

Report No.:

Test Time: 2025/7/16 16:11:54

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP104SCT095H78-3F-60°
Lamp Type:
Luminous Width: 90 mm
Luminous Length: 280 mm
Luminous Height: 70 mm

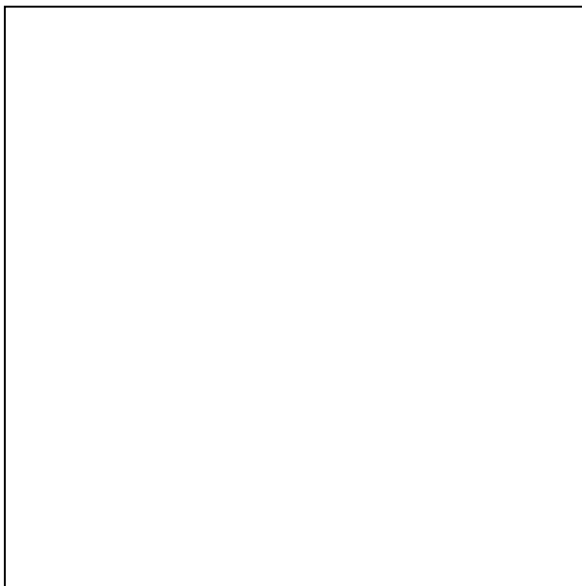
Voltage(V): 219.70 V
Current(A): 0.1530 A
Power(W): 30.84 W
Power Factor: 0.9160
Lamp Luminous Flux: 3053.95

Photometric Results

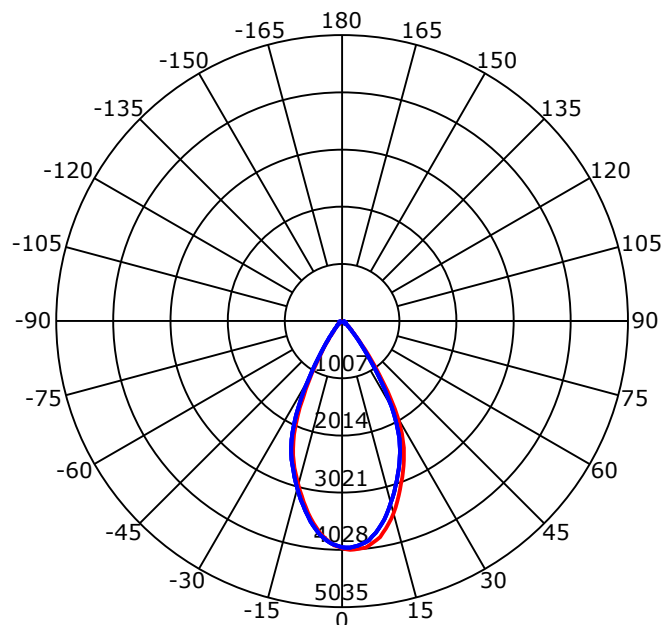
CIE Class: Direct
Luminaire Luminous Flux: 3053.948 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 99.02 lm/W
Beam Angle(50%) C0-180,C90-270: 53.6,53.4
Field Angle(10%) C0-180,C90-270: 78.2,78.2
S/MH C0-180,C90-270: 0.849,0.808

Max. Intensity: 4028.30 cd
Max.Intensity Angle: C=0 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 4001.26 cd
Effective Luminous Flux: 2745.64 lm
ERP(ϕ use)(120deg): 2995.34 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 —

