

Report No.:

Test Time: 2025/4/17 16:24:35

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP138CT095H146-45°-25W
Lamp Type:
Luminous Width: 90 mm
Luminous Length: 90 mm
Luminous Height: 95 mm

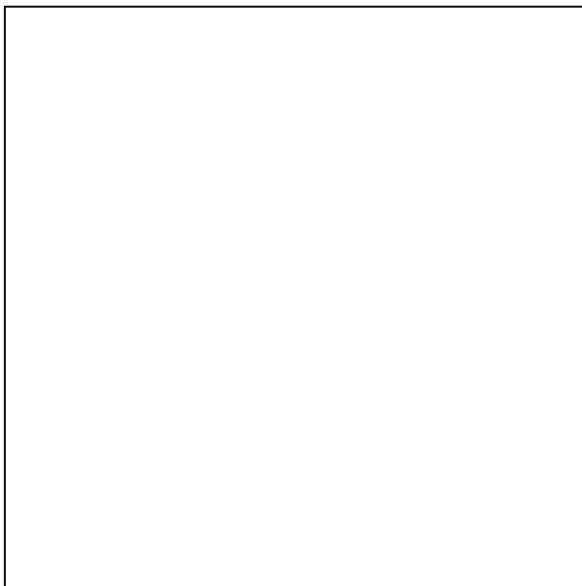
Voltage(V): 219.80 V
Current(A): 0.1150 A
Power(W): 24.66 W
Power Factor: 0.9680
Lamp Luminous Flux: 1912.86

Photometric Results

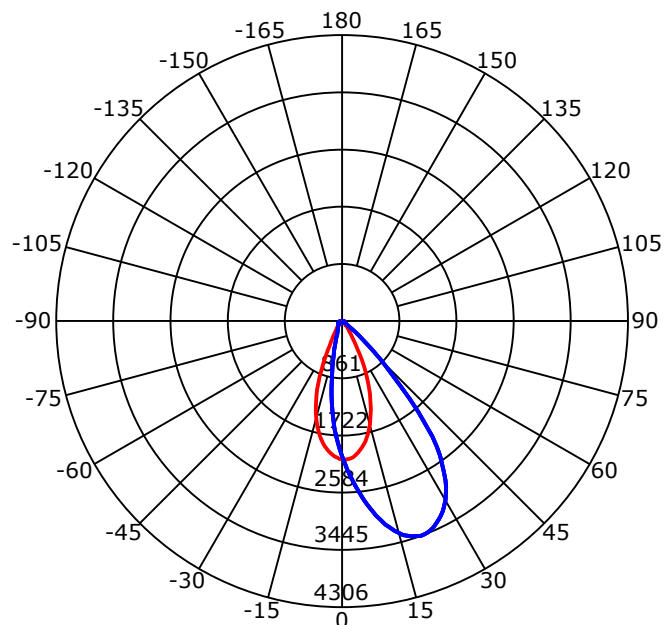
CIE Class: Direct
Luminaire Luminous Flux: 1912.863 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 77.58 lm/W
Beam Angle(50%) C0-180,C90-270: 43.0,43.3
Field Angle(10%) C0-180,C90-270: 66.5,66.2
S/MH C0-180,C90-270: 0.689,1.155

Max. Intensity: 3444.76 cd
Max.Intensity Angle: C=90 Gamma=20
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 2081.01 cd
Effective Luminous Flux: 1642.26 lm
ERP(ϕ use)(120deg): 1852.88 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 43.0 deg,43.3 deg

