

Report No.:

Test Time: 2025/8/1 16:12:03

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP104SCT095H124-3F-EB-45°
Lamp Type:
Luminous Width: 90 mm
Luminous Length: 280 mm
Luminous Height: 70 mm

Voltage(V): 219.80 V
Current(A): 0.3410 A
Power(W): 72.54 W
Power Factor: 0.9650
Lamp Luminous Flux: 4853.38

Photometric Results

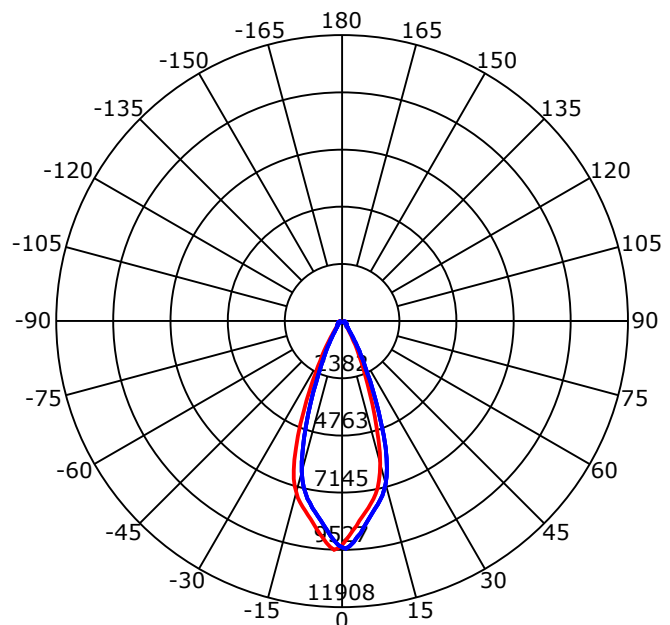
CIE Class: Direct
Luminaire Luminous Flux: 4853.375 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 66.91 lm/W
Beam Angle(50%) C0-180,C90-270: 39.5,39.4
Field Angle(10%) C0-180,C90-270: 64.0,63.8
S/MH C0-180,C90-270: 0.689,0.689

Max. Intensity: 9526.69 cd
Max.Intensity Angle: C=180 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 9329.88 cd
Effective Luminous Flux: 3909.50 lm
ERP(ϕ use)(120deg): 4624.24 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 39.5 deg,39.4 deg

C0-180 — C90-270 —

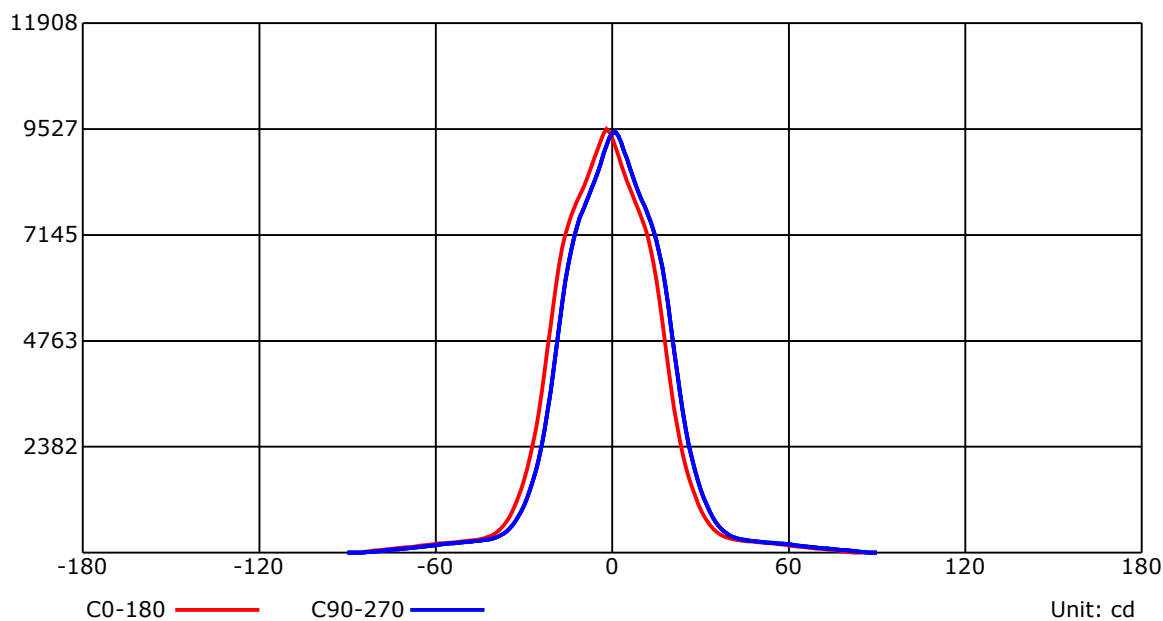
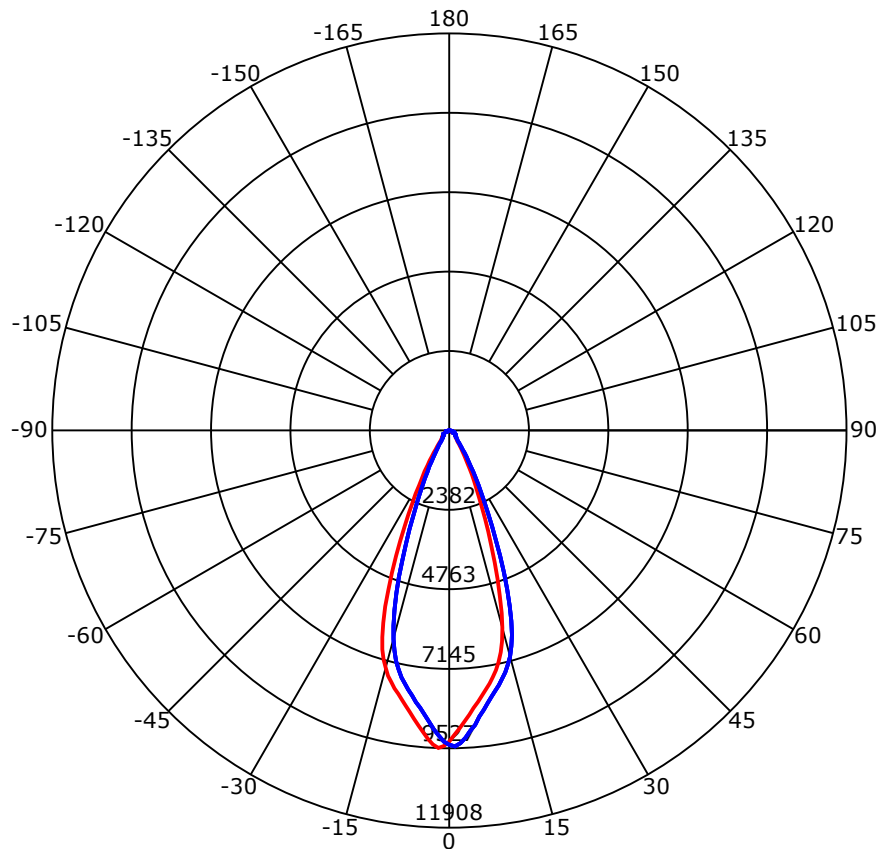
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/8/1 16:12:03

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 16:12:03

Luminous Intensity Distribution Curve



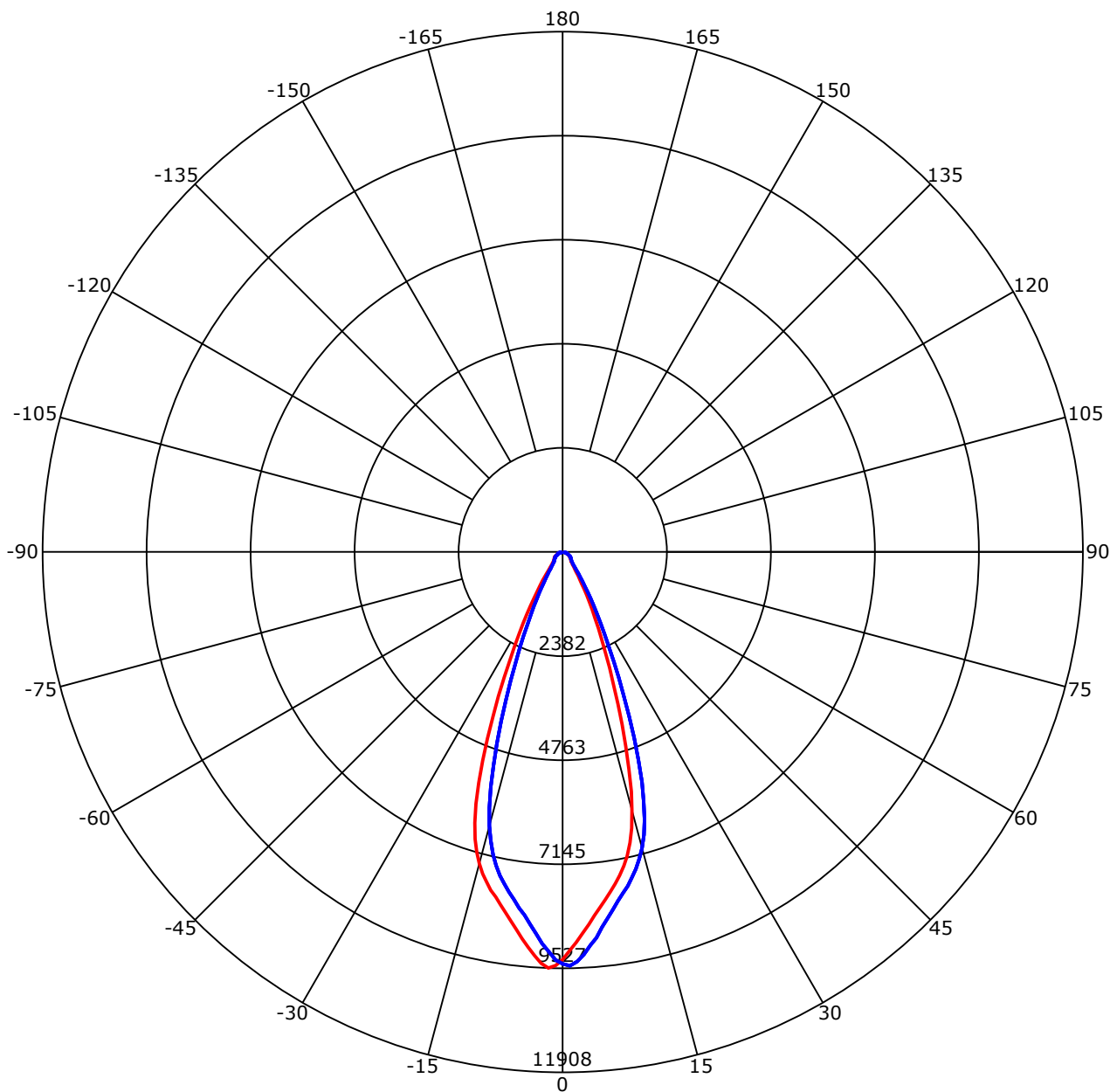
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C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/8/1 16:12:03

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 16:12:03

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

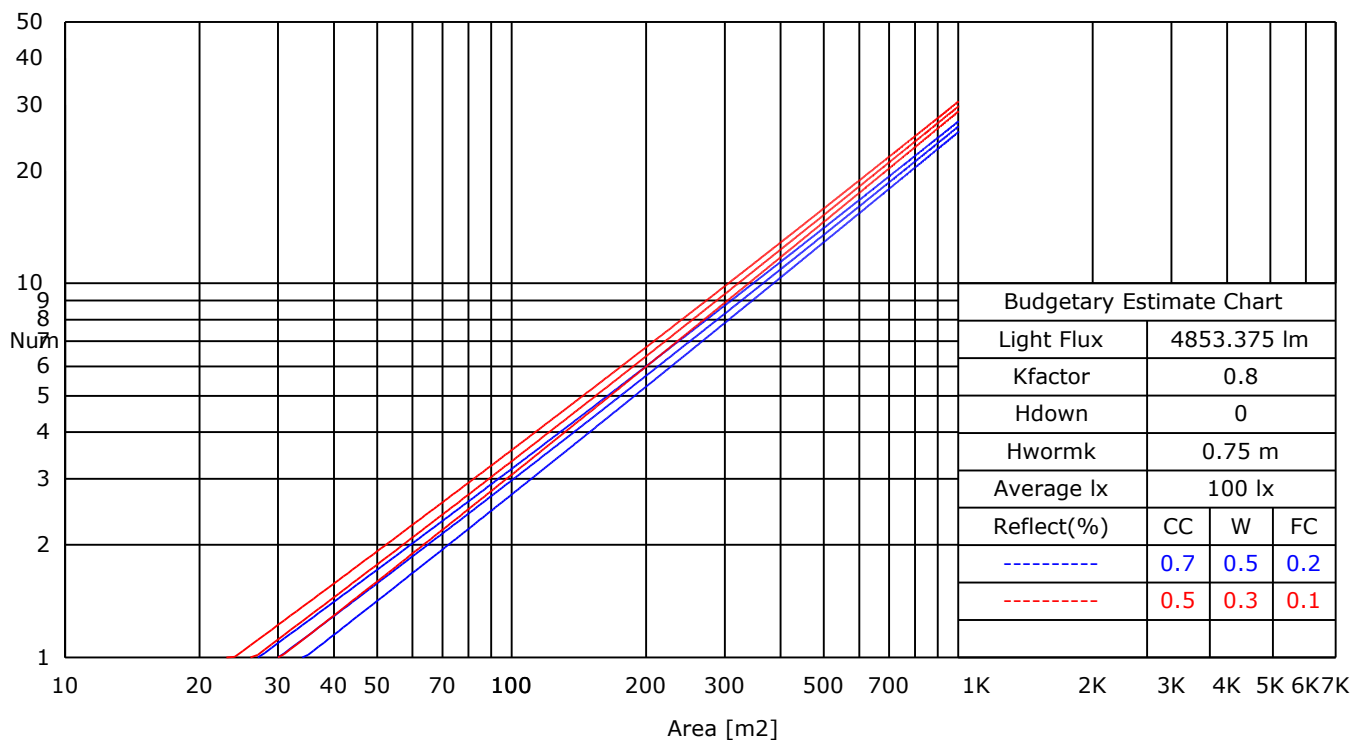
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UTILIZATION FACTORS TABLE

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	1.01	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	0.80	0.75
2	0.95	0.93	0.92	0.95	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	0.86	0.84	0.87	0.84	0.83	0.84	0.81	0.79	0.81	0.78	0.75	0.78	0.74	0.70	0.66
5	0.84	0.83	0.81	0.83	0.81	0.80	0.81	0.78	0.76	0.79	0.75	0.72	0.75	0.71	0.68	0.64
6	0.81	0.80	0.79	0.81	0.78	0.77	0.79	0.76	0.73	0.76	0.72	0.70	0.73	0.69	0.66	0.62
7	0.79	0.77	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
8	0.77	0.75	0.75	0.76	0.74	0.73	0.74	0.71	0.69	0.72	0.68	0.66	0.70	0.65	0.62	0.59
9	0.75	0.74	0.73	0.74	0.72	0.71	0.72	0.69	0.68	0.70	0.67	0.64	0.68	0.64	0.60	0.57
10	0.73	0.72	0.71	0.72	0.70	0.69	0.71	0.68	0.66	0.69	0.65	0.63	0.66	0.62	0.59	0.56

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



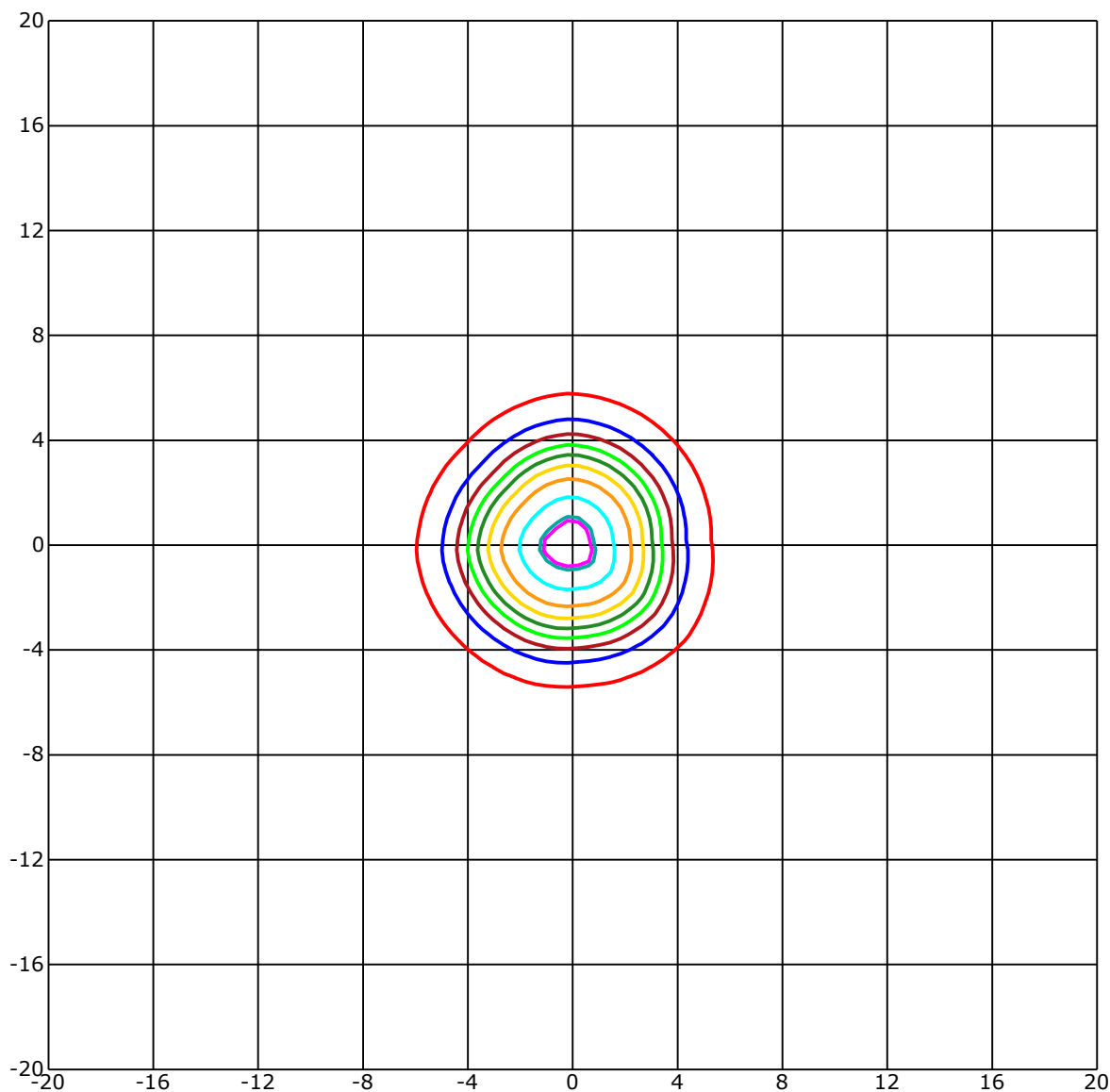
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/8/1 16:12:03

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 16:12:03

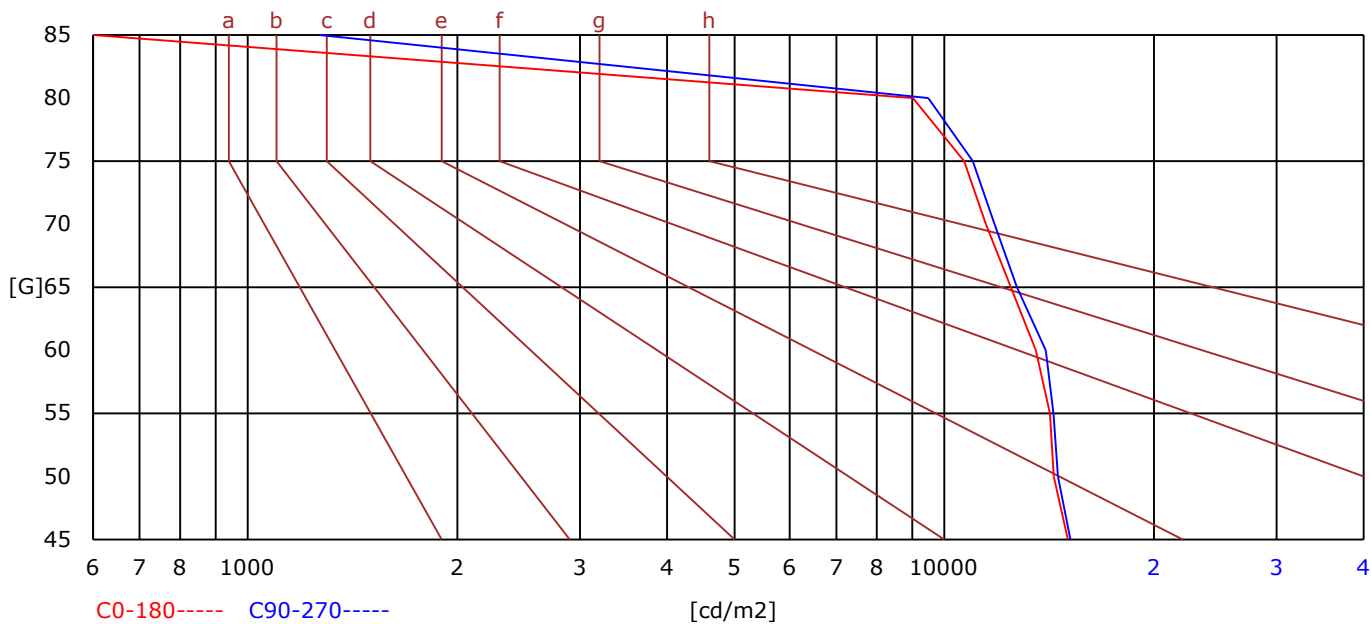
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	15042	14362	14184	13530	12457	11478	10681	9017	0
C90	15169	14554	14348	13983	12719	11812	10985	9481	1268
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



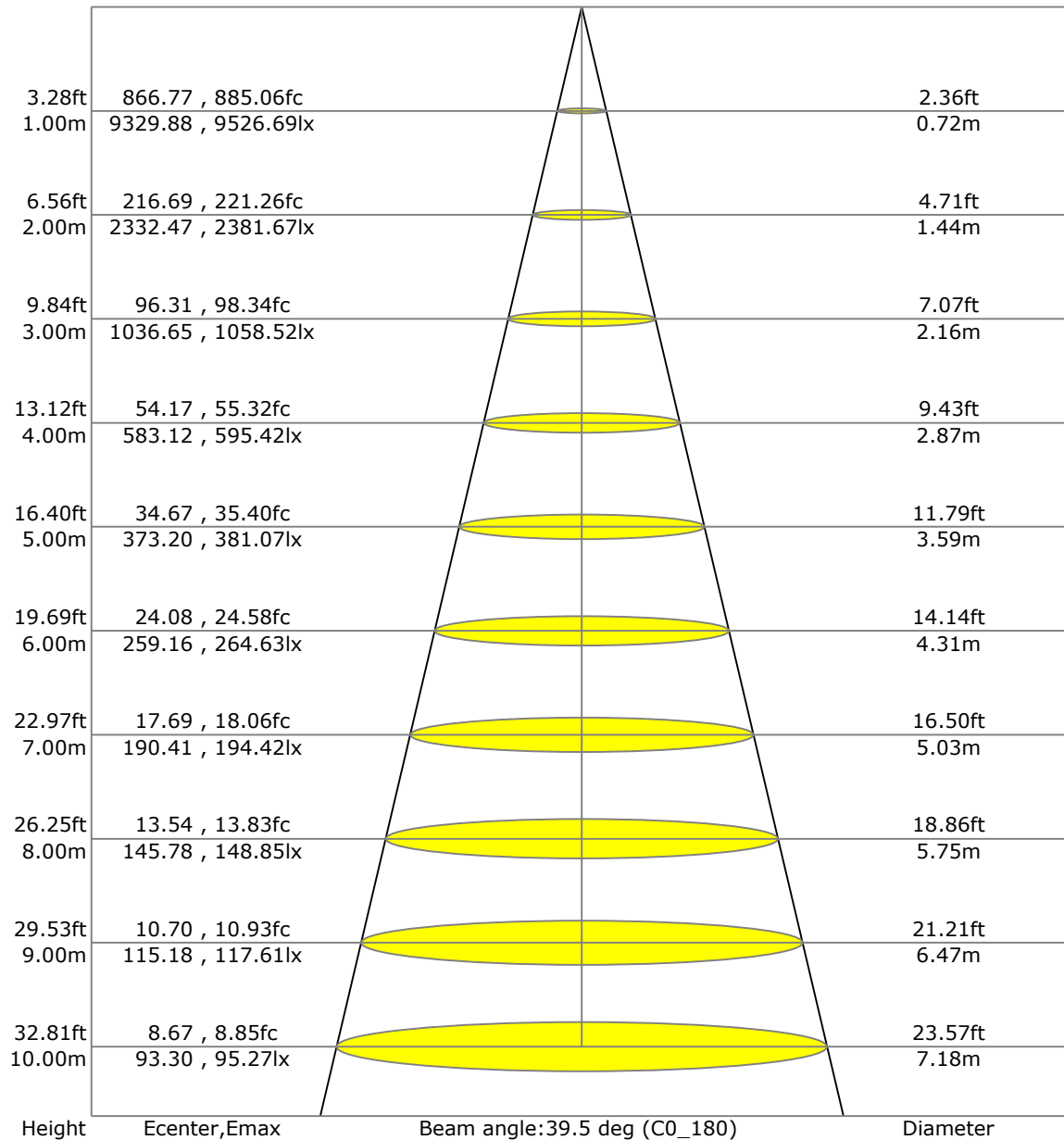
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Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/8/1 16:12:03

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 16:12:03

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	8.72	8.77	8.92	8.96	9.21	8.87	8.92	9.07	9.11	9.35
3H	8.86	8.91	9.07	9.11	9.35	8.98	9.04	9.19	9.23	9.48
4H	8.88	8.93	9.09	9.13	9.38	8.99	9.05	9.20	9.24	9.49
6H	8.87	8.93	9.09	9.13	9.38	8.98	9.04	9.20	9.24	9.49
8H	8.86	8.92	9.08	9.12	9.37	8.97	9.03	9.19	9.23	9.48
12H	8.85	8.91	9.07	9.11	9.37	8.96	9.02	9.18	9.22	9.48
4H 2H	10.39	10.44	10.60	10.64	10.89	10.79	10.84	11.00	11.04	11.29
3H	10.68	10.74	10.91	10.95	11.20	11.06	11.11	11.28	11.32	11.57
4H	10.75	10.81	10.98	11.02	11.28	11.11	11.17	11.34	11.38	11.64
6H	10.77	10.83	11.01	11.05	11.31	11.11	11.17	11.35	11.39	11.65
8H	10.77	10.82	11.01	11.04	11.31	11.10	11.15	11.34	11.38	11.64
12H	10.75	10.80	11.00	11.03	11.30	11.09	11.14	11.33	11.37	11.64
8H 4H	10.57	10.63	10.79	10.83	11.08	11.26	11.31	11.47	11.51	11.77
6H	11.06	11.11	11.32	11.35	11.62	11.75	11.80	12.00	12.04	12.31
8H	11.06	11.10	11.32	11.35	11.63	11.74	11.78	12.00	12.03	12.30
12H	11.04	11.09	11.31	11.34	11.62	11.72	11.76	11.99	12.02	12.30
12H 4H	11.01	11.06	11.26	11.29	11.56	11.78	11.83	12.03	12.06	12.33
6H	11.05	11.09	11.31	11.34	11.62	11.81	11.85	12.07	12.10	12.38

C Range: 0 - 360 Deg
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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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ZONAL LUMINOUS FLUX TABLE

[illegible]

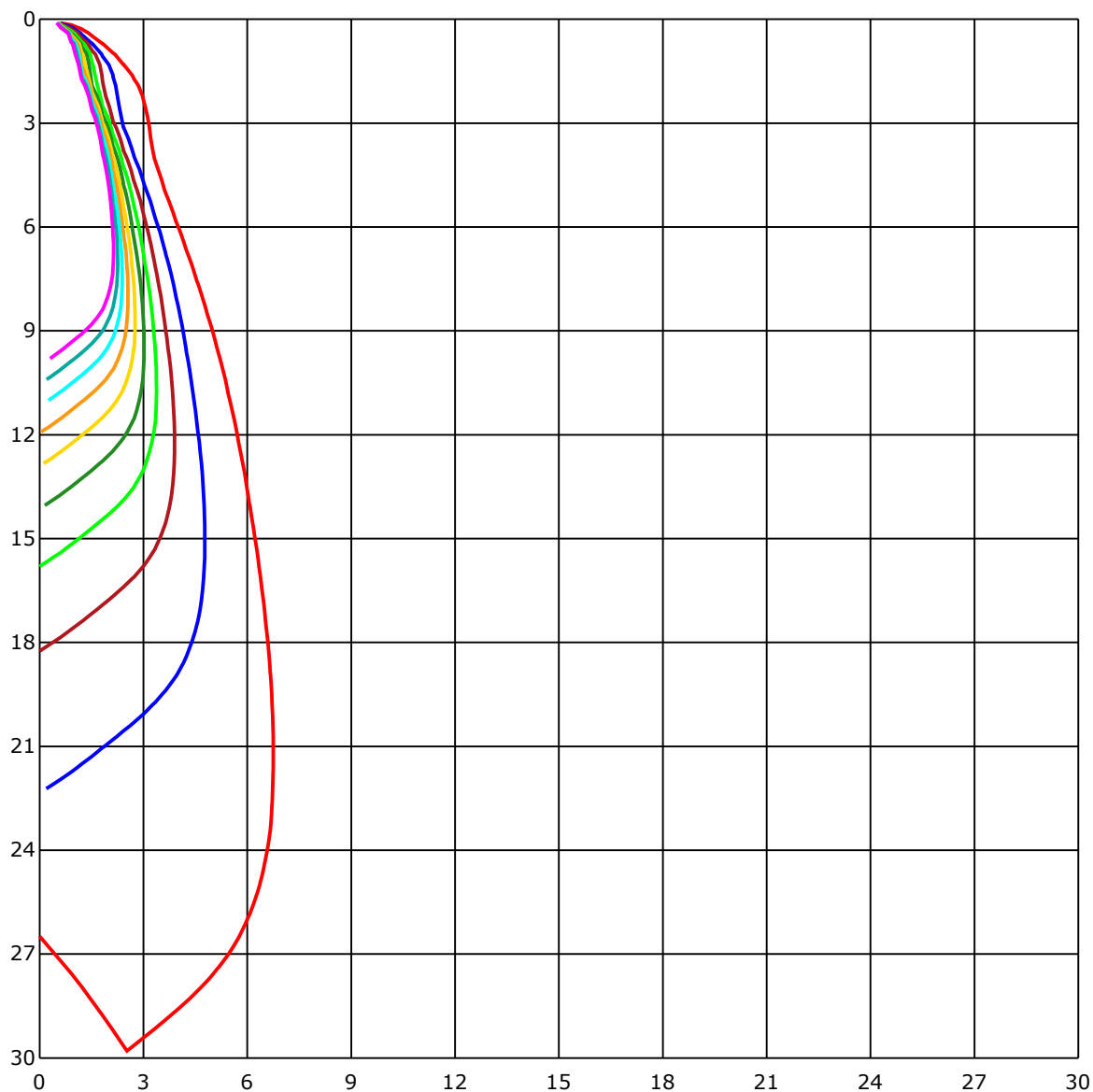
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/8/1 16:12:03

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

93.405

84.065

74.724

65.384

56.043

46.703

37.362

28.022

18.681

9.341

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/8/1 16:12:03

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	9329.88	9454.53	9424.42	9468.5	9329.88	9454.53	9424.42	9468.5	9329.88	
G1	9122.59	9359.43	9472.14	9408.56	9464.77	9419.32	9334.13	9408.32	9122.59	
G2	8935.18	9164.13	9378.31	9263.15	9526.69	9290.19	9152.47	9262.53	8935.18	
G3	8730.95	8959.81	9223.6	9072.38	9425.88	9113.2	8972.51	9093.52	8730.95	
G4	8541.88	8756.72	9020.93	8895.29	9259.94	8944.43	8752.57	8898.27	8541.88	
G5	8350.08	8570.63	8861.69	8709.81	9078.42	8734.73	8553.87	8706.13	8350.08	
G6	8178.04	8366.45	8631.37	8517.48	8896.05	8546.18	8358.29	8529.94	8178.04	
G7	8013.8	8185.08	8445.32	8339.22	8708.73	8360.79	8205.37	8332.85	8013.8	
G8	7851.63	8017.9	8260.78	8186.07	8527.68	8215.23	8027.25	8178.33	7851.63	
G9	7690.12	7851.91	8084.26	8005.26	8352.77	8055.94	7873.25	8019.46	7690.12	
G10	7515.16	7682.19	7925.49	7862.34	8197.96	7898.83	7702.35	7873.1	7515.16	
G11	7321.37	7520.35	7785.84	7699.61	8043.34	7742.23	7543.76	7686.96	7321.37	
G12	7107.33	7336.66	7614.65	7547.68	7910.77	7565.8	7328.59	7507.28	7107.33	
G13	6829.72	7151.56	7446.96	7343.32	7745.44	7382.73	7096.76	7328.5	6829.72	
G14	6513.08	6901.04	7242.08	7123.19	7586.01	7161.23	6804.57	7086.71	6513.08	
G15	6132.58	6606.53	7022.43	6824.81	7379.09	6911.51	6487.4	6811.65	6132.58	
G16	5703.32	6262.65	6736.79	6504.11	7144.43	6575.9	6088.12	6466.78	5703.32	
G17	5186.89	5866.48	6410.57	6113.23	6867.67	6187.75	5625.3	6074.67	5186.89	
G18	4677.54	5398.9	6005.1	5644.32	6517.7	5737.21	5129.17	5630.12	4677.54	
G19	4181.32	4902.48	5568.29	5143.38	6094.87	5250.42	4634.78	5127.19	4181.32	
G20	3702.31	4400.78	5059.6	4631.15	5620.21	4737.58	4123.88	4626.95	3702.31	
G21	3250.12	3906.58	4557.81	4129.96	5115.11	4221.34	3638.41	4128.5	3250.12	
G22	2854.14	3447.88	4057.71	3664.37	4605.57	3726.53	3181.83	3645.87	2854.14	
G23	2496.67	3029.29	3585.08	3227.04	4089.85	3269.99	2774.94	3204.15	2496.67	
G24	2193.19	2660.82	3149.54	2830.3	3619.53	2846.4	2423.33	2810.06	2193.19	
G25	1927.24	2338.94	2765.22	2487.09	3169.32	2493.84	2121.93	2465.0	1927.24	
G26	1691.25	2050.75	2421.86	2184.6	2786.74	2187.44	1851.53	2168.46	1691.25	
G27	1481.09	1801.08	2128.77	1910.01	2444.66	1911.29	1617.91	1908.55	1481.09	
G28	1301.5	1572.7	1863.95	1676.53	2148.69	1667.09	1409.58	1675.82	1301.5	
G29	1124.23	1376.36	1635.47	1461.36	1879.85	1451.21	1227.21	1467.92	1124.23	
G30	975.94	1199.27	1430.92	1269.5	1646.89	1264.5	1067.64	1280.22	975.94	
G31	844.54	1041.68	1249.16	1098.37	1435.31	1096.86	929.78	1115.03	844.54	
G32	732.26	898.77	1081.38	948.09	1243.07	952.01	807.87	970.89	732.26	
G33	636.54	778.04	939.36	815.61	1078.26	823.96	700.17	839.82	636.54	
G34	558.24	673.78	810.13	706.92	931.76	714.89	612.05	729.33	558.24	
G35	490.61	588.55	702.01	613.75	803.24	626.3	538.61	636.31	490.61	
G36	438.08	515.63	613.7	538.0	697.19	548.9	477.21	561.64	438.08	

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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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	395.75	454.51	539.37	476.31	609.31	490.09	425.95	499.48	395.75	
G38	363.56	405.56	476.74	421.33	537.24	437.0	388.24	447.57	363.56	
G39	337.74	369.98	425.72	382.15	476.78	399.52	357.56	409.2	337.74	
G40	319.66	341.52	387.06	350.91	426.33	368.47	334.15	376.73	319.66	
G41	302.25	319.33	357.23	328.44	388.52	343.92	314.85	351.71	302.25	
G42	289.84	301.21	333.68	308.57	360.49	324.62	300.13	332.36	289.84	
G43	280.59	288.8	314.1	293.14	338.21	311.36	289.74	316.36	280.59	
G44	271.62	276.48	298.05	281.01	319.1	297.39	280.16	303.9	271.62	
G45	263.17	268.03	286.82	270.3	303.95	287.0	271.34	292.72	263.17	
G46	256.47	258.07	275.77	261.42	293.28	277.38	263.31	283.75	256.47	
G47	250.52	252.5	268.55	252.79	283.37	270.39	257.84	276.53	250.52	
G48	245.24	245.42	259.68	248.07	274.45	262.32	250.05	267.8	245.24	
G49	237.87	238.91	255.38	239.85	265.34	256.89	244.01	261.05	237.87	
G50	231.64	232.63	245.61	235.75	259.96	249.95	237.35	255.1	231.64	
G51	226.03	226.78	239.19	229.24	251.98	244.06	233.72	248.3	226.03	
G52	220.88	220.93	233.15	225.13	246.37	239.01	226.26	241.84	220.88	
G53	215.17	215.83	228.43	219.04	239.81	232.21	220.46	236.31	215.17	
G54	208.09	210.45	221.78	213.57	233.91	225.79	213.66	229.24	208.09	
G55	202.76	205.02	217.72	207.38	228.1	221.45	209.13	222.96	202.76	
G56	198.51	198.27	210.4	203.09	223.01	215.41	204.46	217.34	198.51	
G57	188.69	193.41	206.96	198.89	217.39	209.04	196.48	210.55	188.69	
G58	179.44	185.96	201.53	191.15	212.34	202.57	187.23	204.5	179.44	
G59	172.5	179.49	192.99	182.98	207.19	195.54	179.4	196.15	172.5	
G60	163.63	170.48	186.71	176.19	200.3	185.01	169.39	185.77	163.63	
G61	154.43	162.4	178.69	166.51	191.05	176.14	161.56	176.52	154.43	
G62	146.55	154.62	169.06	158.58	182.89	168.02	152.97	168.26	146.55	
G63	138.76	147.07	160.8	151.12	174.53	160.42	146.55	160.71	138.76	
G64	132.72	138.9	152.92	144.94	165.71	152.82	138.66	153.58	132.72	
G65	124.51	132.67	146.22	135.46	157.68	145.08	130.36	144.99	124.51	
G66	117.24	126.39	138.81	128.99	150.51	137.72	122.71	136.97	117.24	
G67	112.05	119.46	132.67	121.77	142.16	130.59	116.67	129.41	112.05	
G68	104.92	112.38	124.65	116.67	135.08	122.81	109.17	122.52	104.92	
G69	97.32	105.3	118.13	108.22	127.67	115.92	103.22	115.4	97.32	
G70	91.51	98.92	111.05	101.8	121.11	108.93	95.81	109.45	91.51	
G71	85.28	93.73	104.87	96.23	113.84	103.55	91.28	102.04	85.28	
G72	79.76	86.37	99.02	89.86	108.22	97.37	82.97	95.57	79.76	
G73	73.11	81.27	92.51	83.96	100.1	89.53	77.21	89.53	73.11	

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/8/1 16:12:03

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

Test Time: 2025/8/1 16:12:03

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

[illegible]

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