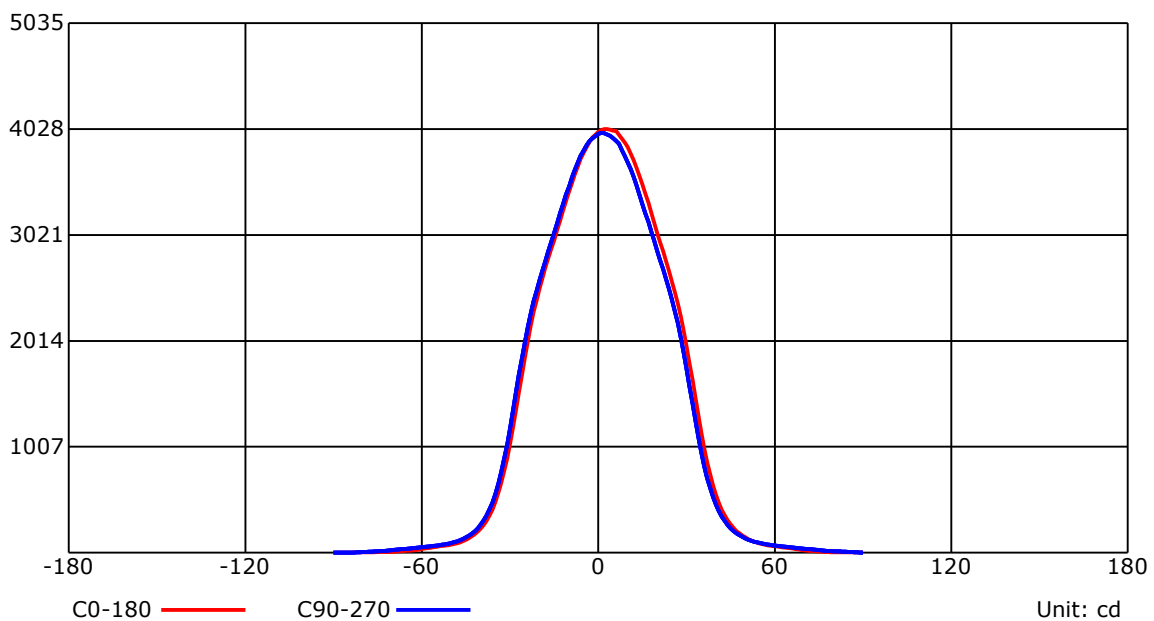
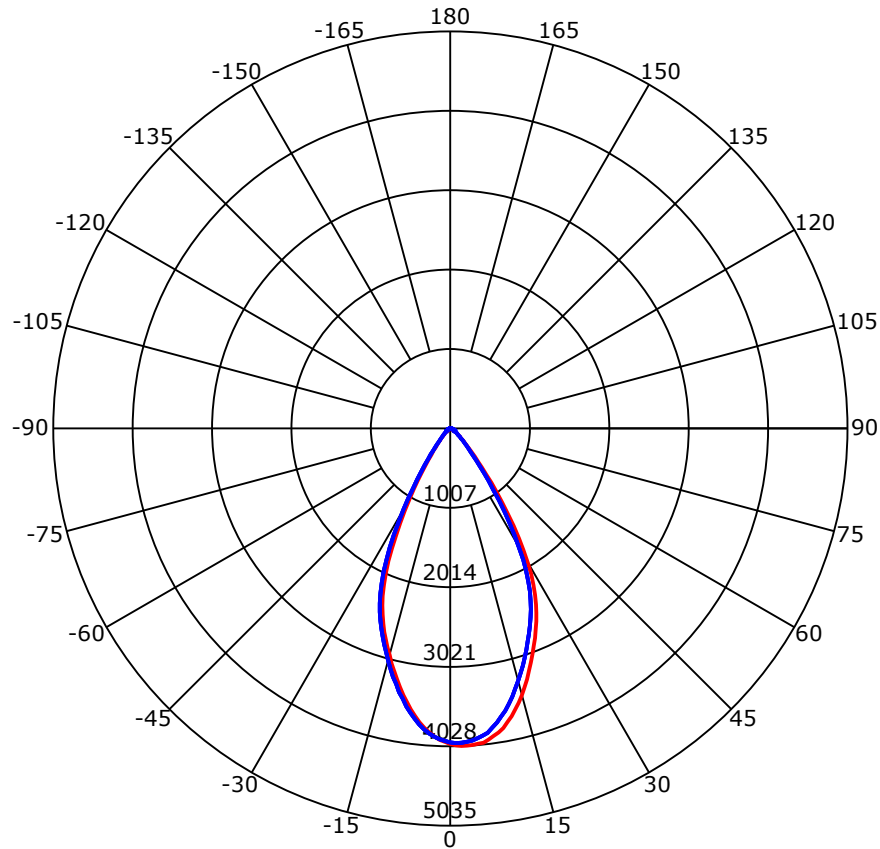
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/7/16 16:11:54

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



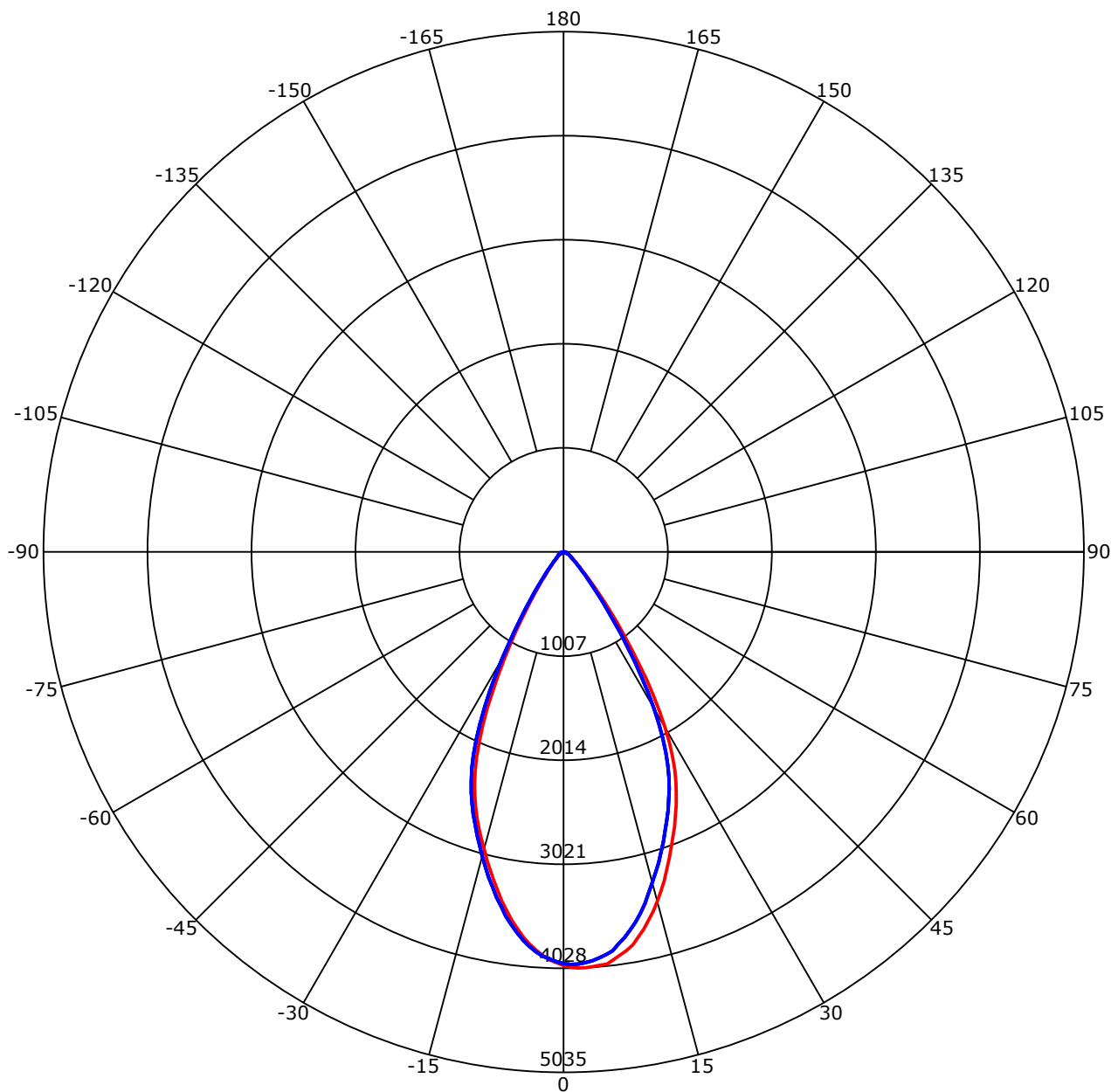
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Temperature: 25
Operators: QC01
Test Date: 2025/7/16 16:11:54