C0-180 — C90-270 —

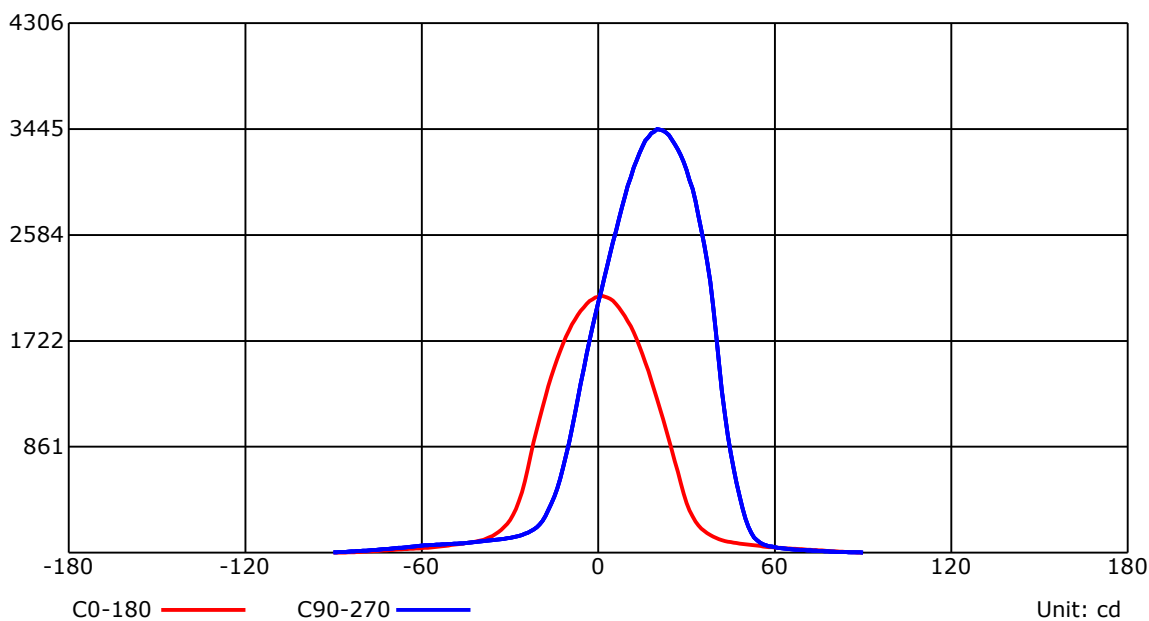
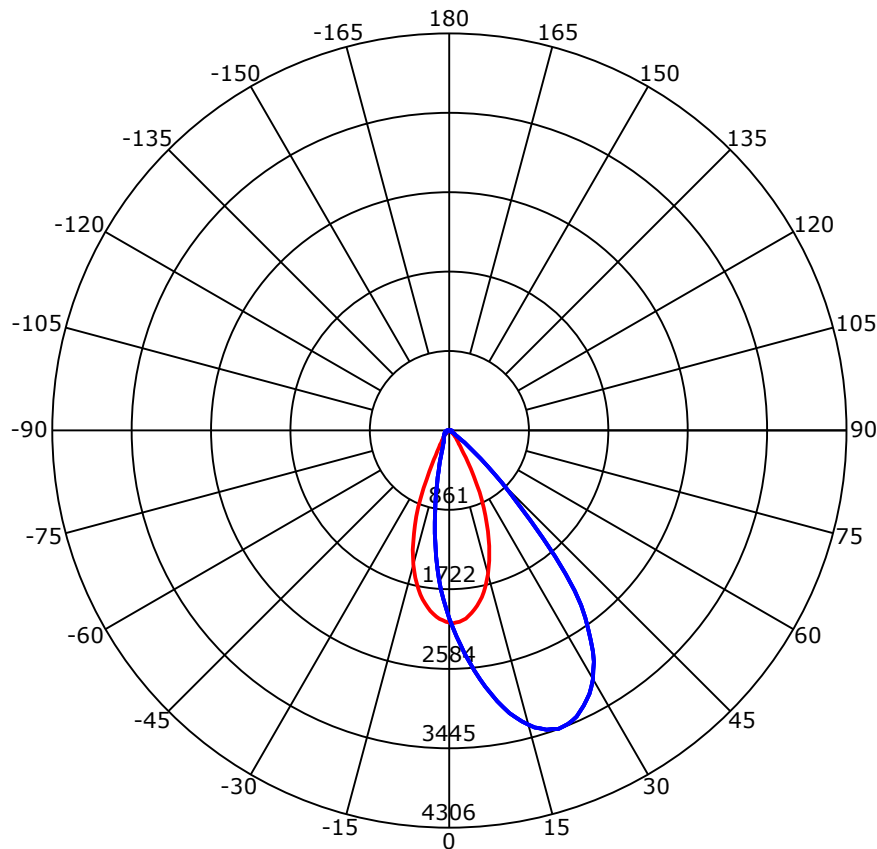
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/4/17 16:24:35

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



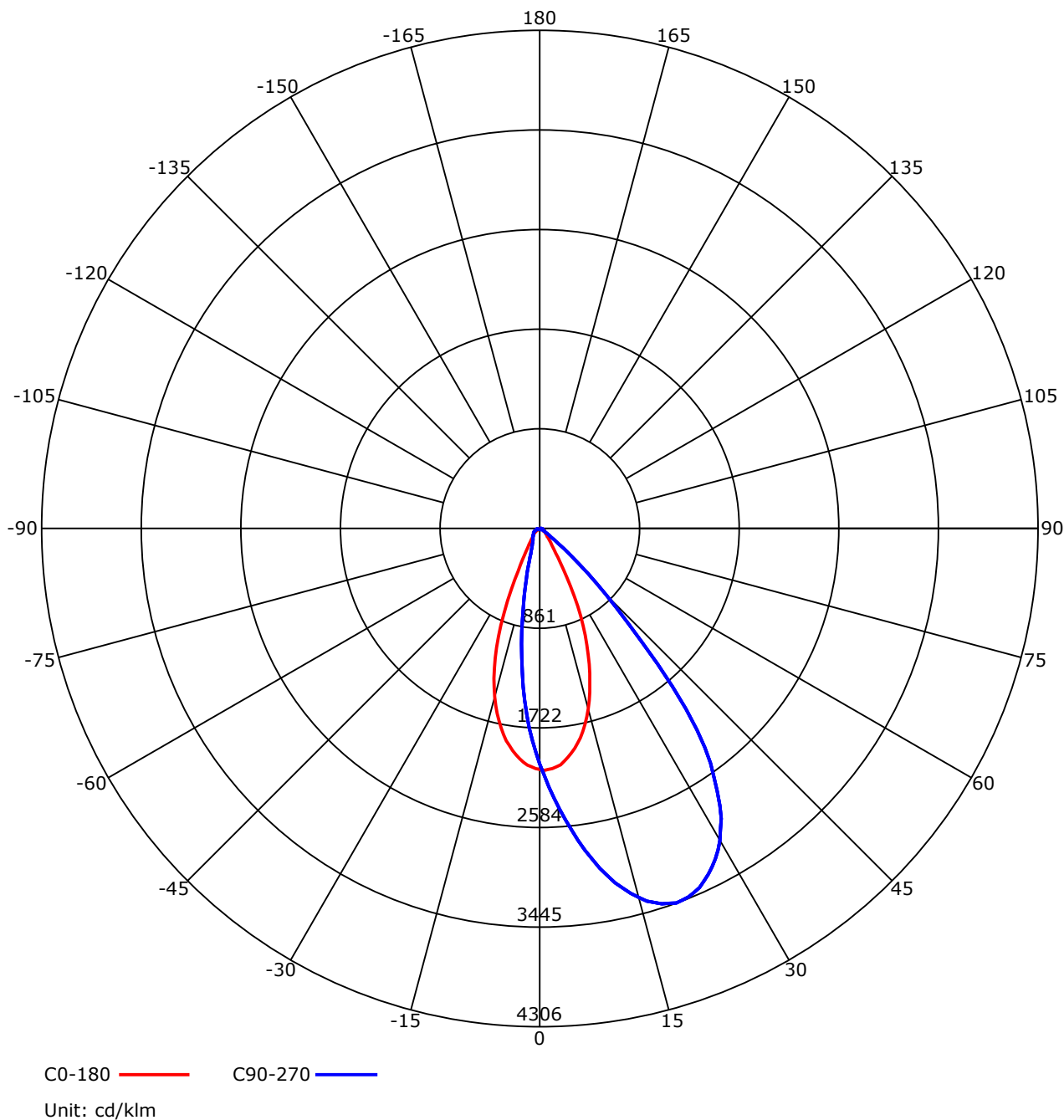
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Luminous Intensity Distribution Curve



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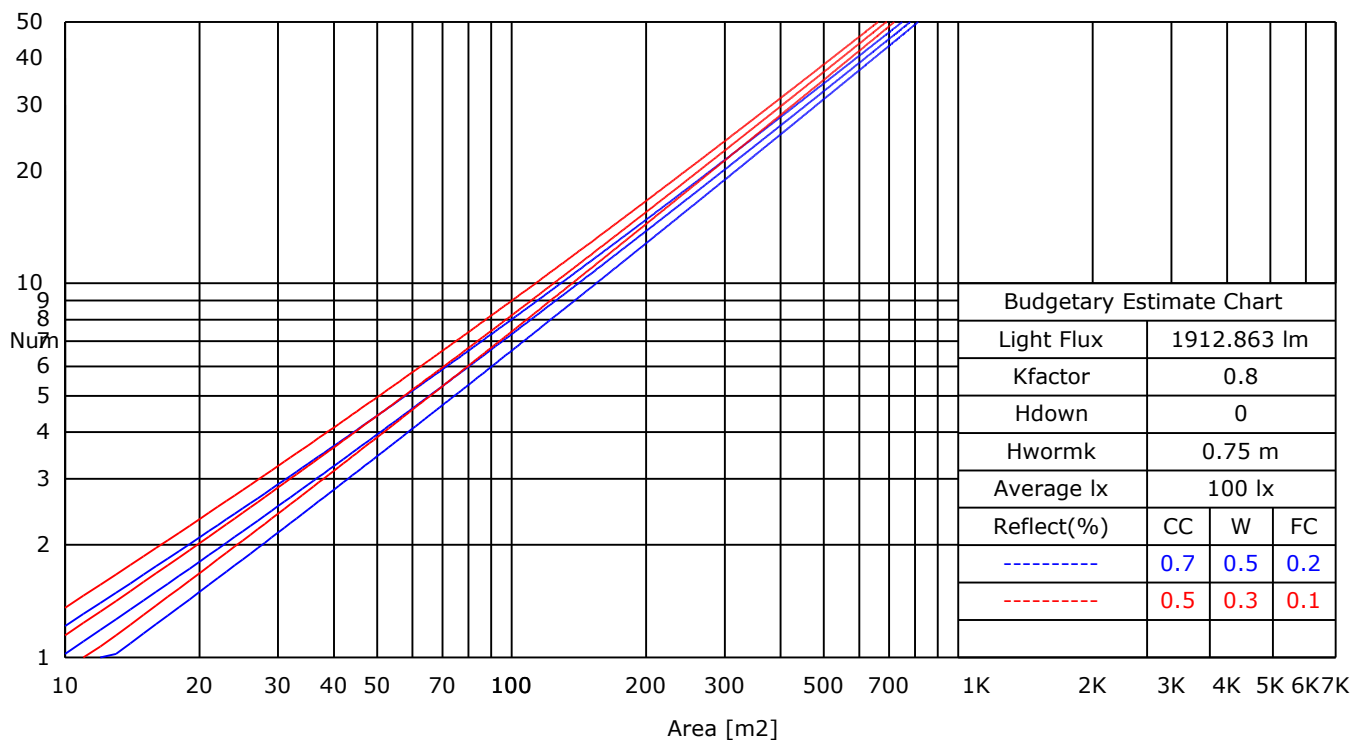
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UTILIZATION FACTORS TABLE

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	1.05	1.03	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	0.95	0.93	0.92	0.94	0.92	0.90	0.91	0.88	0.86	0.87	0.84	0.82	0.83	0.79	0.76	0.72
4	0.90	0.89	0.88	0.89	0.87	0.86	0.87	0.84	0.82	0.84	0.80	0.77	0.80	0.76	0.73	0.69
5	0.86	0.85	0.83	0.85	0.83	0.82	0.83	0.80	0.78	0.80	0.77	0.74	0.77	0.73	0.69	0.65
6	0.82	0.81	0.80	0.82	0.79	0.78	0.80	0.77	0.74	0.77	0.73	0.70	0.74	0.70	0.66	0.63
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	0.76	0.74	0.74	0.75	0.73	0.72	0.73	0.70	0.68	0.71	0.68	0.65	0.69	0.65	0.61	0.58
9	0.73	0.72	0.71	0.72	0.70	0.69	0.71	0.68	0.66	0.69	0.65	0.62	0.67	0.62	0.59	0.56
10	0.70	0.69	0.68	0.70	0.68	0.67	0.68	0.65	0.63	0.67	0.63	0.60	0.64	0.60	0.57	0.54

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



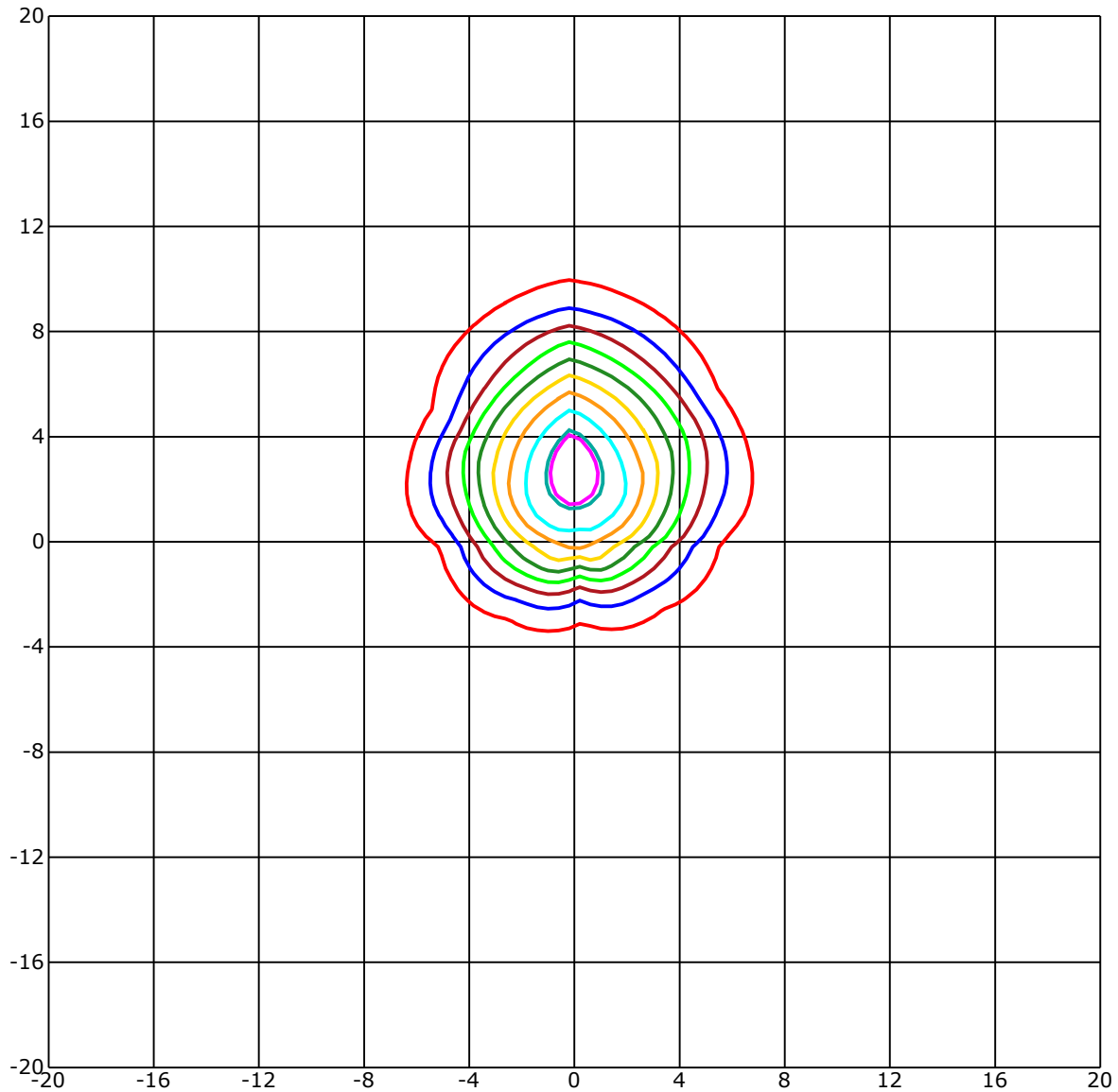
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Test Speed: High
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
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ISOLX DIAGRAM



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

27.381(92%Emax)	14.881(50%Emax)
26.785(90%Emax)	11.905(40%Emax)
23.809(80%Emax)	8.928(30%Emax)
20.833(70%Emax)	5.952(20%Emax)
17.857(60%Emax)	2.976(10%Emax)

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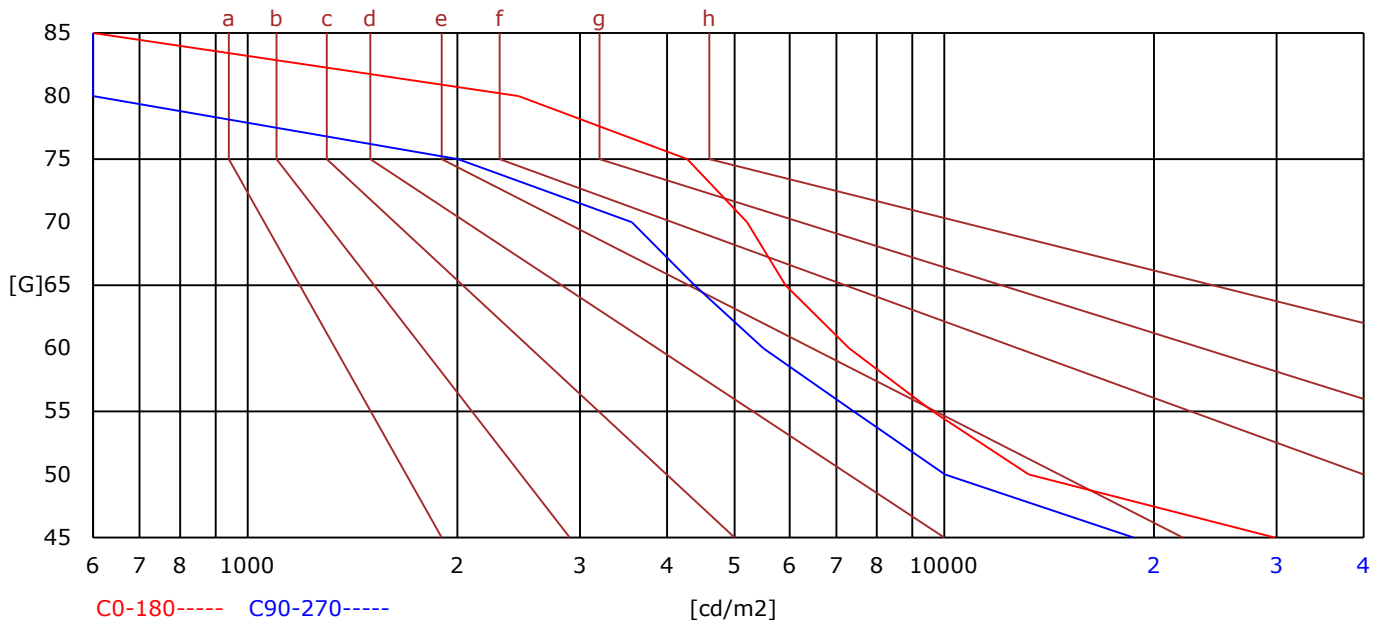
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Humidity: 60
Test Distance: 6.87 m
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	29789	13226	9630	7307	5915	5213	4277	2450	0
C90	18681	10026	7416	5500	4384	3561	2004	0	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



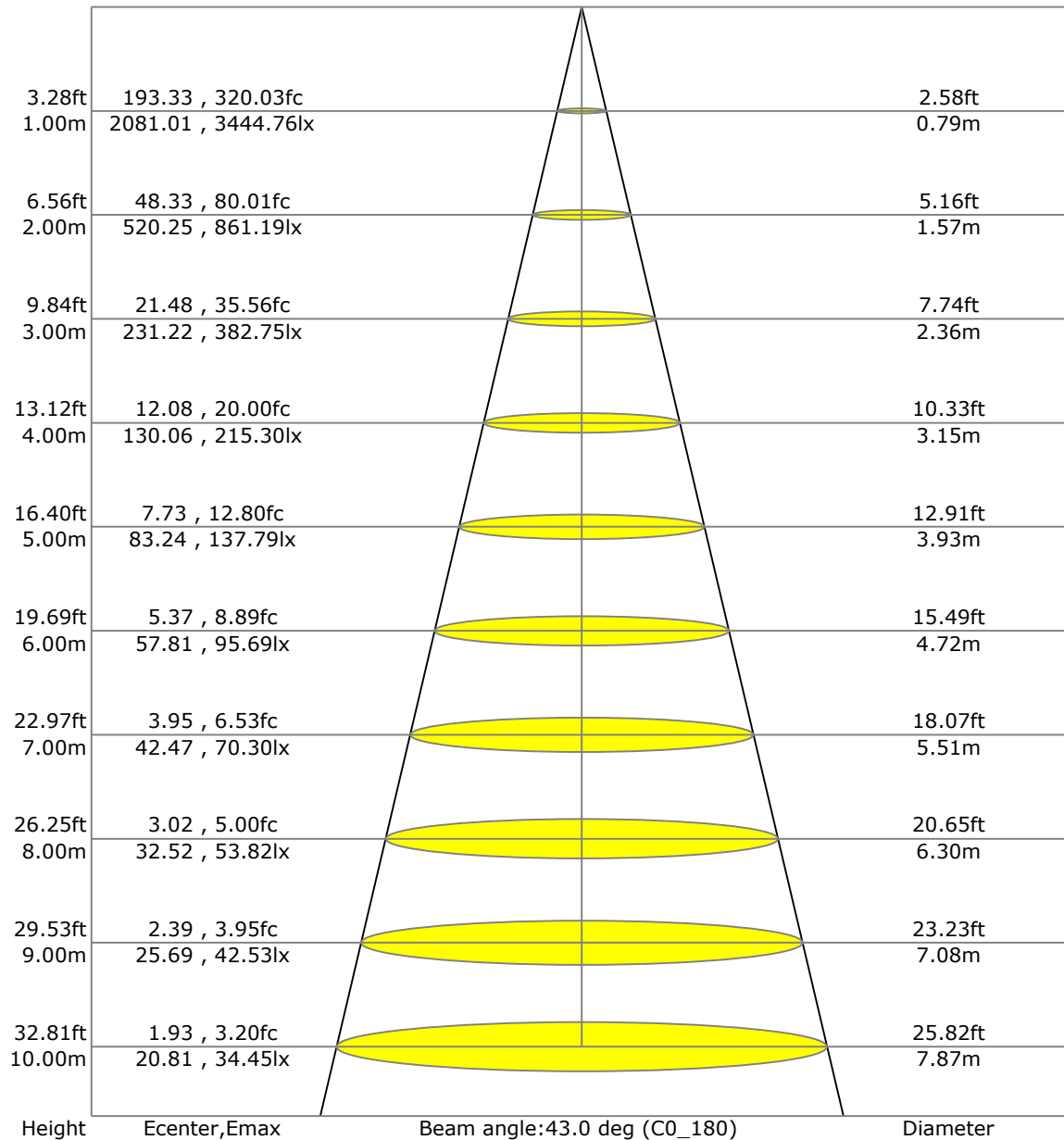
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Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/4/17 16:24:35

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: 2025/4/17 16:24:35

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	18.30	18.35	18.50	18.54	18.78	18.78	18.83	18.98	19.02	19.26
3H	18.27	18.32	18.48	18.52	18.76	18.75	18.80	18.96	19.00	19.24
4H	18.25	18.31	18.46	18.50	18.75	18.73	18.79	18.94	18.98	19.23
6H	18.24	18.29	18.45	18.49	18.74	18.72	18.77	18.93	18.97	19.22
8H	18.22	18.28	18.44	18.48	18.73	18.71	18.76	18.92	18.96	19.21
12H	18.21	18.27	18.44	18.47	18.73	18.69	18.75	18.92	18.95	19.21
4H 2H	18.37	18.42	18.58	18.62	18.87	18.81	18.86	19.02	19.06	19.30
3H	18.35	18.40	18.57	18.60	18.86	18.78	18.83	19.00	19.04	19.29
4H	18.33	18.38	18.56	18.59	18.85	18.76	18.81	18.99	19.02	19.28
6H	18.30	18.35	18.54	18.57	18.84	18.74	18.79	18.97	19.01	19.27
8H	18.29	18.34	18.53	18.56	18.83	18.72	18.77	18.97	19.00	19.26
12H	18.27	18.32	18.52	18.55	18.82	18.71	18.76	18.96	18.99	19.26
8H 4H	18.39	18.44	18.61	18.64	18.90	18.80	18.85	19.02	19.05	19.31
6H	18.32	18.37	18.58	18.60	18.88	18.72	18.77	18.98	19.01	19.28
8H	18.30	18.35	18.57	18.59	18.87	18.71	18.75	18.97	18.99	19.27
12H	18.29	18.33	18.56	18.58	18.86	18.69	18.73	18.96	18.98	19.26
12H 4H	18.35	18.39	18.60	18.63	18.90	18.74	18.79	18.99	19.02	19.29
6H	18.32	18.36	18.58	18.61	18.88	18.71	18.76	18.97	19.00	19.28

