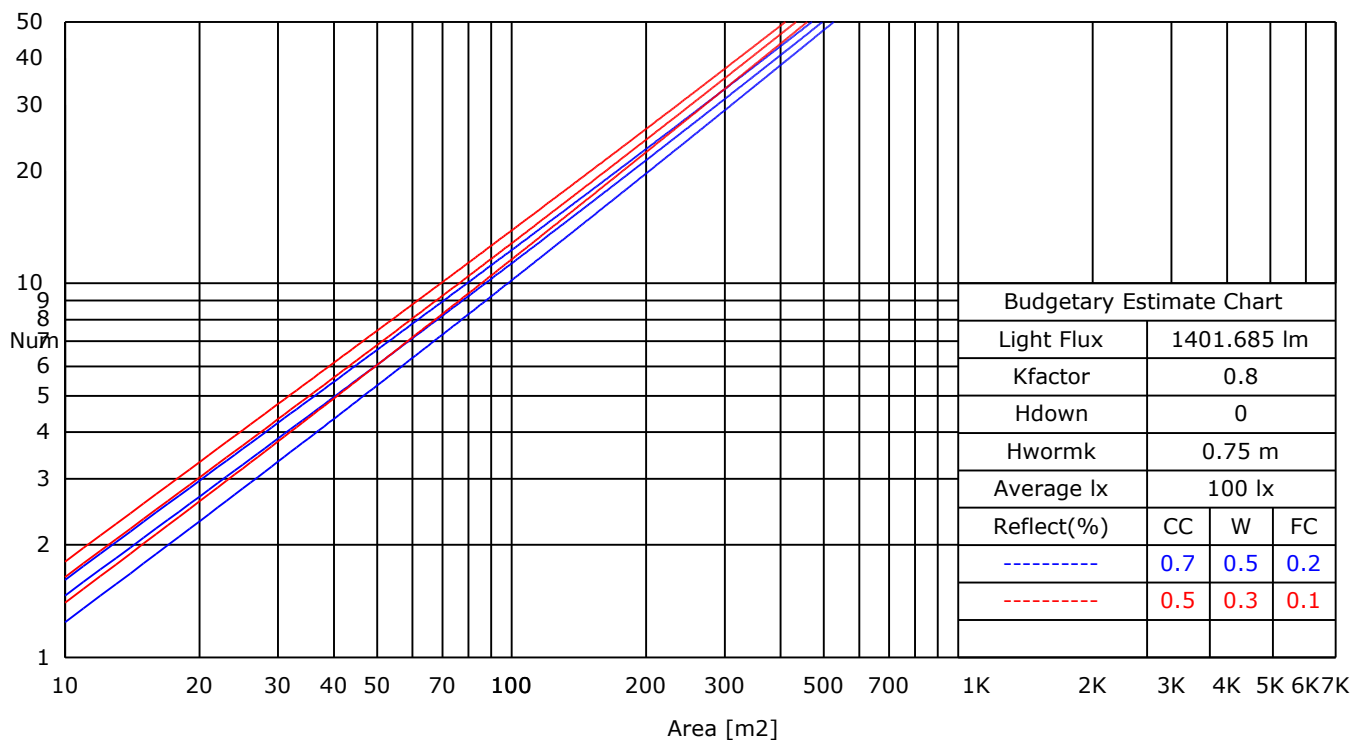
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UTILIZATION FACTORS TABLE

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	0.94	0.91	0.89	0.93	0.90	0.87	0.90	0.87	0.84	0.86	0.83	0.80	0.81	0.77	0.74	0.69
2	0.88	0.85	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	0.83	0.81	0.79	0.83	0.80	0.78	0.81	0.77	0.74	0.78	0.74	0.71	0.75	0.70	0.66	0.62
4	0.79	0.77	0.76	0.79	0.76	0.74	0.77	0.74	0.71	0.75	0.71	0.67	0.72	0.67	0.63	0.59
5	0.76	0.74	0.72	0.76	0.73	0.71	0.74	0.70	0.68	0.72	0.68	0.64	0.69	0.65	0.61	0.57
6	0.73	0.71	0.70	0.73	0.70	0.68	0.71	0.68	0.65	0.70	0.65	0.62	0.67	0.62	0.58	0.55
7	0.71	0.69	0.68	0.70	0.68	0.66	0.69	0.66	0.63	0.67	0.63	0.60	0.65	0.60	0.57	0.53
8	0.68	0.67	0.66	0.68	0.66	0.64	0.67	0.64	0.61	0.65	0.61	0.58	0.64	0.59	0.55	0.52
9	0.67	0.65	0.64	0.66	0.64	0.63	0.65	0.62	0.60	0.64	0.60	0.57	0.62	0.57	0.53	0.50
10	0.65	0.63	0.63	0.65	0.62	0.61	0.63	0.60	0.58	0.62	0.58	0.55	0.60	0.56	0.52	0.49

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



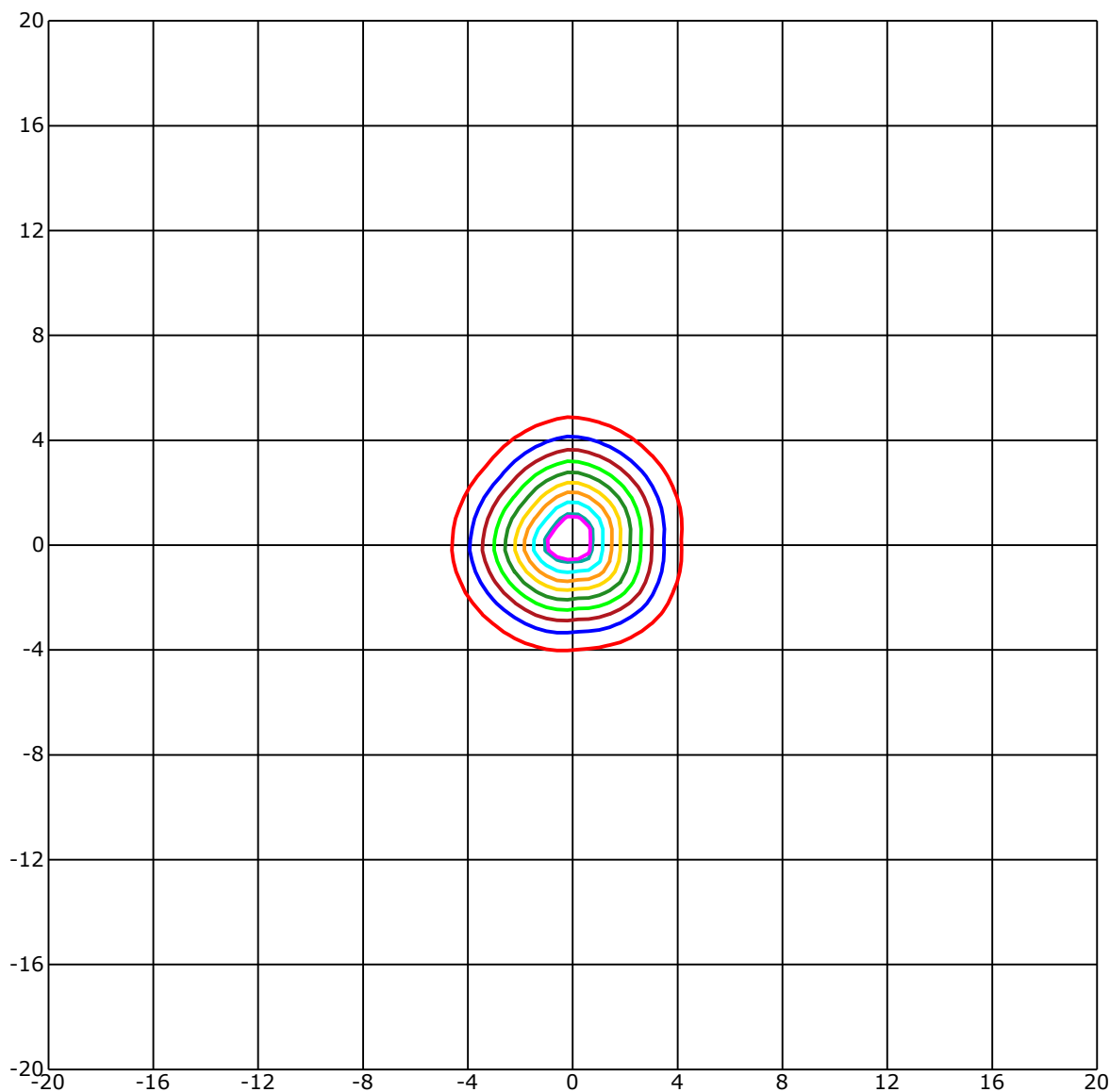
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C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/8/1 17:34:50

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 17:34:50

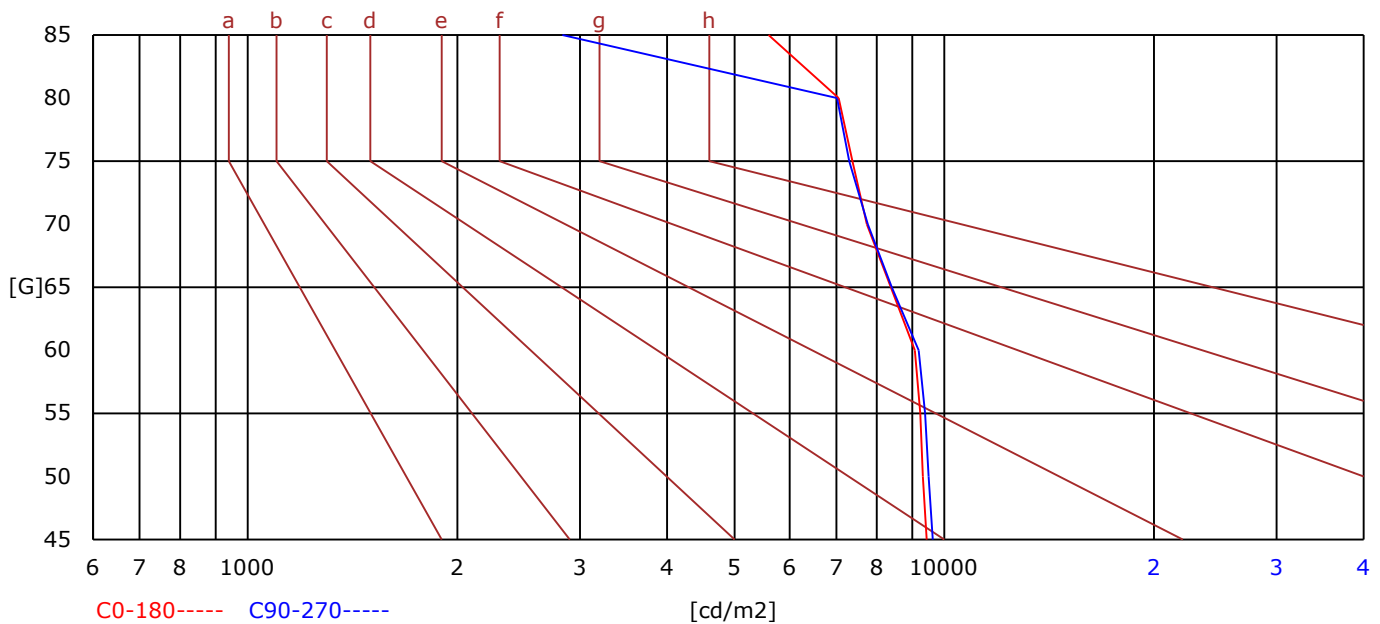
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	9437	9318	9242	9077	8384	7741	7382	7052	5594
C90	9625	9499	9390	9190	8411	7766	7305	7019	2830
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



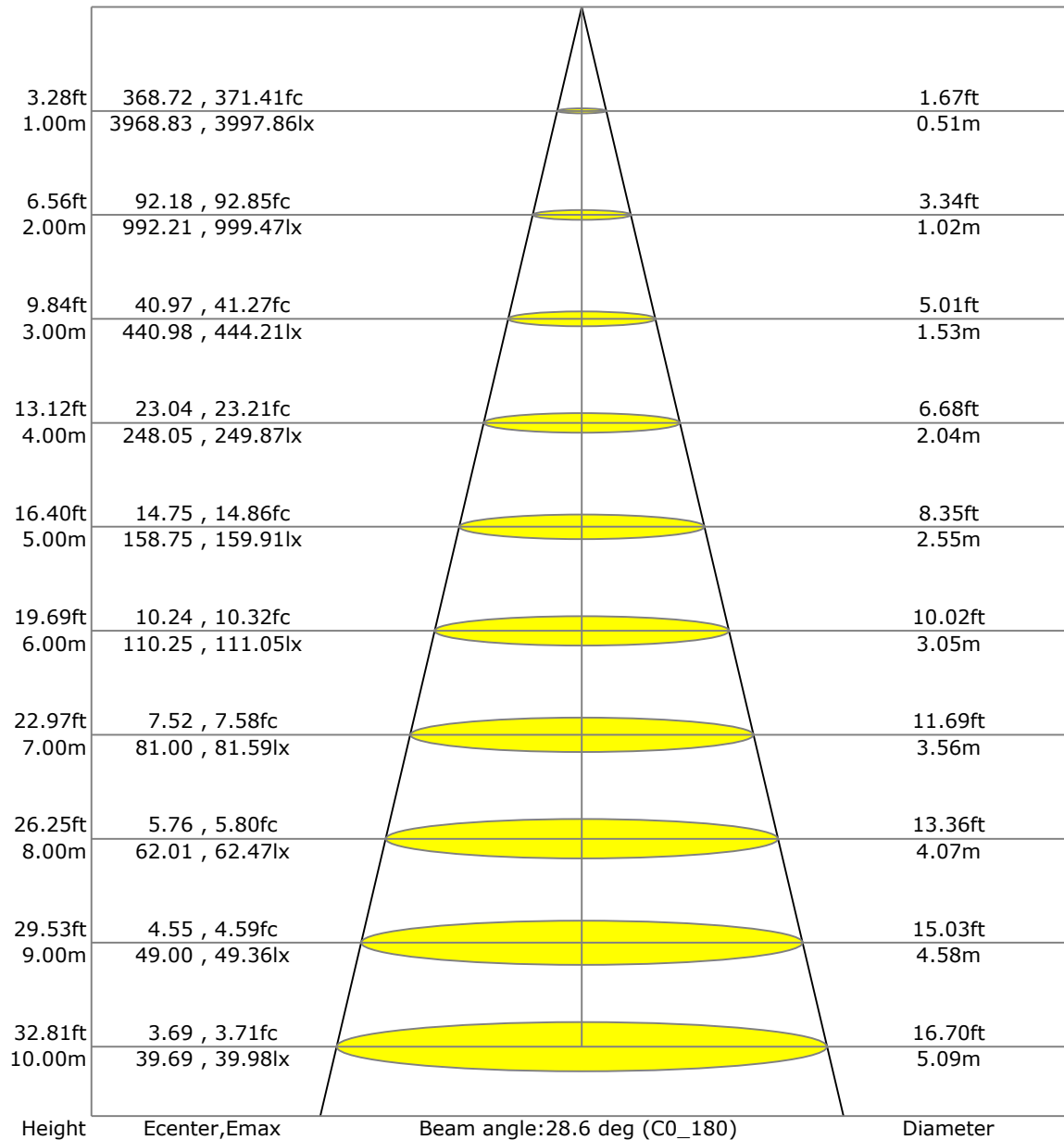
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Temperature: 25
Operators: QC01
Test Date: 2025/8/1 17:34:50

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 17:34:50

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	11.87	11.93	12.07	12.12	12.36	12.20	12.26	12.40	12.45	12.69
3H	12.06	12.12	12.26	12.31	12.56	12.33	12.40	12.54	12.59	12.83
4H	12.09	12.15	12.30	12.35	12.59	12.35	12.41	12.56	12.60	12.85
6H	12.08	12.14	12.30	12.35	12.60	12.33	12.40	12.55	12.60	12.85
8H	12.07	12.13	12.29	12.34	12.59	12.32	12.39	12.54	12.59	12.84
12H	12.06	12.12	12.28	12.33	12.59	12.31	12.38	12.54	12.58	12.84
4H 2H	13.78	13.84	13.99	14.04	14.29	14.51	14.57	14.72	14.77	15.01
3H	14.14	14.20	14.36	14.41	14.66	14.80	14.87	15.03	15.07	15.33
4H	14.23	14.30	14.46	14.51	14.77	14.87	14.93	15.10	15.14	15.40
6H	14.27	14.33	14.51	14.55	14.82	14.88	14.94	15.12	15.16	15.42
8H	14.27	14.33	14.51	14.56	14.82	14.87	14.93	15.11	15.15	15.42
12H	14.26	14.32	14.51	14.55	14.82	14.85	14.91	15.10	15.14	15.41
8H 4H	14.08	14.15	14.30	14.35	14.60	15.14	15.21	15.36	15.41	15.66
6H	14.80	14.86	15.06	15.10	15.37	15.80	15.85	16.05	16.09	16.37
8H	14.83	14.88	15.09	15.13	15.40	15.80	15.86	16.07	16.10	16.38
12H	14.83	14.88	15.10	15.13	15.42	15.79	15.84	16.06	16.10	16.38
12H 4H	14.70	14.76	14.95	14.99	15.26	15.90	15.96	16.15	16.19	16.46
6H	14.82	14.87	15.08	15.12	15.40	16.01	16.07	16.28	16.31	16.59

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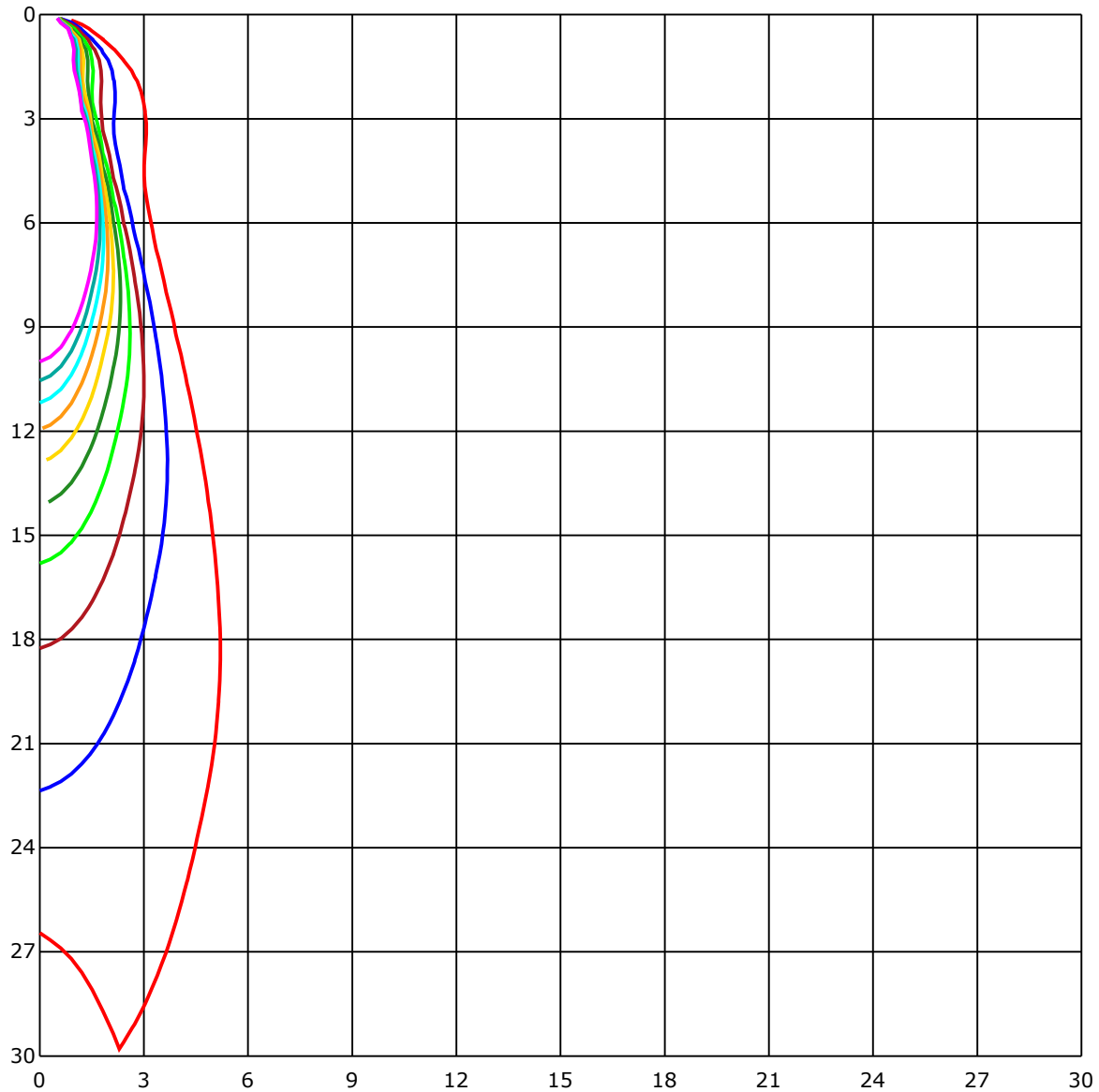
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Humidity: 60
Test Distance: 6.87 m
Remarks:

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SPACE ISOLX DIAGRAM



Unit of illumination:lx

39.689
35.72
31.751
27.782
23.813

19.844
15.876
11.907
7.938
3.969

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G Interval: 1.0 Deg
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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	3968.83	3966.81	3927.92	3992.62	3968.83	3966.81	3927.92	3992.62	3968.83	
G1	3917.53	3976.06	3977.24	3993.24	3991.16	3930.37	3862.55	3964.78	3917.53	
G2	3849.62	3949.67	3992.29	3961.66	3987.15	3868.12	3766.08	3909.93	3849.62	
G3	3742.2	3905.87	3997.86	3912.58	3946.46	3790.57	3647.57	3827.24	3742.2	
G4	3614.81	3835.74	3951.8	3832.53	3896.34	3674.28	3505.74	3724.59	3614.81	
G5	3462.55	3737.15	3888.79	3728.22	3801.62	3547.89	3336.49	3592.72	3462.55	
G6	3290.95	3612.31	3801.85	3602.92	3700.61	3387.51	3153.74	3437.78	3290.95	
G7	3103.24	3465.34	3698.4	3446.93	3570.49	3218.36	2971.28	3255.55	3103.24	
G8	2912.76	3299.16	3560.58	3275.94	3412.19	3032.92	2768.57	3071.01	2912.76	
G9	2707.83	3126.18	3412.48	3093.05	3231.9	2846.49	2581.39	2871.27	2707.83	
G10	2513.0	2940.27	3236.24	2898.08	3044.2	2645.43	2382.5	2678.66	2513.0	
G11	2322.51	2748.61	3063.88	2699.95	2849.56	2456.93	2200.93	2482.18	2322.51	
G12	2151.71	2557.74	2875.66	2512.06	2659.78	2271.49	2018.8	2306.18	2151.71	
G13	1985.67	2378.58	2693.15	2335.44	2459.76	2098.56	1848.89	2133.96	1985.67	
G14	1814.53	2193.76	2505.26	2154.87	2277.06	1921.24	1666.1	1967.88	1814.53	
G15	1643.54	2021.54	2327.75	1979.11	2101.06	1745.91	1489.11	1800.37	1643.54	
G16	1472.21	1853.19	2153.41	1813.92	1933.04	1569.34	1310.23	1627.11	1472.21	
G17	1285.36	1682.1	1978.02	1643.44	1764.36	1389.24	1129.85	1449.28	1285.36	
G18	1107.0	1502.37	1805.9	1459.28	1597.66	1208.9	959.18	1269.6	1107.0	
G19	940.63	1323.87	1630.7	1277.71	1418.46	1035.12	807.59	1087.94	940.63	
G20	788.09	1146.74	1446.82	1096.38	1236.18	876.92	670.29	921.33	788.09	
G21	645.94	978.77	1267.38	928.74	1056.55	730.04	551.92	768.51	645.94	
G22	529.36	821.93	1094.92	772.14	890.51	602.42	454.08	631.59	529.36	
G23	434.16	683.6	930.86	635.22	740.57	498.12	376.91	520.35	434.16	
G24	362.71	564.62	782.29	522.94	611.06	413.44	316.74	430.58	362.71	
G25	306.83	466.12	651.93	431.19	501.28	349.26	272.0	361.29	306.83	
G26	263.97	387.58	541.07	359.83	416.28	298.99	236.69	307.91	263.97	
G27	230.79	325.8	450.59	305.13	349.82	261.0	210.83	267.61	230.79	
G28	206.91	278.74	380.88	264.44	299.84	230.51	190.06	236.83	206.91	
G29	186.99	242.88	325.47	232.07	261.33	208.37	174.3	212.72	186.99	
G30	172.22	214.7	282.14	208.99	232.78	190.63	161.27	194.59	172.22	
G31	160.19	193.84	247.93	190.16	210.22	176.71	151.64	179.63	160.19	
G32	151.27	177.65	221.54	176.0	192.89	165.52	143.43	167.83	151.27	
G33	143.71	164.91	202.14	164.58	179.82	156.65	137.15	158.39	143.71	
G34	138.33	155.04	186.24	155.51	168.78	149.38	131.63	150.79	138.33	
G35	132.91	147.35	174.44	148.1	160.33	143.62	127.53	144.56	132.91	
G36	129.27	141.02	164.25	142.39	153.81	138.52	123.66	139.37	129.27	

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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 DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	125.36	135.74	156.55	137.39	148.06	134.46	120.59	135.03	125.36	
G38	123.0	131.11	149.8	133.28	143.24	130.78	117.19	131.4	123.0	
G39	119.74	127.15	144.38	129.65	139.14	127.81	114.88	127.62	119.74	
G40	117.19	124.08	139.51	126.91	135.6	124.51	112.14	124.84	117.19	
G41	114.41	121.48	135.74	123.61	132.2	121.53	110.11	121.67	114.41	
G42	112.0	118.37	132.1	120.97	129.18	118.56	107.09	119.03	112.0	
G43	109.5	116.06	128.89	118.37	126.11	116.2	105.01	116.15	109.5	
G44	107.37	113.6	125.97	115.82	123.61	113.46	102.7	113.93	107.37	
G45	105.25	111.1	123.04	113.32	120.59	111.1	100.62	111.01	105.25	
G46	102.75	108.65	120.35	111.05	118.18	108.55	98.5	108.98	102.75	
G47	100.39	106.24	117.9	108.55	115.25	106.33	96.05	106.38	100.39	
G48	98.41	103.93	115.16	106.85	112.9	103.64	93.97	103.97	98.41	
G49	96.19	101.95	112.56	103.97	110.39	101.28	91.94	101.66	96.19	
G50	93.78	99.73	110.35	101.66	107.8	98.97	89.58	99.68	93.78	
G51	91.66	97.37	107.75	99.49	105.53	97.08	87.74	97.08	91.66	
G52	89.82	95.1	105.11	97.41	103.08	94.3	85.62	95.01	89.82	
G53	86.98	92.84	102.75	94.44	100.53	92.18	83.35	92.46	86.98	
G54	84.81	90.43	100.39	92.32	98.22	89.63	80.9	90.29	84.81	
G55	82.5	88.26	97.84	89.67	95.62	87.74	78.63	87.79	82.5	
G56	80.33	86.42	95.53	87.22	93.26	85.33	76.27	85.43	80.33	
G57	77.5	83.68	92.88	84.77	90.62	82.5	73.25	82.97	77.5	
G58	74.19	81.41	90.52	82.41	88.21	79.43	69.57	80.09	74.19	
G59	70.7	78.68	88.02	79.76	85.76	76.03	66.55	76.32	70.7	
G60	67.4	75.56	85.24	76.51	82.26	72.26	63.06	72.82	67.4	
G61	63.95	72.12	82.26	72.49	78.63	68.95	60.27	69.47	63.95	
G62	60.74	68.62	78.49	69.05	75.04	65.75	56.97	66.45	60.74	
G63	57.67	65.18	74.71	65.7	71.6	62.68	54.09	63.06	57.67	
G64	55.08	61.88	71.27	62.35	68.44	59.7	51.35	60.13	55.08	
G65	51.87	59.0	67.77	59.18	64.9	56.68	48.14	57.25	51.87	
G66	48.57	55.79	64.66	56.07	61.88	53.95	45.26	54.09	48.57	
G67	45.88	52.86	61.4	53.0	58.81	51.26	42.76	51.16	45.88	
G68	43.28	50.08	58.19	50.5	55.65	48.0	40.26	48.19	43.28	
G69	40.68	46.63	55.41	46.82	52.77	45.21	37.66	45.5	40.68	
G70	38.28	44.08	52.25	44.22	49.93	42.62	35.44	42.81	38.28	
G71	35.82	41.49	49.08	41.63	46.72	40.07	33.09	40.4	35.82	
G72	33.42	38.98	46.25	39.17	44.03	37.57	30.63	38.04	33.42	
G73	31.2	36.67	43.75	36.67	41.34	35.3	28.41	35.44	31.2	

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
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/8/1 17:34:50

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