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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: 2025/7/16 16:11:54

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

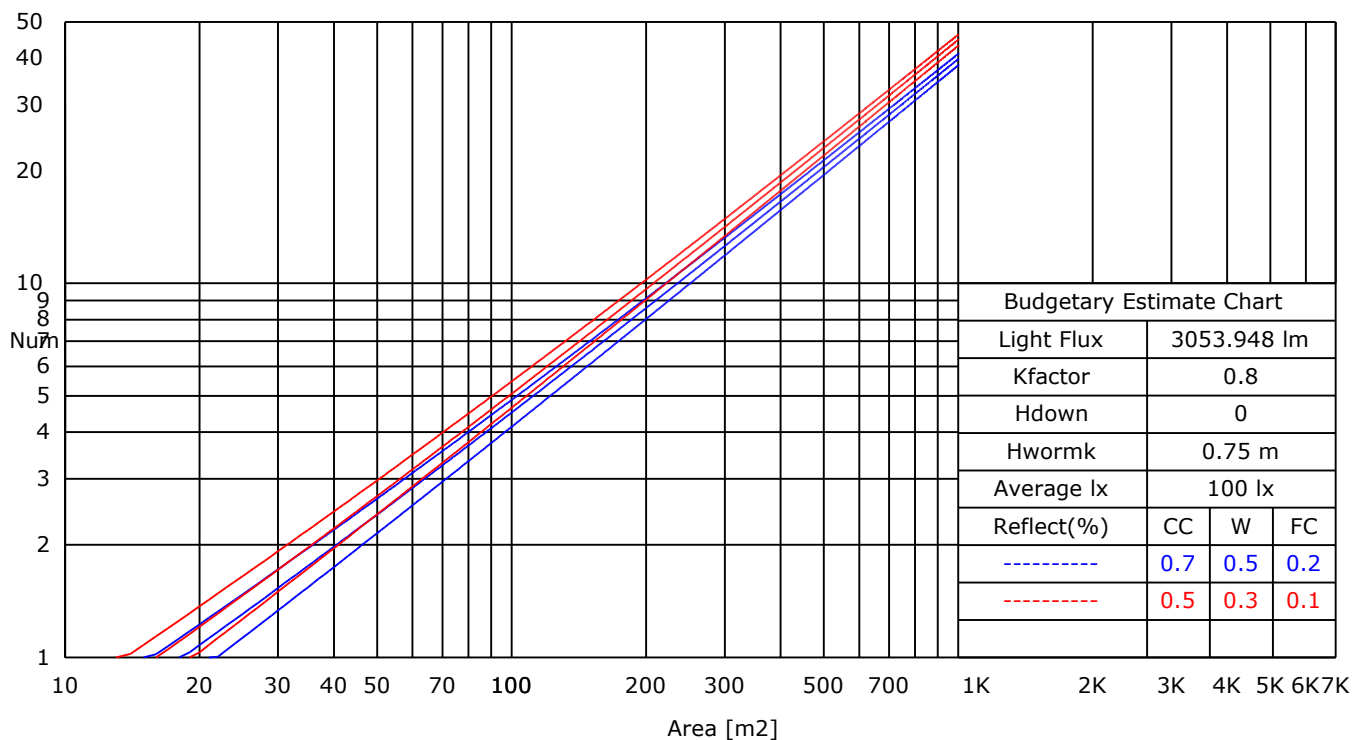
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UTILIZATION FACTORS TABLE

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	1.06	1.04	1.03	1.04	1.02	1.01	1.01	0.99	0.97	0.96	0.94	0.92	0.89	0.87	0.85	0.80
2	1.00	0.98	0.97	0.99	0.97	0.95	0.96	0.93	0.91	0.92	0.89	0.86	0.86	0.83	0.81	0.76
3	0.96	0.94	0.93	0.95	0.92	0.91	0.92	0.89	0.87	0.88	0.85	0.82	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	0.81	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	0.78	0.76	0.78	0.74	0.71	0.67
6	0.85	0.83	0.82	0.84	0.82	0.80	0.82	0.79	0.77	0.79	0.75	0.73	0.76	0.72	0.68	0.65
7	0.82	0.80	0.80	0.81	0.79	0.78	0.79	0.76	0.74	0.76	0.73	0.70	0.73	0.69	0.66	0.62
8	0.79	0.78	0.77	0.78	0.76	0.75	0.76	0.73	0.71	0.74	0.70	0.68	0.71	0.67	0.64	0.60
9	0.77	0.75	0.75	0.76	0.74	0.73	0.74	0.71	0.69	0.72	0.68	0.66	0.69	0.65	0.62	0.59
10	0.74	0.73	0.72	0.73	0.72	0.71	0.72	0.69	0.67	0.70	0.66	0.64	0.67	0.63	0.60	0.57

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



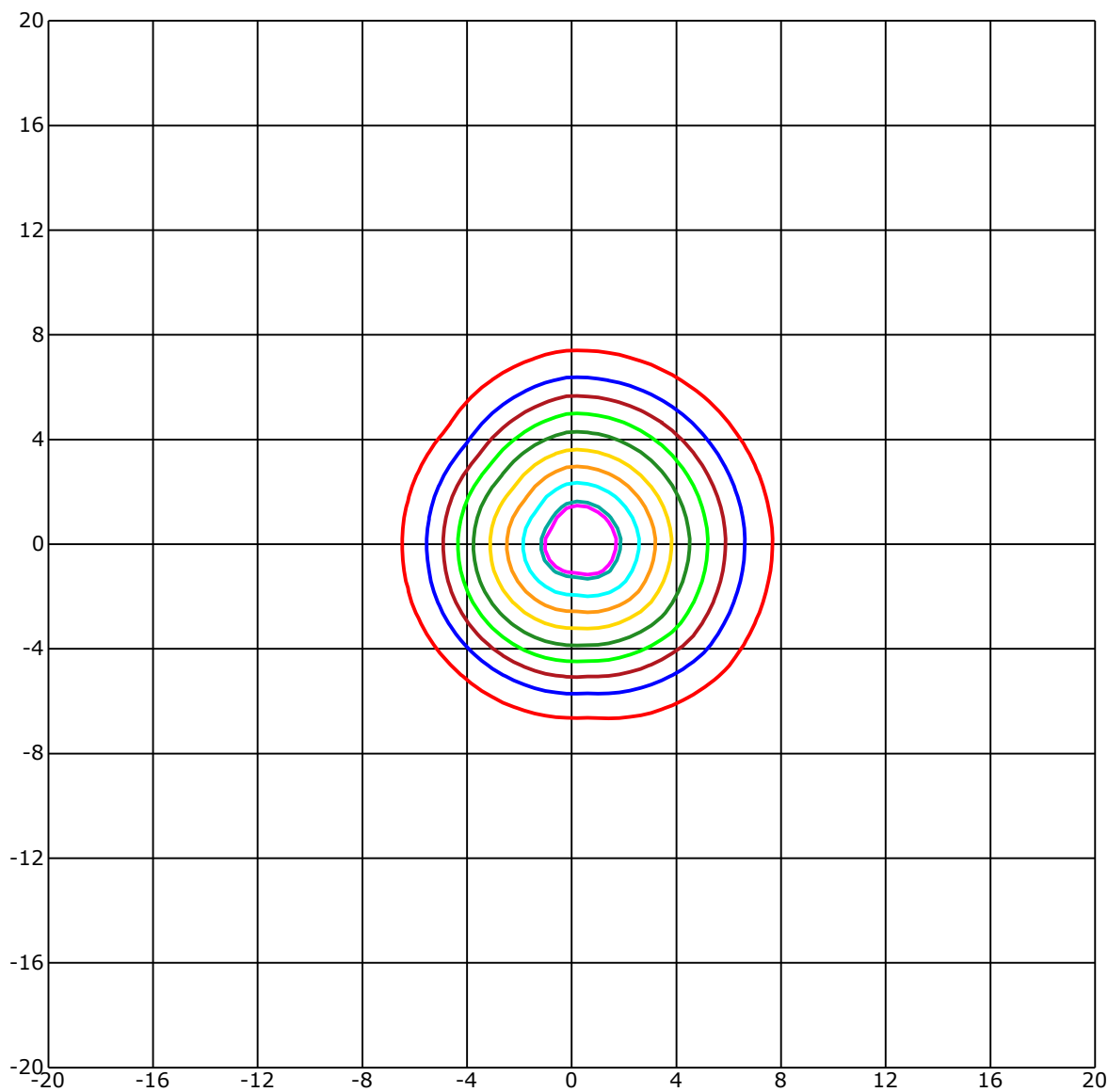
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/7/16 16:11:54

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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ISOLX DIAGRAM



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

36.993(92%Emax)	20.105(50%Emax)
36.189(90%Emax)	16.084(40%Emax)
32.168(80%Emax)	12.063(30%Emax)
28.147(70%Emax)	8.042(20%Emax)
24.126(60%Emax)	4.021(10%Emax)