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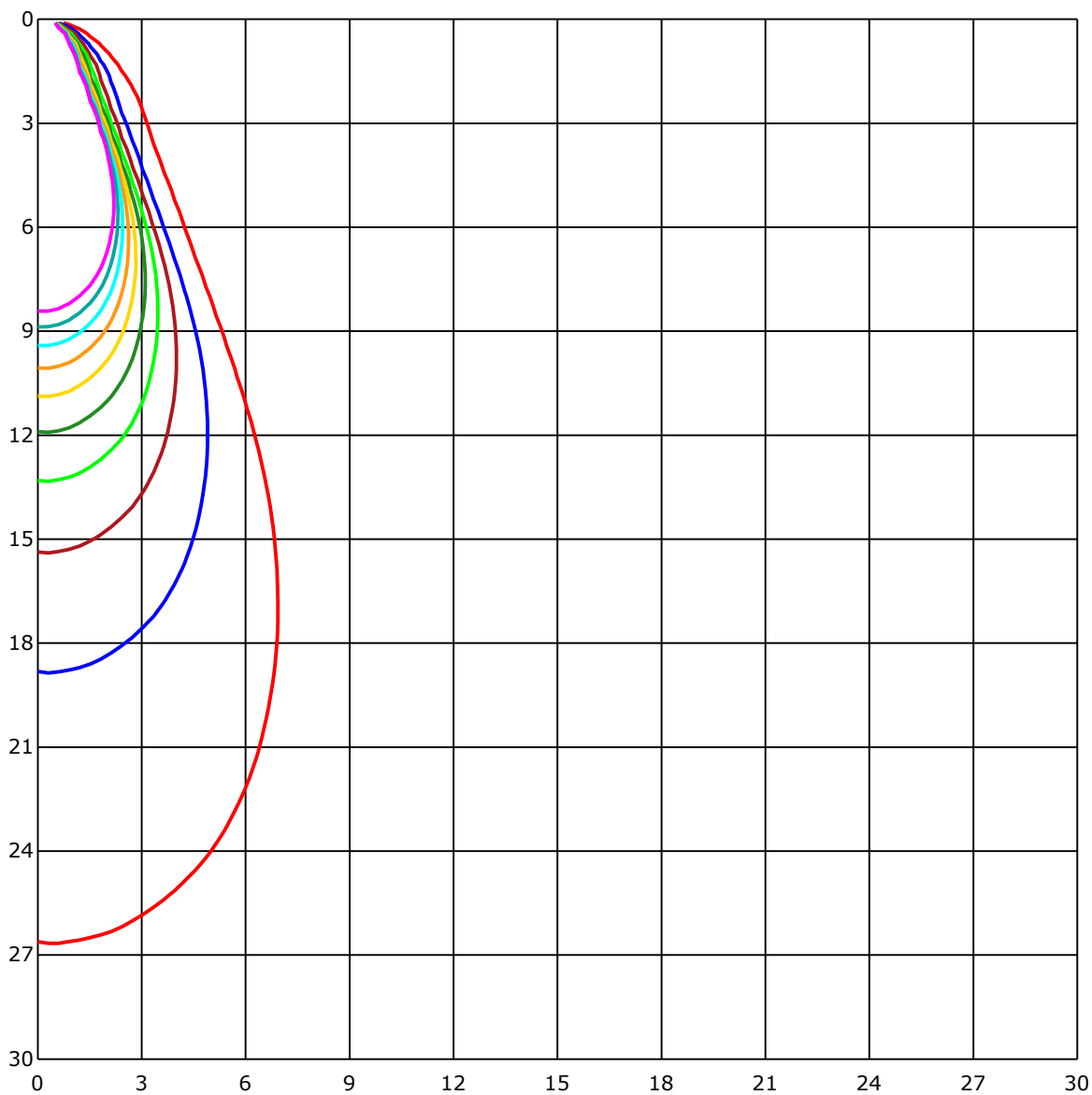
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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

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SPACE ISOLX DIAGRAM



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:

Report No.:

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	2081.01	2185.22	2034.94	2226.89	2081.01	2185.22	2034.94	2226.89	2081.01	
G1	2091.58	2251.53	2133.35	2282.54	2074.4	2118.86	1935.07	2164.26	2091.58	
G2	2083.84	2310.1	2234.44	2335.78	2059.96	2047.97	1834.36	2101.4	2083.84	
G3	2076.52	2369.0	2330.58	2383.68	2046.27	1977.83	1727.64	2036.74	2076.52	
G4	2064.16	2418.04	2430.07	2422.62	2024.56	1904.16	1616.31	1967.59	2064.16	
G5	2049.34	2469.63	2526.54	2461.74	1996.05	1826.14	1495.67	1893.3	2049.34	
G6	2020.41	2511.21	2619.43	2505.64	1967.03	1741.94	1372.63	1818.4	2020.41	
G7	1992.65	2555.67	2714.91	2531.08	1932.95	1648.59	1248.64	1727.74	1992.65	
G8	1958.77	2580.73	2808.07	2555.29	1894.3	1552.31	1126.45	1638.96	1958.77	
G9	1923.6	2612.21	2892.42	2570.72	1856.11	1448.33	1008.08	1543.81	1923.6	
G10	1882.07	2632.45	2980.34	2589.27	1807.12	1344.26	894.38	1445.26	1882.07	
G11	1842.47	2647.51	3054.49	2595.74	1754.4	1238.49	786.25	1344.07	1842.47	
G12	1790.98	2655.35	3131.99	2587.76	1698.71	1131.88	689.36	1244.25	1790.98	
G13	1738.17	2656.48	3189.28	2576.67	1638.87	1028.75	599.78	1141.27	1738.17	
G14	1676.53	2650.72	3250.45	2572.14	1576.61	922.79	521.71	1043.34	1676.53	
G15	1615.97	2643.45	3300.57	2546.65	1507.28	823.92	455.12	944.6	1615.97	
G16	1547.11	2625.33	3350.65	2521.78	1430.35	731.41	397.26	852.8	1547.11	
G17	1476.79	2604.14	3379.91	2489.4	1353.42	646.46	345.76	763.36	1476.79	
G18	1399.01	2575.58	3410.07	2458.16	1266.43	568.58	297.58	680.11	1399.01	
G19	1324.44	2546.46	3424.89	2414.55	1180.54	496.7	258.97	602.19	1324.44	
G20	1246.99	2500.78	3444.76	2372.73	1091.48	430.34	229.61	533.61	1246.99	
G21	1168.6	2458.53	3439.76	2321.47	999.49	371.44	206.72	472.35	1168.6	
G22	1083.88	2407.04	3432.68	2273.9	899.05	320.47	188.98	416.56	1083.88	
G23	1001.14	2355.13	3415.31	2216.6	792.81	279.5	174.68	363.23	1001.14	
G24	917.65	2296.46	3395.2	2160.49	683.74	247.64	163.4	318.44	917.65	
G25	833.31	2239.68	3357.92	2093.42	582.17	222.16	153.39	279.55	833.31	
G26	745.76	2177.9	3321.95	2026.59	491.6	202.62	144.94	250.66	745.76	
G27	656.79	2112.49	3279.48	1940.88	417.08	186.43	137.34	225.27	656.79	
G28	565.42	2040.79	3232.66	1841.77	355.72	173.07	131.44	205.83	565.42	
G29	480.61	1963.96	3176.12	1714.9	306.78	161.18	125.54	190.58	480.61	
G30	405.52	1879.9	3112.16	1571.14	266.71	150.84	120.73	177.46	405.52	
G31	344.11	1778.43	3032.21	1397.69	235.23	142.39	116.62	165.52	344.11	
G32	294.27	1660.72	2957.07	1216.78	208.04	134.51	113.32	155.66	294.27	
G33	254.01	1515.45	2857.91	1037.81	186.1	128.33	110.49	147.07	254.01	
G34	221.87	1340.82	2740.3	871.82	166.75	122.76	107.94	139.84	221.87	
G35	196.91	1150.38	2624.95	727.78	150.51	118.51	104.87	133.28	196.91	
G36	177.04	960.74	2508.47	610.21	136.4	114.26	102.42	128.0	177.04	

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	159.1	789.7	2371.13	514.73	124.41	110.68	99.82	123.14	159.1	
G38	143.67	645.98	2205.75	435.49	114.12	107.28	97.46	118.84	143.67	
G39	130.97	531.2	2004.17	366.96	105.82	104.21	94.87	115.11	130.97	
G40	119.55	441.43	1785.08	306.92	99.3	101.43	92.55	112.09	119.55	
G41	110.39	369.27	1549.66	252.08	93.87	98.74	89.82	108.93	110.39	
G42	101.71	308.15	1320.85	204.74	89.11	95.57	87.08	105.91	101.71	
G43	95.1	256.04	1119.46	164.48	85.1	92.65	83.73	102.89	95.1	
G44	89.72	209.65	950.36	132.2	81.23	89.72	80.94	99.82	89.72	
G45	85.43	170.62	810.13	107.0	77.87	86.98	79.1	96.94	85.43	
G46	81.18	138.29	685.11	88.73	74.48	83.68	77.36	94.16	81.18	
G47	77.83	112.47	567.17	75.18	71.36	80.19	75.7	91.37	77.83	
G48	74.81	93.12	457.2	64.8	68.11	77.12	74.15	88.31	74.81	
G49	71.88	79.05	358.84	57.44	65.18	74.81	72.78	84.72	71.88	
G50	68.81	68.86	276.24	52.2	61.92	72.68	71.64	81.6	68.81	
G51	65.93	61.83	210.5	47.34	58.19	70.75	69.9	79.34	65.93	
G52	63.06	56.45	160.94	43.75	54.98	68.81	68.67	77.31	63.06	
G53	60.22	51.78	124.32	40.49	52.34	66.83	67.44	75.23	60.22	
G54	57.25	47.57	98.36	37.57	49.84	64.9	66.26	73.77	57.25	
G55	54.28	44.74	80.38	34.45	47.2	63.24	65.27	71.36	54.28	
G56	50.88	41.44	68.15	31.15	44.88	61.5	64.23	69.71	50.88	
G57	48.19	38.32	59.94	28.37	43.14	60.03	62.96	67.87	48.19	
G58	46.21	35.49	53.99	26.43	41.01	58.24	61.69	66.22	46.21	
G59	44.08	32.33	48.94	24.21	39.13	56.68	59.61	64.38	44.08	
G60	41.96	29.59	44.98	22.28	37.38	55.36	57.53	62.96	41.96	
G61	40.21	27.52	40.64	20.48	35.73	53.9	55.27	61.5	40.21	
G62	38.51	25.53	37.19	19.07	34.36	51.96	53.0	60.36	38.51	
G63	36.77	23.65	34.17	17.46	32.99	50.36	50.36	58.62	36.77	
G64	35.02	21.71	31.76	16.09	31.57	48.14	47.72	57.01	35.02	
G65	33.42	20.25	29.21	15.01	30.11	46.25	45.31	55.36	33.42	
G66	32.0	18.6	26.9	14.16	28.55	44.08	43.19	53.57	32.0	
G67	30.82	17.42	24.73	13.07	27.19	41.96	40.78	51.44	30.82	
G68	29.55	16.33	23.08	11.94	25.58	39.88	38.65	49.04	29.55	
G69	28.13	15.34	21.43	10.86	23.88	37.76	36.62	46.96	28.13	
G70	26.71	14.44	20.29	9.86	22.37	35.87	34.41	44.79	26.71	
G71	25.3	13.36	19.07	8.59	20.81	33.89	32.38	42.67	25.3	
G72	23.98	12.27	17.84	7.41	19.11	31.95	30.54	40.45	23.98	
G73	22.65	11.33	16.47	6.23	17.7	29.92	28.51	38.42	22.65	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/4/17 16:24:35

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]

Remarks: