

Report No.:

Test Time: 2025/8/1 16:57:41

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP104SCT095H98-2F-EB-45°
Lamp Type:
Luminous Width: 90 mm
Luminous Length: 185 mm
Luminous Height: 70 mm

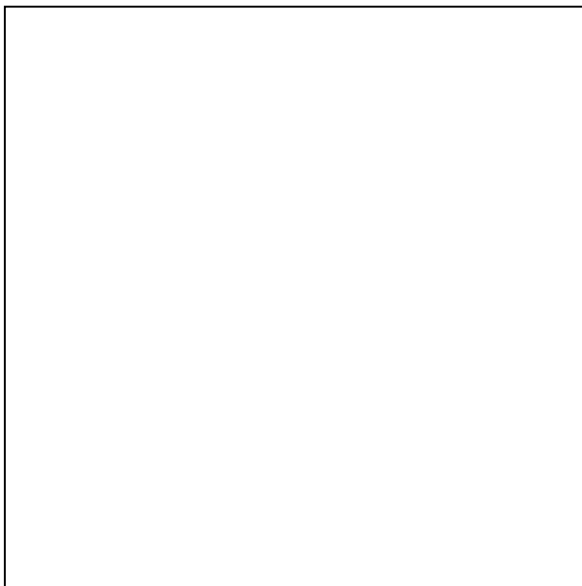
Voltage(V): 219.80 V
Current(A): 0.1380 A
Power(W): 28.88 W
Power Factor: 0.9490
Lamp Luminous Flux: 2029.80

Photometric Results

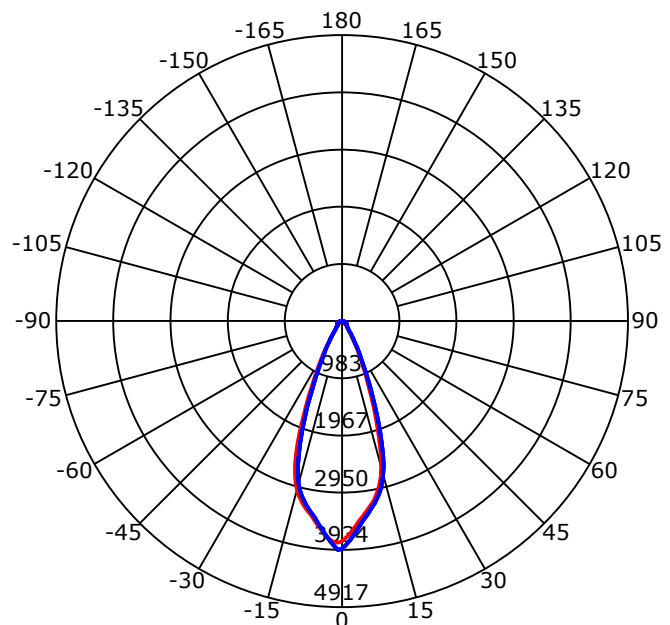
CIE Class: Direct
Luminaire Luminous Flux: 2029.8 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 70.28 lm/W
Beam Angle(50%) C0-180,C90-270: 40.0,39.4
Field Angle(10%) C0-180,C90-270: 64.4,64.0
S/MH C0-180,C90-270: 0.689,0.689

Max. Intensity: 3933.58 cd
Max.Intensity Angle: C=270 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 3783.54 cd
Effective Luminous Flux: 1620.83 lm
ERP(ϕ use)(120deg): 1923.38 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 40.0 deg,39.4 deg

C0-180 — C90-270

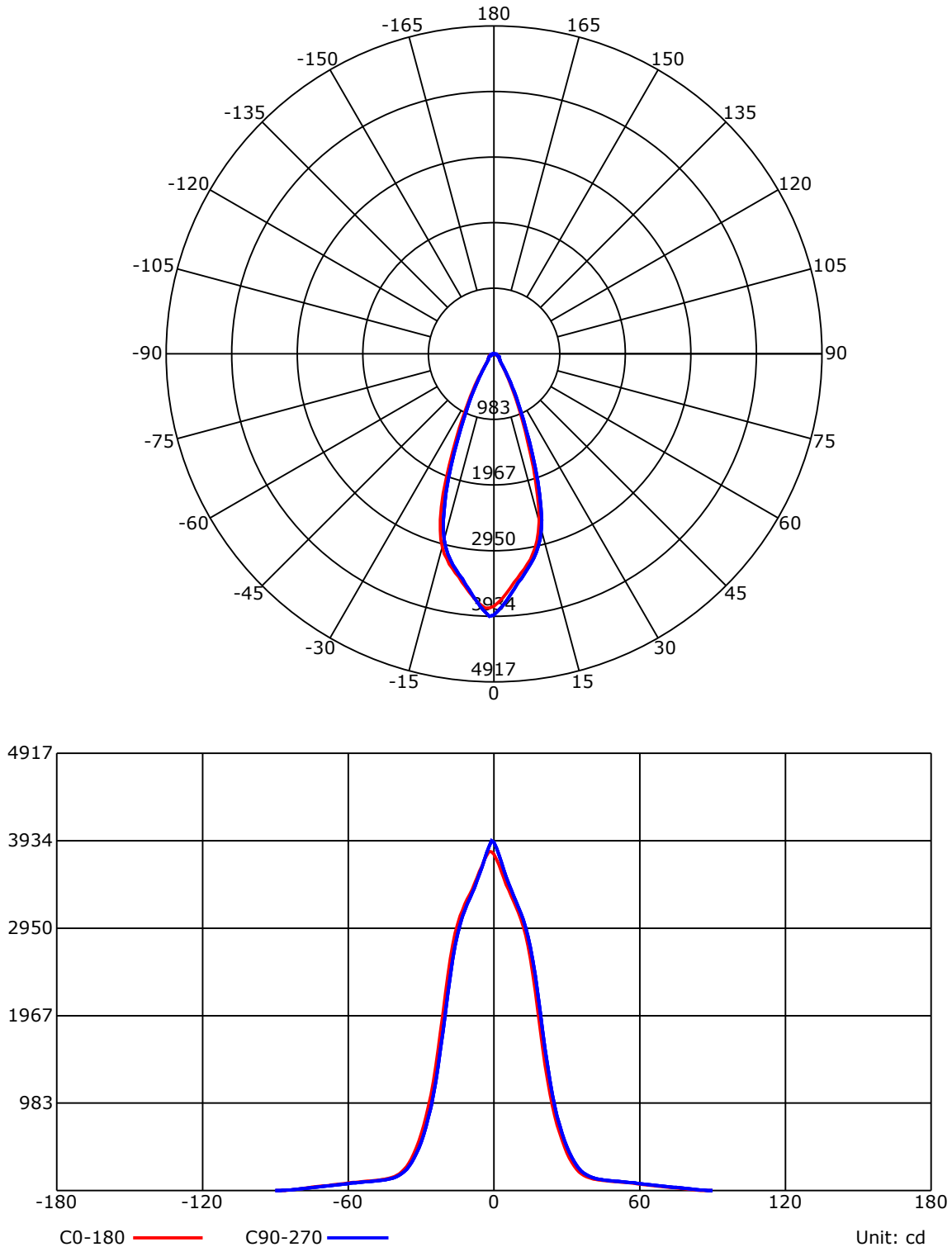
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/8/1 16:57:41

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 16:57:41

Luminous Intensity Distribution Curve



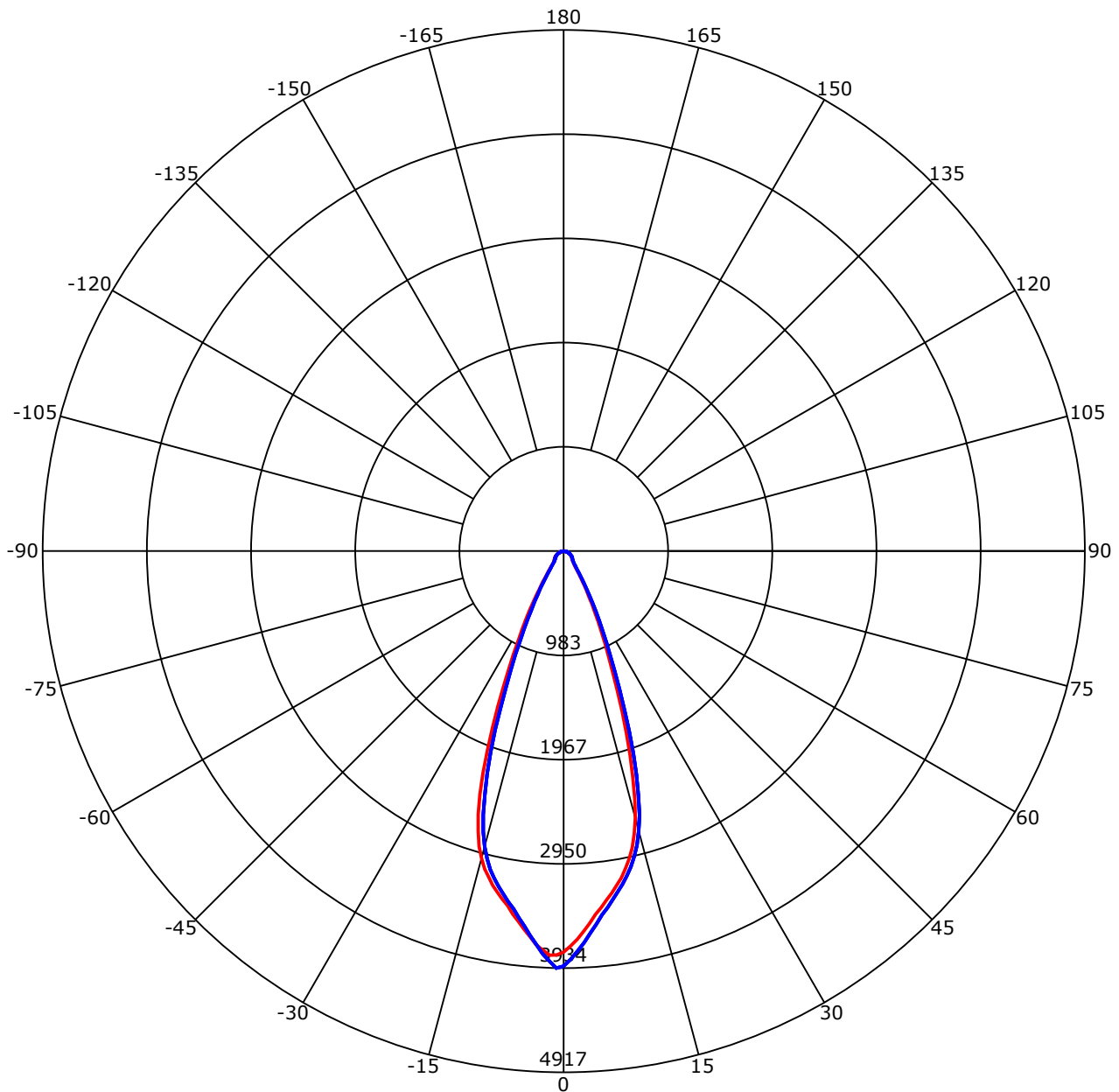
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/8/1 16:57:41

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 16:57:41

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

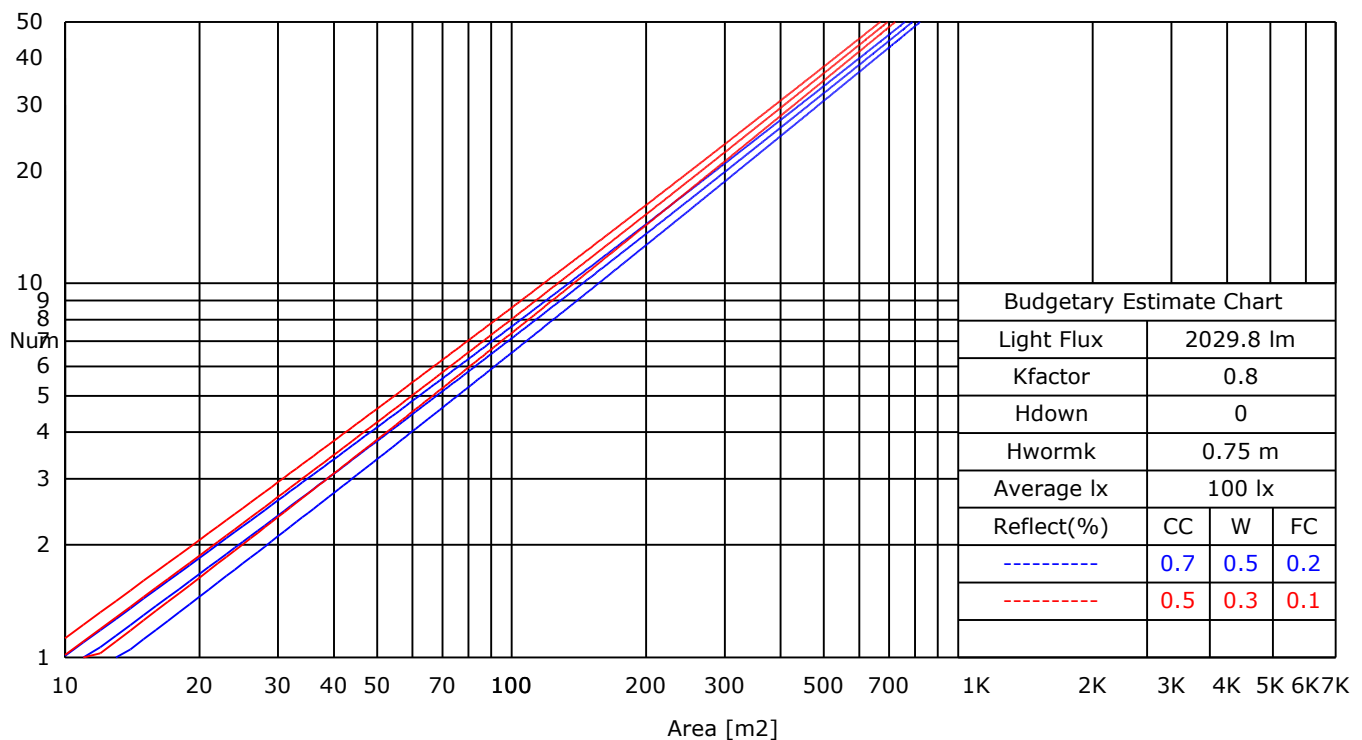
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UTILIZATION FACTORS TABLE

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	1.01	0.98	0.97	1.00	0.97	0.95	0.96	0.94	0.91	0.92	0.89	0.86	0.86	0.83	0.80	0.75
2	0.95	0.93	0.92	0.94	0.92	0.90	0.92	0.89	0.86	0.88	0.85	0.82	0.83	0.79	0.76	0.72
3	0.91	0.89	0.88	0.90	0.88	0.86	0.88	0.85	0.82	0.84	0.81	0.78	0.80	0.76	0.73	0.69
4	0.87	0.85	0.84	0.86	0.84	0.82	0.84	0.81	0.79	0.81	0.77	0.75	0.77	0.73	0.70	0.66
5	0.84	0.82	0.81	0.83	0.81	0.79	0.81	0.78	0.76	0.78	0.75	0.72	0.75	0.71	0.67	0.64
6	0.81	0.79	0.78	0.80	0.78	0.77	0.78	0.75	0.73	0.76	0.72	0.69	0.73	0.69	0.65	0.62
7	0.79	0.77	0.76	0.78	0.76	0.74	0.76	0.73	0.71	0.74	0.70	0.67	0.71	0.67	0.63	0.60
8	0.76	0.75	0.74	0.76	0.74	0.72	0.74	0.71	0.69	0.72	0.68	0.65	0.69	0.65	0.62	0.58
9	0.74	0.73	0.72	0.74	0.72	0.70	0.72	0.69	0.67	0.70	0.66	0.64	0.68	0.63	0.60	0.57
10	0.73	0.71	0.71	0.72	0.70	0.69	0.70	0.67	0.65	0.68	0.65	0.62	0.66	0.62	0.59	0.55

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



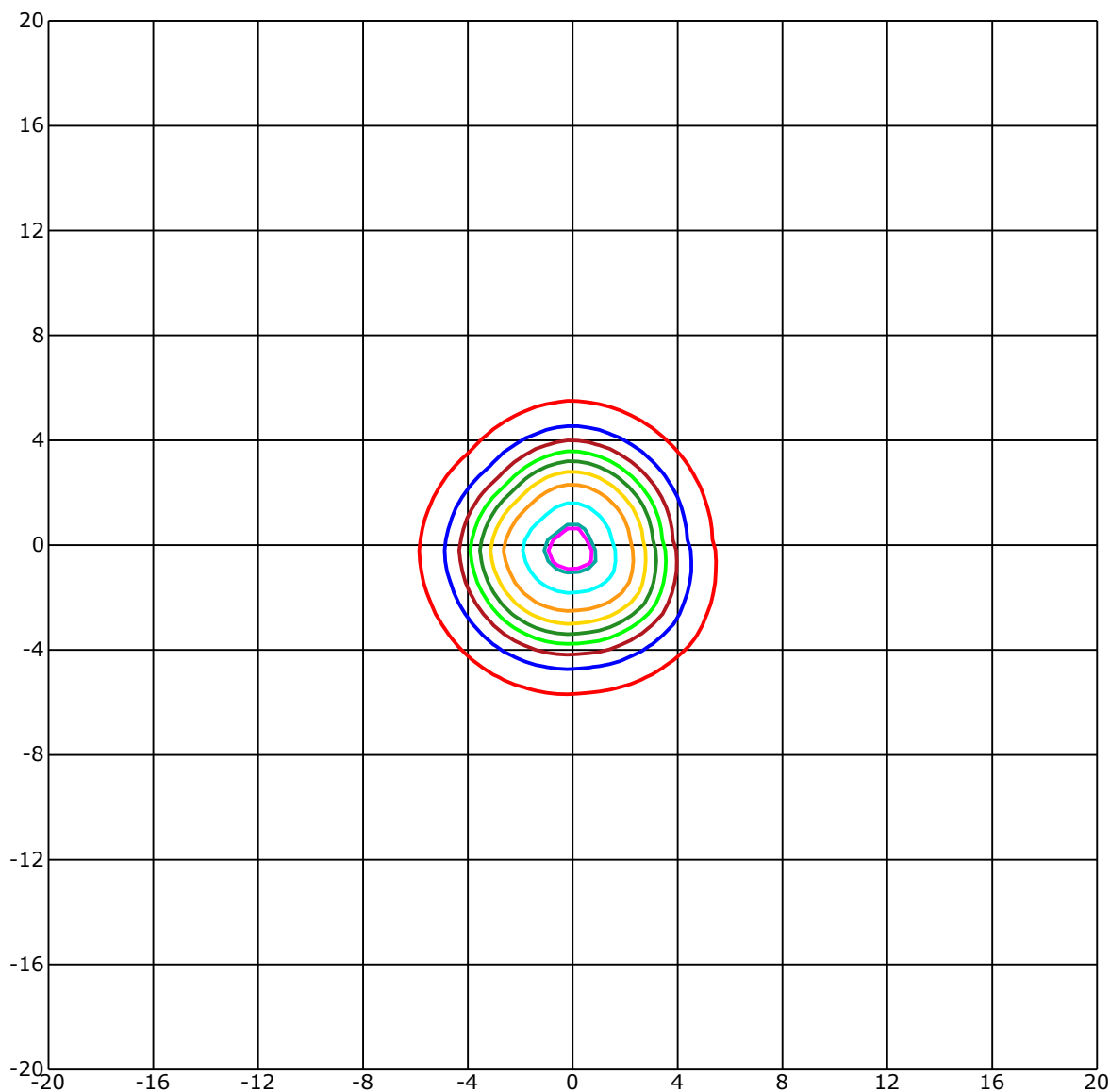
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Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/8/1 16:57:41

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 16:57:41

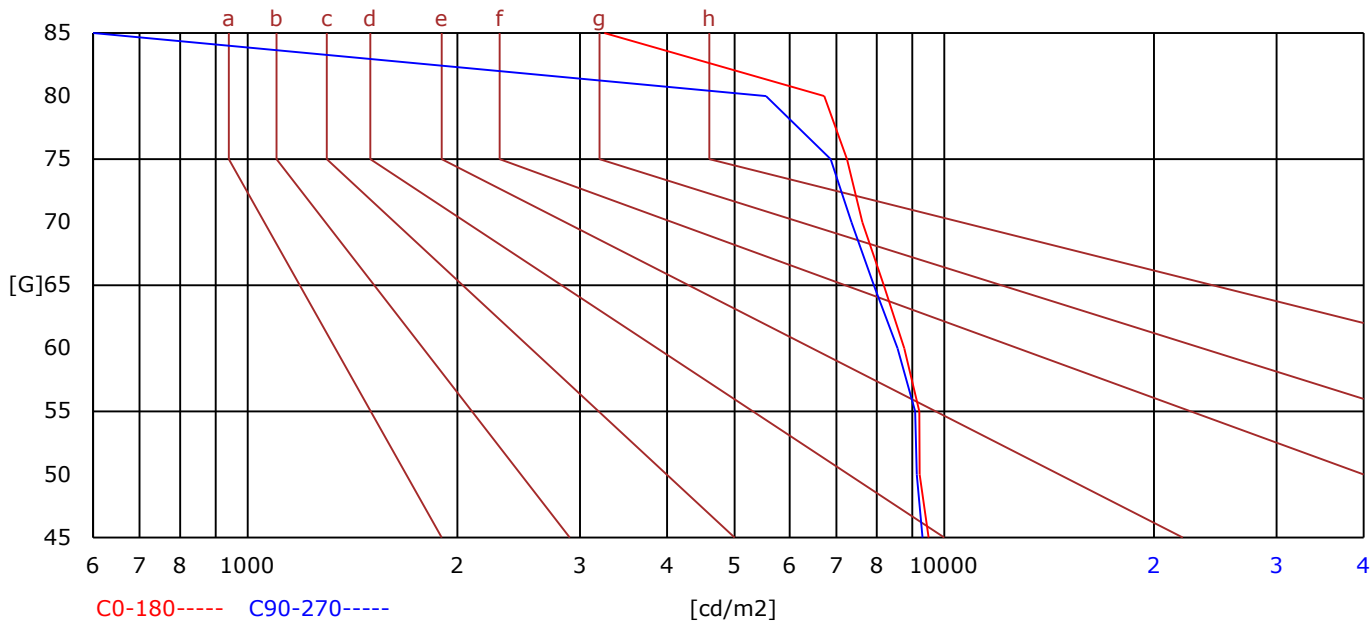
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	9497	9221	9207	8765	8190	7625	7250	6726	3252
C90	9308	9129	9079	8566	7928	7360	6867	5550	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



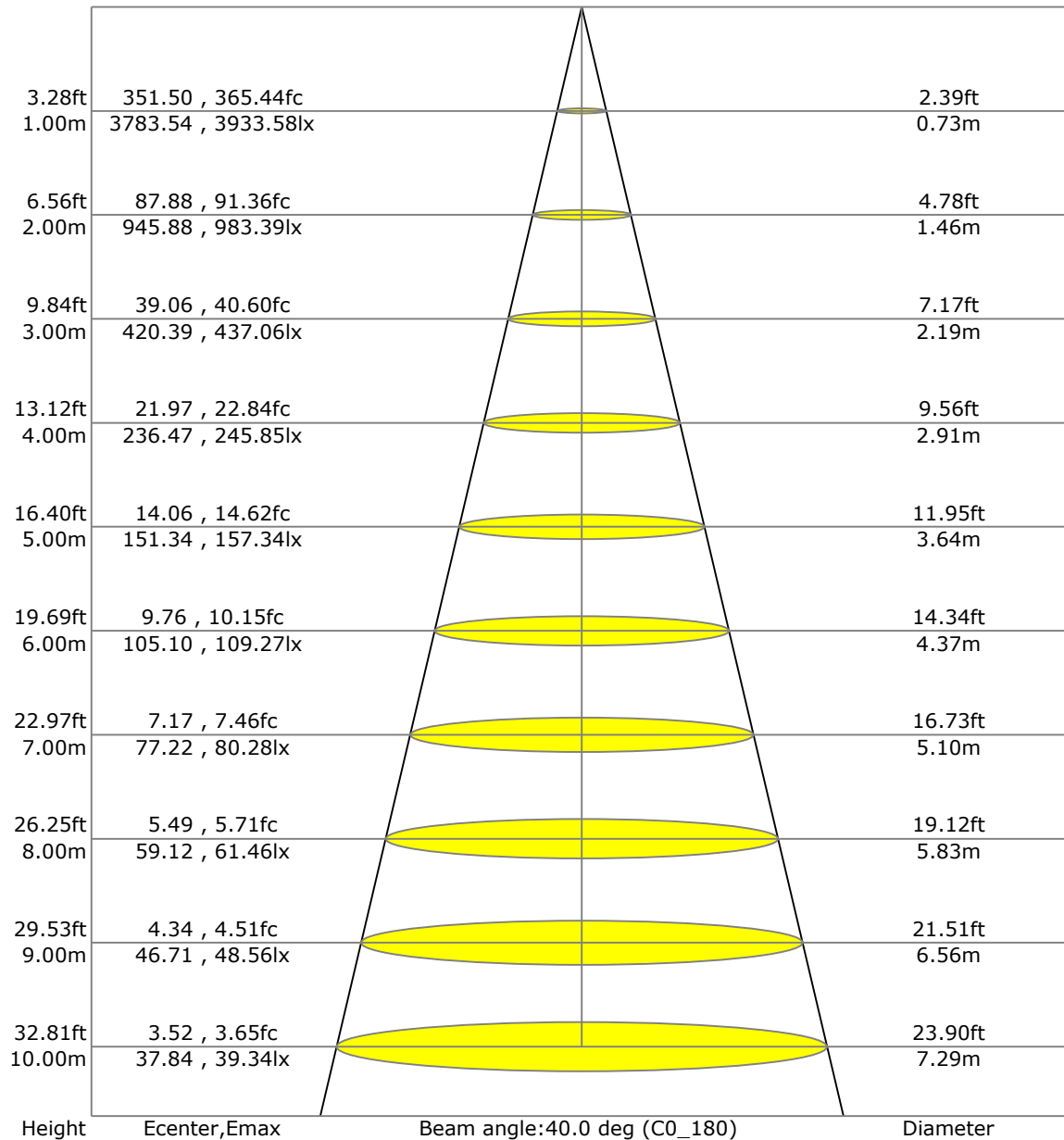
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Temperature: 25
Operators: QC01
Test Date: 2025/8/1 16:57:41

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 16:57:41

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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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	9.83	9.88	10.03	10.07	10.31	9.93	9.98	10.13	10.17	10.41
3H	9.98	10.03	10.18	10.22	10.47	10.06	10.11	10.27	10.31	10.55
4H	10.00	10.05	10.21	10.25	10.50	10.07	10.13	10.29	10.33	10.57
6H	9.99	10.05	10.21	10.25	10.50	10.07	10.12	10.28	10.32	10.57
8H	9.98	10.04	10.20	10.24	10.49	10.06	10.11	10.27	10.31	10.57
12H	9.97	10.03	10.19	10.23	10.49	10.05	10.10	10.27	10.31	10.56
4H 2H	11.72	11.77	11.93	11.97	12.22	11.97	12.03	12.18	12.22	12.47
3H	12.03	12.09	12.26	12.30	12.55	12.27	12.32	12.49	12.53	12.78
4H	12.11	12.17	12.34	12.38	12.64	12.34	12.39	12.56	12.60	12.86
6H	12.14	12.19	12.38	12.41	12.67	12.35	12.40	12.59	12.62	12.89
8H	12.13	12.18	12.38	12.41	12.68	12.34	12.39	12.58	12.62	12.89
12H	12.12	12.17	12.37	12.40	12.67	12.33	12.38	12.58	12.61	12.88
8H 4H	12.08	12.13	12.30	12.34	12.59	12.48	12.54	12.70	12.74	12.99
6H	12.70	12.75	12.96	12.99	13.26	13.10	13.14	13.35	13.38	13.66
8H	12.71	12.76	12.97	13.00	13.28	13.10	13.14	13.36	13.39	13.67
12H	12.70	12.74	12.97	13.00	13.28	13.08	13.13	13.35	13.38	13.66
12H 4H	12.63	12.68	12.88	12.91	13.18	13.11	13.16	13.36	13.39	13.66
6H	12.71	12.76	12.97	13.01	13.28	13.19	13.24	13.45	13.48	13.76

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Humidity: 60
Test Distance: 6.87 m
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ZONAL LUMINOUS FLUX TABLE

[illegible]

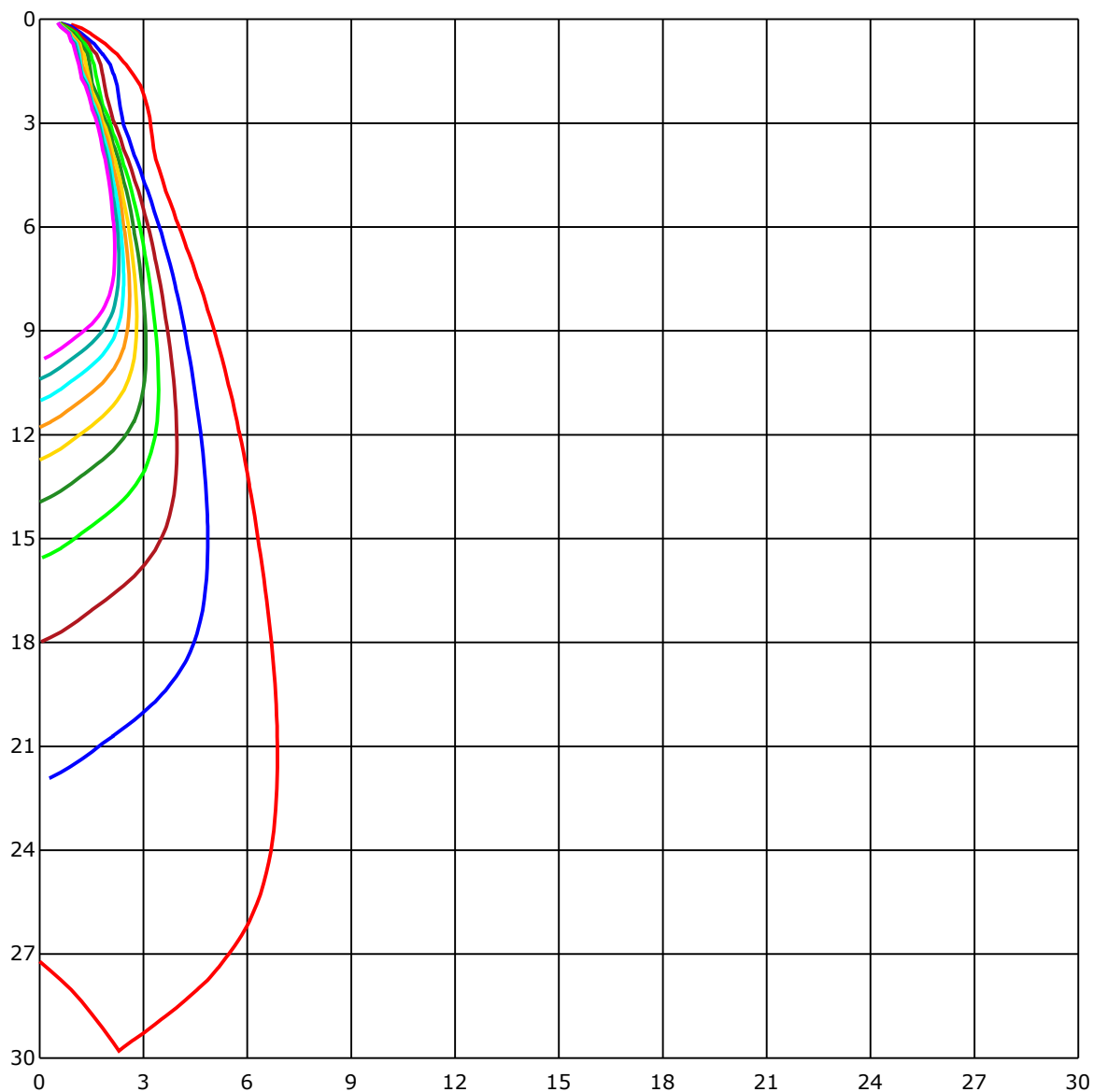
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SPACE ISOLX DIAGRAM



38.924

35.031

31.139

27.247

23.354

19.462

15.569

11.677

7.785

3.892

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C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/8/1 16:57:41

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	3783.54	3872.88	3914.89	3812.9	3783.54	3872.88	3914.89	3812.9	3783.54	
G1	3724.17	3800.15	3849.38	3761.26	3808.88	3923.38	3933.58	3846.26	3724.17	
G2	3663.99	3712.41	3775.42	3688.58	3814.03	3895.16	3870.9	3835.65	3663.99	
G3	3590.36	3635.86	3696.32	3614.91	3769.76	3836.78	3802.7	3792.79	3590.36	
G4	3517.96	3555.15	3610.28	3541.14	3722.47	3765.7	3718.36	3742.67	3517.96	
G5	3440.23	3477.33	3530.71	3461.37	3652.05	3687.26	3637.98	3662.67	3440.23	
G6	3380.34	3393.32	3450.9	3394.07	3588.47	3600.09	3556.1	3595.32	3380.34	
G7	3315.39	3328.7	3387.98	3325.87	3519.05	3524.29	3484.08	3513.76	3315.39	
G8	3257.2	3260.74	3319.64	3270.04	3455.8	3448.39	3406.86	3455.43	3257.2	
G9	3192.16	3192.68	3255.12	3201.7	3386.8	3393.69	3348.05	3390.44	3192.16	
G10	3131.23	3125.47	3190.46	3139.35	3334.32	3324.5	3285.28	3335.78	3131.23	
G11	3049.96	3059.92	3119.2	3072.8	3279.62	3270.13	3223.74	3273.44	3049.96	
G12	2968.26	2969.39	3046.56	2989.26	3223.78	3204.86	3153.41	3220.34	2968.26	
G13	2871.27	2875.09	2958.59	2890.34	3152.66	3142.89	3083.0	3155.3	2871.27	
G14	2749.97	2750.21	2858.01	2765.55	3090.08	3068.27	2990.58	3082.01	2749.97	
G15	2604.18	2609.23	2734.59	2617.73	2999.51	2979.97	2886.23	2989.5	2604.18	
G16	2431.68	2444.85	2590.87	2450.09	2895.86	2866.46	2753.0	2885.34	2431.68	
G17	2230.67	2257.33	2411.48	2252.94	2763.19	2730.29	2597.81	2754.51	2230.67	
G18	2019.93	2052.31	2216.51	2040.32	2610.32	2565.86	2410.49	2600.97	2019.93	
G19	1814.63	1844.17	2015.31	1826.0	2426.68	2380.75	2220.8	2412.33	1814.63	
G20	1608.75	1639.48	1803.11	1618.05	2228.07	2176.06	2009.74	2207.59	1608.75	
G21	1415.15	1448.76	1600.21	1417.75	2010.21	1962.83	1799.34	1992.61	1415.15	
G22	1240.29	1273.33	1410.43	1241.09	1796.88	1751.76	1593.93	1779.84	1240.29	
G23	1087.65	1115.92	1236.84	1087.75	1592.33	1550.04	1399.15	1574.3	1087.65	
G24	956.54	981.37	1082.93	950.31	1401.47	1363.28	1222.78	1391.79	956.54	
G25	840.25	861.53	951.4	831.56	1229.1	1197.29	1075.52	1223.16	840.25	
G26	736.37	755.62	834.63	727.63	1080.43	1052.59	938.42	1076.18	736.37	
G27	645.51	663.45	734.1	634.8	947.67	924.96	822.78	949.6	645.51	
G28	564.66	581.65	642.92	554.28	833.69	809.43	718.15	836.38	564.66	
G29	490.09	507.32	564.0	482.35	730.28	706.4	626.3	731.41	490.09	
G30	423.55	440.63	494.53	416.89	640.13	617.52	544.75	641.45	423.55	
G31	366.67	382.44	430.95	358.51	555.37	538.56	476.45	559.66	366.67	
G32	315.61	330.66	373.37	308.81	480.75	467.86	414.44	486.93	315.61	
G33	272.99	287.57	324.2	266.76	416.42	405.28	360.82	420.29	272.99	
G34	238.2	249.91	282.57	232.73	359.78	351.38	312.96	364.36	238.2	
G35	209.41	219.51	247.5	204.55	311.78	305.88	273.22	316.55	209.41	
G36	187.51	194.4	219.04	182.04	271.71	267.46	239.43	275.96	187.51	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/8/1 16:57:41

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 DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	169.67	174.72	196.15	164.62	237.92	236.08	212.81	243.35	169.67	
G38	155.89	158.86	177.79	150.94	211.3	210.83	189.64	216.92	155.89	
G39	145.08	146.83	163.3	140.36	189.4	190.39	172.36	195.3	145.08	
G40	136.92	137.34	151.64	132.62	173.07	174.44	157.73	178.03	136.92	
G41	130.07	130.41	142.53	125.83	159.71	160.89	146.55	164.58	130.07	
G42	124.98	124.27	135.36	120.68	149.52	150.51	137.72	154.0	124.98	
G43	120.45	119.08	129.7	116.29	141.4	141.97	130.74	144.89	120.45	
G44	117.14	115.02	124.79	112.9	135.12	135.64	125.5	138.57	117.14	
G45	113.6	111.81	120.4	109.59	129.18	130.59	120.92	133.14	113.6	
G46	111.05	108.51	116.86	107.0	125.17	125.59	116.81	128.61	111.05	
G47	108.55	105.96	113.93	104.4	120.97	122.0	113.84	124.6	108.55	
G48	105.91	103.64	110.91	102.09	117.57	118.65	110.63	121.3	105.91	
G49	103.22	101.14	108.32	99.87	114.45	115.4	108.13	117.95	103.22	
G50	100.95	98.69	105.77	97.7	111.67	112.47	105.39	115.54	100.95	
G51	98.55	96.61	103.5	95.29	108.84	110.2	102.89	112.52	98.55	
G52	96.19	94.44	100.77	93.07	106.62	107.33	100.29	109.73	96.19	
G53	93.64	92.27	98.55	90.85	103.93	104.45	98.17	107.14	93.64	
G54	91.75	90.19	95.95	88.78	101.66	101.95	95.48	104.45	91.75	
G55	89.34	87.93	94.02	86.7	99.02	99.63	93.36	101.61	89.34	
G56	86.84	85.76	91.37	84.53	96.61	97.08	90.81	99.3	86.84	
G57	83.92	83.16	89.3	81.79	94.11	94.25	88.4	96.61	83.92	
G58	80.75	79.95	86.51	78.49	91.7	91.66	85.9	93.92	80.75	
G59	76.6	76.51	82.5	74.67	88.97	89.01	82.74	91.09	76.6	
G60	73.16	72.97	78.68	71.31	85.95	85.1	79.01	87.55	73.16	
G61	69.76	69.95	75.42	67.82	81.98	81.37	75.42	83.54	69.76	
G62	66.83	66.55	72.07	64.85	78.16	77.64	71.83	80.09	66.83	
G63	63.57	63.43	69.29	61.64	74.48	74.38	68.58	76.36	63.57	
G64	60.46	60.46	65.7	58.9	71.36	70.8	65.41	73.11	60.46	
G65	57.25	57.63	62.77	55.79	68.11	67.54	62.25	69.62	57.25	
G66	54.42	54.94	59.66	53.0	64.8	64.33	58.81	66.45	54.42	
G67	51.49	51.92	57.06	50.17	61.88	61.4	56.16	63.01	51.49	
G68	48.38	48.71	54.09	47.2	58.76	58.52	53.0	60.03	48.38	
G69	45.5	46.11	51.21	44.41	55.79	55.65	50.22	57.11	45.5	
G70	43.0	43.42	48.14	41.91	53.05	52.53	46.91	54.13	43.0	
G71	40.35	40.87	45.55	39.41	50.08	49.37	44.32	51.11	40.35	
G72	37.85	38.42	42.76	37.14	47.2	46.58	41.58	48.0	37.85	
G73	35.26	36.11	40.26	34.5	44.32	44.13	39.13	45.26	35.26	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/8/1 16:57:41

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.87 m

Remarks:

[illegible]

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