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/7/16 16:11:54

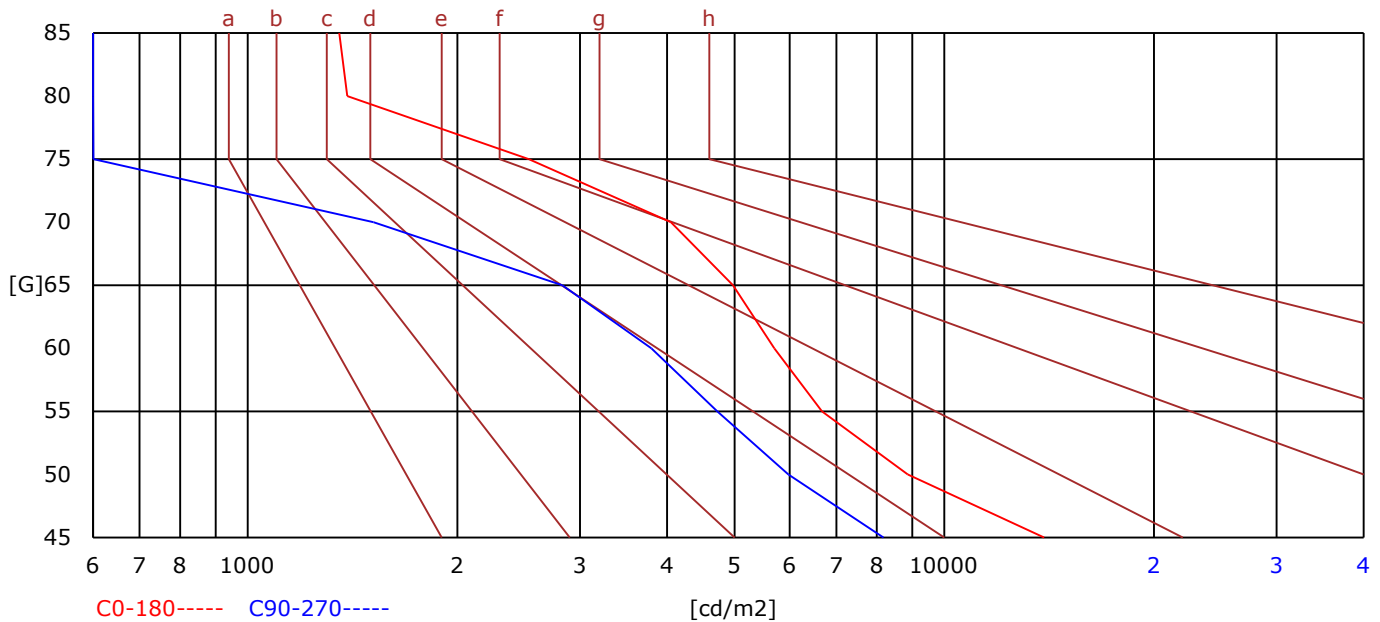
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	13919	8869	6678	5701	4977	4052	2533	1391	1354
C90	8182	5973	4722	3798	2832	1517	601	280	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



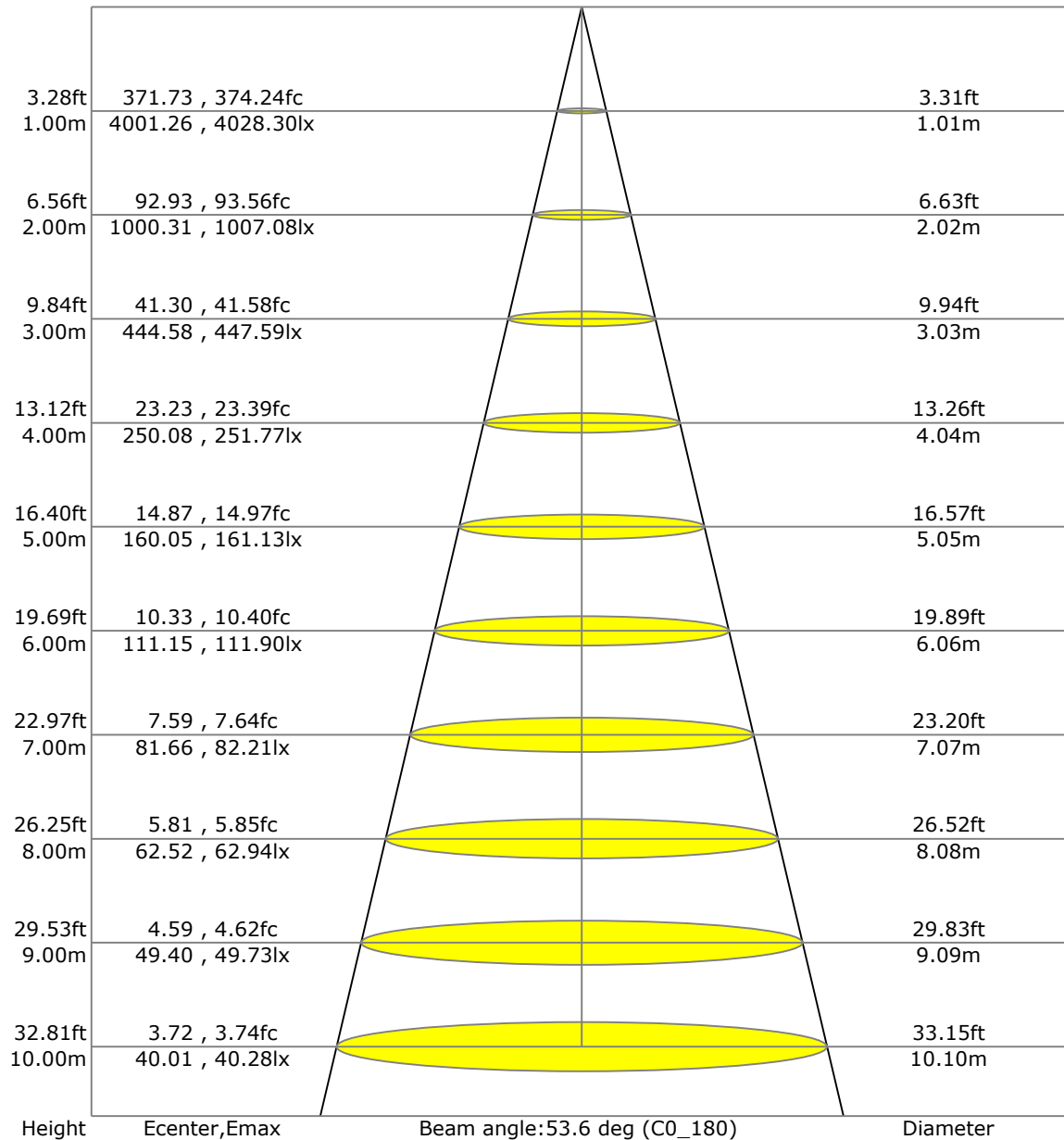
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/7/16 16:11:54

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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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 16:11:54

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 16:11:54

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	11.47	11.52	11.67	11.71	11.95	11.46	11.52	11.66	11.70	11.95
3H	11.47	11.52	11.67	11.71	11.96	11.45	11.51	11.66	11.70	11.95
4H	11.45	11.50	11.66	11.70	11.95	11.44	11.49	11.65	11.69	11.94
6H	11.44	11.49	11.65	11.69	11.94	11.42	11.47	11.64	11.67	11.93
8H	11.43	11.48	11.64	11.68	11.93	11.41	11.46	11.63	11.67	11.92
12H	11.42	11.47	11.64	11.67	11.93	11.40	11.45	11.62	11.66	11.91
4H 2H	11.66	11.71	11.87	11.91	12.15	11.76	11.82	11.97	12.01	12.26
3H	11.67	11.72	11.89	11.93	12.18	11.78	11.83	12.00	12.04	12.29
4H	11.66	11.71	11.89	11.92	12.18	11.76	11.82	11.99	12.03	12.29
6H	11.64	11.69	11.88	11.91	12.17	11.74	11.79	11.98	12.01	12.28
8H	11.63	11.68	11.87	11.90	12.17	11.73	11.78	11.97	12.00	12.27
12H	11.61	11.66	11.86	11.89	12.16	11.72	11.76	11.96	11.99	12.26
8H 4H	11.65	11.70	11.86	11.90	12.15	11.81	11.86	12.03	12.06	12.32
6H	11.63	11.67	11.88	11.91	12.18	11.80	11.84	12.05	12.08	12.35
8H	11.61	11.65	11.87	11.90	12.18	11.78	11.83	12.05	12.07	12.35
12H	11.60	11.64	11.86	11.89	12.17	11.77	11.81	12.04	12.06	12.34
12H 4H	11.64	11.69	11.89	11.92	12.19	11.84	11.88	12.08	12.11	12.38
6H	11.62	11.66	11.88	11.91	12.18	11.82	11.86	12.08	12.10	12.38

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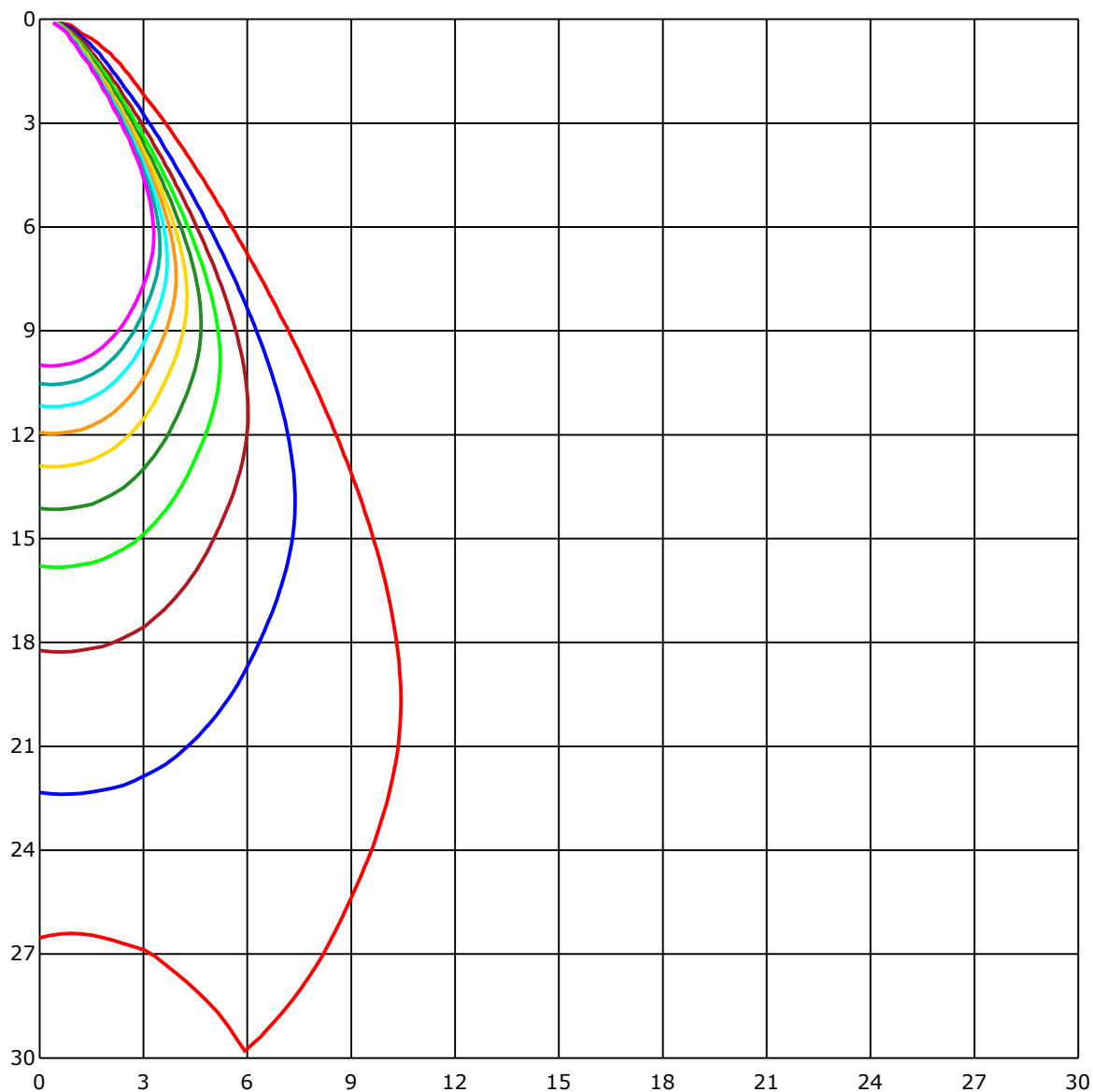
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
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SPACE ISOLX DIAGRAM



40.12	20.06
36.108	16.048
32.096	12.036
28.084	8.024
24.072	4.012

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/7/16 16:11:54

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

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	4001.26	4001.64	3981.53	3986.68	4001.26	4001.64	3981.53	3986.68	4001.26	
G1	4019.15	4017.68	3991.02	3952.65	3974.36	3981.91	3962.7	3989.65	4019.15	
G2	4028.3	4016.46	3988.85	3924.28	3949.67	3945.05	3941.56	3996.59	4028.3	
G3	4027.97	4019.57	3978.13	3881.76	3908.23	3919.99	3914.56	3996.45	4027.97	
G4	4021.32	4006.69	3965.63	3838.57	3859.29	3873.4	3877.08	3987.34	4021.32	
G5	4013.2	3993.19	3943.87	3781.7	3807.42	3820.02	3828.47	3980.87	4013.2	
G6	4008.95	3966.76	3917.3	3729.22	3746.77	3764.43	3776.04	3952.55	4008.95	
G7	3972.8	3938.53	3887.14	3659.22	3670.03	3691.22	3709.63	3928.76	3972.8	
G8	3937.83	3894.17	3827.86	3581.25	3597.82	3617.31	3642.28	3892.28	3937.83	
G9	3901.63	3850.94	3773.82	3493.56	3512.58	3541.18	3570.26	3847.96	3901.63	
G10	3858.91	3790.01	3710.48	3412.29	3434.85	3450.0	3481.9	3788.12	3858.91	
G11	3791.42	3730.82	3645.73	3328.89	3339.28	3370.28	3404.6	3728.7	3791.42	
G12	3730.82	3660.88	3572.0	3248.28	3252.29	3271.41	3312.42	3673.24	3730.82	
G13	3655.68	3582.58	3491.16	3143.5	3158.46	3186.83	3230.25	3597.21	3655.68	
G14	3582.06	3503.66	3399.97	3047.27	3072.38	3094.32	3137.18	3513.76	3582.06	
G15	3501.4	3418.52	3312.85	2955.42	2973.97	3004.79	3047.22	3431.69	3501.4	
G16	3415.97	3328.84	3226.95	2865.98	2887.88	2915.73	2953.44	3348.43	3415.97	
G17	3327.76	3239.64	3144.31	2773.1	2801.8	2828.37	2868.3	3256.49	3327.76	
G18	3230.53	3144.02	3050.24	2683.05	2714.29	2740.49	2773.81	3167.01	3230.53	
G19	3135.48	3060.2	2965.24	2590.17	2613.43	2643.22	2684.8	3069.5	3135.48	
G20	3042.64	2965.1	2871.74	2490.63	2514.89	2544.1	2594.13	2977.56	3042.64	
G21	2952.54	2873.77	2784.1	2380.05	2403.88	2442.11	2493.88	2892.13	2952.54	
G22	2866.41	2780.98	2695.89	2267.15	2287.26	2329.55	2389.96	2802.41	2866.41	
G23	2769.94	2695.7	2602.11	2136.56	2156.29	2206.46	2271.68	2707.12	2769.94	
G24	2678.94	2601.78	2510.64	2000.06	2008.18	2068.26	2144.25	2619.81	2678.94	
G25	2580.63	2507.9	2408.69	1849.08	1853.52	1924.88	1999.78	2526.21	2580.63	
G26	2480.53	2401.38	2298.63	1690.03	1692.91	1765.16	1850.4	2417.71	2480.53	
G27	2367.02	2288.63	2179.36	1525.17	1519.03	1600.92	1692.53	2302.36	2367.02	
G28	2247.47	2161.95	2043.91	1365.03	1353.75	1430.77	1524.93	2180.97	2247.47	
G29	2110.69	2026.54	1901.14	1202.39	1193.66	1263.74	1354.83	2041.08	2110.69	
G30	1960.8	1879.33	1744.87	1051.17	1041.78	1104.22	1186.86	1892.5	1960.8	
G31	1803.82	1716.17	1581.9	910.81	899.34	956.07	1032.67	1731.09	1803.82	
G32	1643.02	1553.39	1412.89	786.39	774.5	822.03	892.02	1569.91	1643.02	
G33	1471.08	1389.38	1253.41	679.02	664.82	705.03	768.37	1403.12	1471.08	
G34	1306.74	1227.69	1096.95	585.19	569.38	603.37	655.66	1243.5	1306.74	
G35	1145.28	1074.11	953.19	503.21	485.56	517.51	561.08	1087.94	1145.28	
G36	996.89	932.61	823.16	435.11	412.64	444.59	479.9	946.82	996.89	

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

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	863.99	802.06	709.7	375.92	351.85	383.57	412.31	818.63	863.99	
G38	743.07	688.27	611.44	326.7	302.96	332.41	354.97	705.55	743.07	
G39	637.16	591.19	526.53	285.82	261.99	290.78	307.02	608.42	637.16	
G40	548.95	506.14	453.94	251.42	228.53	255.85	267.23	526.06	548.95	
G41	472.16	435.91	394.99	221.92	200.87	226.69	232.96	453.42	472.16	
G42	404.81	374.41	342.65	198.23	176.85	202.0	204.22	392.11	404.81	
G43	349.82	323.63	298.33	177.18	155.51	181.61	181.14	340.95	349.82	
G44	306.02	282.85	260.81	159.95	137.81	164.1	162.36	298.52	306.02	
G45	267.84	248.02	230.46	145.79	122.71	149.76	146.36	263.12	267.84	
G46	234.66	220.17	204.69	133.38	109.73	136.73	131.73	233.25	234.66	
G47	206.3	195.35	183.27	122.15	98.74	125.69	119.46	208.09	206.3	
G48	183.41	174.96	165.0	112.66	89.91	116.1	108.74	187.56	183.41	
G49	163.4	158.39	149.38	104.54	83.07	107.66	99.87	170.1	163.4	
G50	145.98	143.67	135.64	96.75	77.26	100.29	92.18	155.18	145.98	
G51	130.12	130.92	124.08	89.82	72.26	93.59	85.52	142.3	130.12	
G52	116.58	120.59	113.65	83.87	67.87	87.31	80.0	131.54	116.58	
G53	104.64	111.72	104.97	77.97	63.86	81.98	75.61	121.44	104.64	
G54	94.02	103.41	97.32	72.97	60.27	76.65	71.46	113.27	94.02	
G55	85.66	96.52	90.71	68.25	56.16	72.12	67.96	105.96	85.66	
G56	78.68	90.62	85.33	63.86	51.96	67.35	64.75	99.4	78.68	
G57	73.06	85.38	80.33	59.75	47.72	63.39	61.88	93.4	73.06	
G58	68.48	80.33	75.75	55.79	43.66	59.23	58.85	88.26	68.48	
G59	64.33	75.89	72.12	51.92	39.69	55.41	56.16	83.63	64.33	
G60	60.74	71.83	68.62	47.86	34.55	51.4	53.57	79.43	60.74	
G61	57.25	67.77	65.32	44.41	29.26	47.15	50.45	75.09	57.25	
G62	53.85	63.72	62.21	40.73	25.91	43.28	47.06	71.41	53.85	
G63	50.17	60.08	59.14	37.19	22.94	39.36	43.8	67.87	50.17	
G64	46.54	56.73	56.16	33.7	20.39	35.44	40.54	64.28	46.54	
G65	42.81	53.0	53.19	30.16	18.22	31.39	37.99	60.27	42.81	
G66	39.13	48.85	49.79	26.43	15.72	26.81	35.3	56.83	39.13	
G67	35.16	45.4	46.25	22.89	13.5	22.84	32.85	52.81	35.16	
G68	30.68	41.91	43.14	19.73	11.52	19.54	30.39	48.71	30.68	
G69	25.68	38.42	40.59	16.0	9.91	17.09	28.03	45.12	25.68	
G70	22.42	34.93	38.04	13.07	8.35	14.63	25.34	41.49	22.42	
G71	19.82	31.29	35.68	10.95	6.94	12.55	22.89	37.52	19.82	
G72	17.32	27.61	33.09	8.73	6.28	10.48	20.34	33.79	17.32	
G73	14.96	24.16	30.68	6.99	6.04	8.73	17.56	29.64	14.96	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/7/16 16:11:54

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: