

Report No.:

Test Time: 2025/8/1 16:00:24

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP104SCT095H124-3F-EB-38°
Lamp Type:
Luminous Width: 90 mm
Luminous Length: 280 mm
Luminous Height: 70 mm

Voltage(V): 219.70 V
Current(A): 0.3420 A
Power(W): 72.78 W
Power Factor: 0.9660
Lamp Luminous Flux: 4536.97

Photometric Results

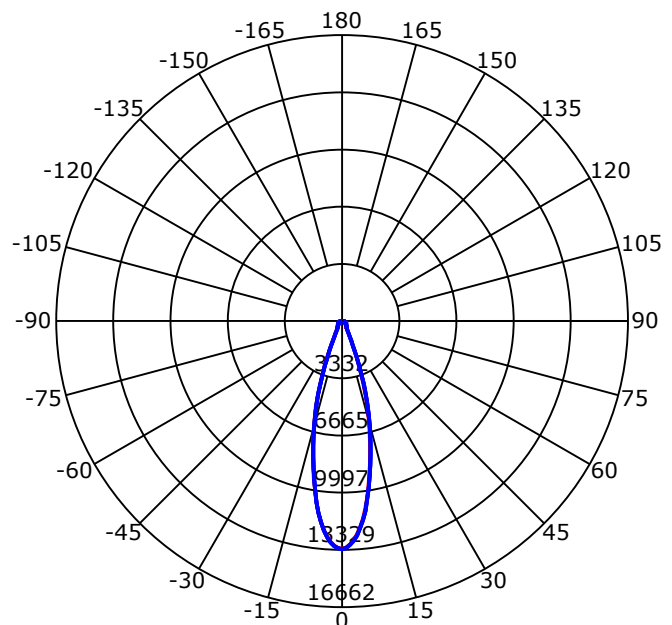
CIE Class: Direct
Luminaire Luminous Flux: 4536.966 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 62.34 lm/W
Beam Angle(50%) C0-180,C90-270: 28.6,28.6
Field Angle(10%) C0-180,C90-270: 50.0,49.6
S/MH C0-180,C90-270: 0.499,0.499

Max. Intensity: 13329.49 cd
Max.Intensity Angle: C=315 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 13248.22 cd
Effective Luminous Flux: 3197.62 lm
ERP(ϕ use)(120deg): 4245.40 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



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

C0-180 — C90-270 —

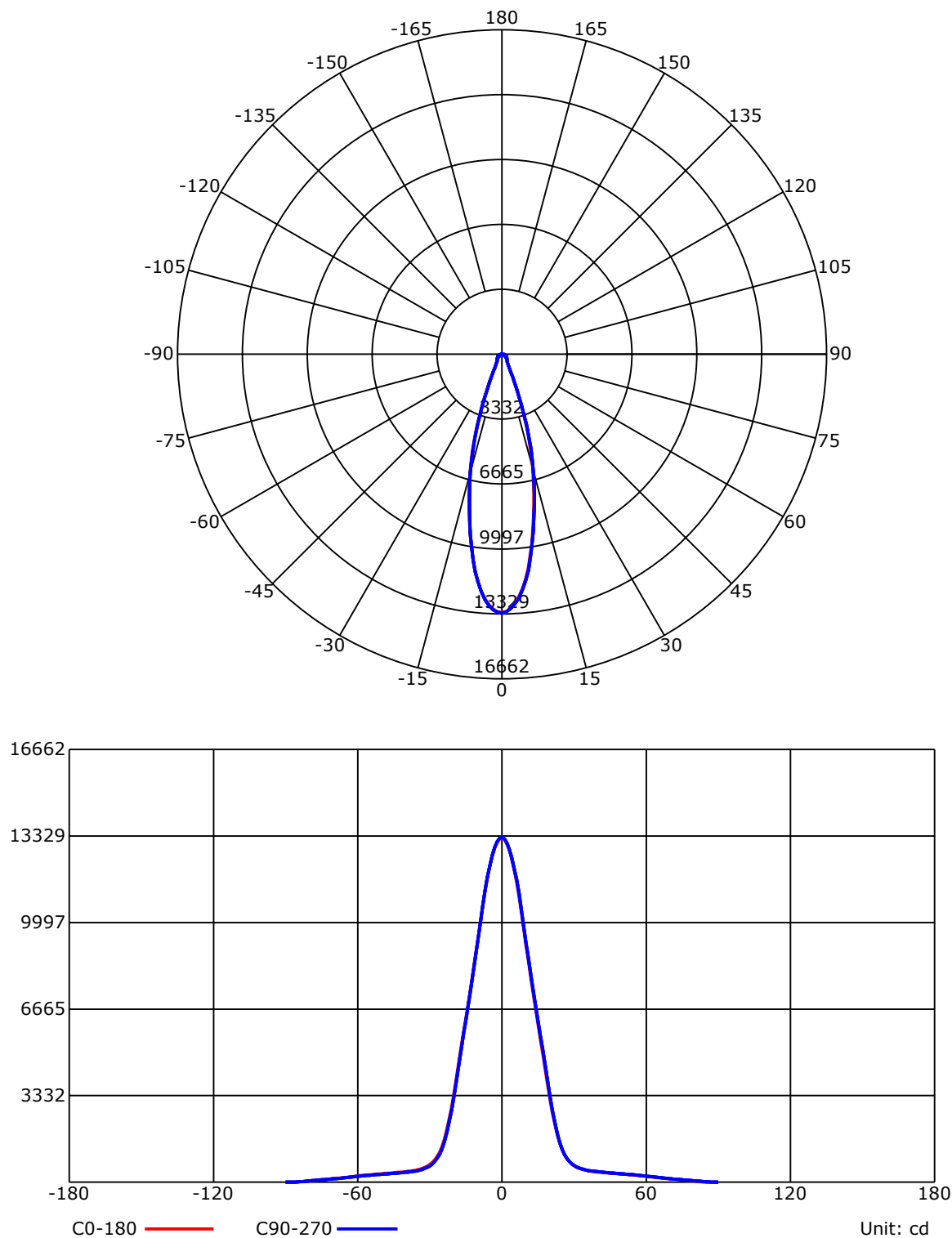
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/8/1 16:00:24

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 16:00:24

Luminous Intensity Distribution Curve



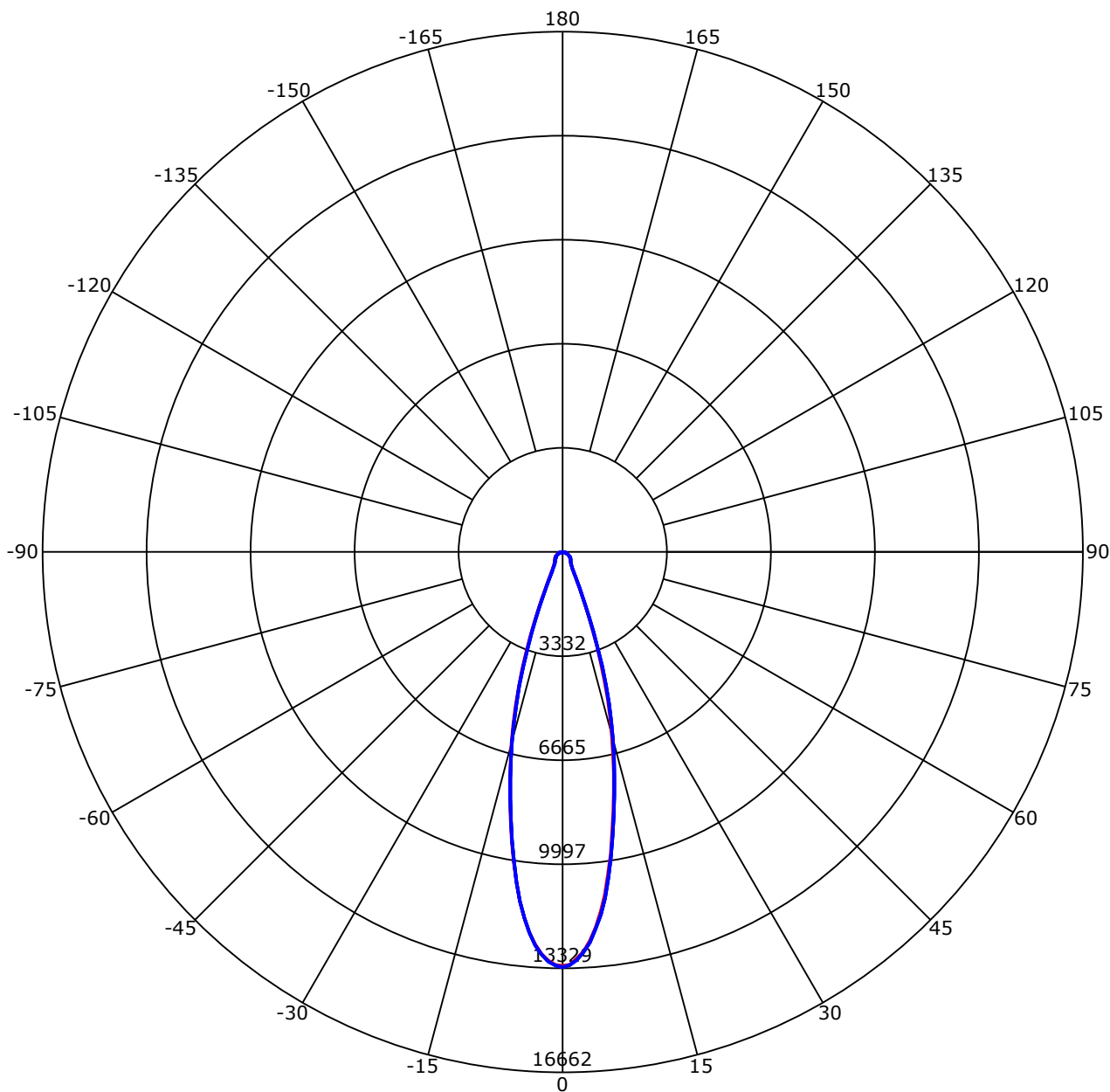
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/8/1 16:00:24

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 16:00:24

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 16:00:24

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

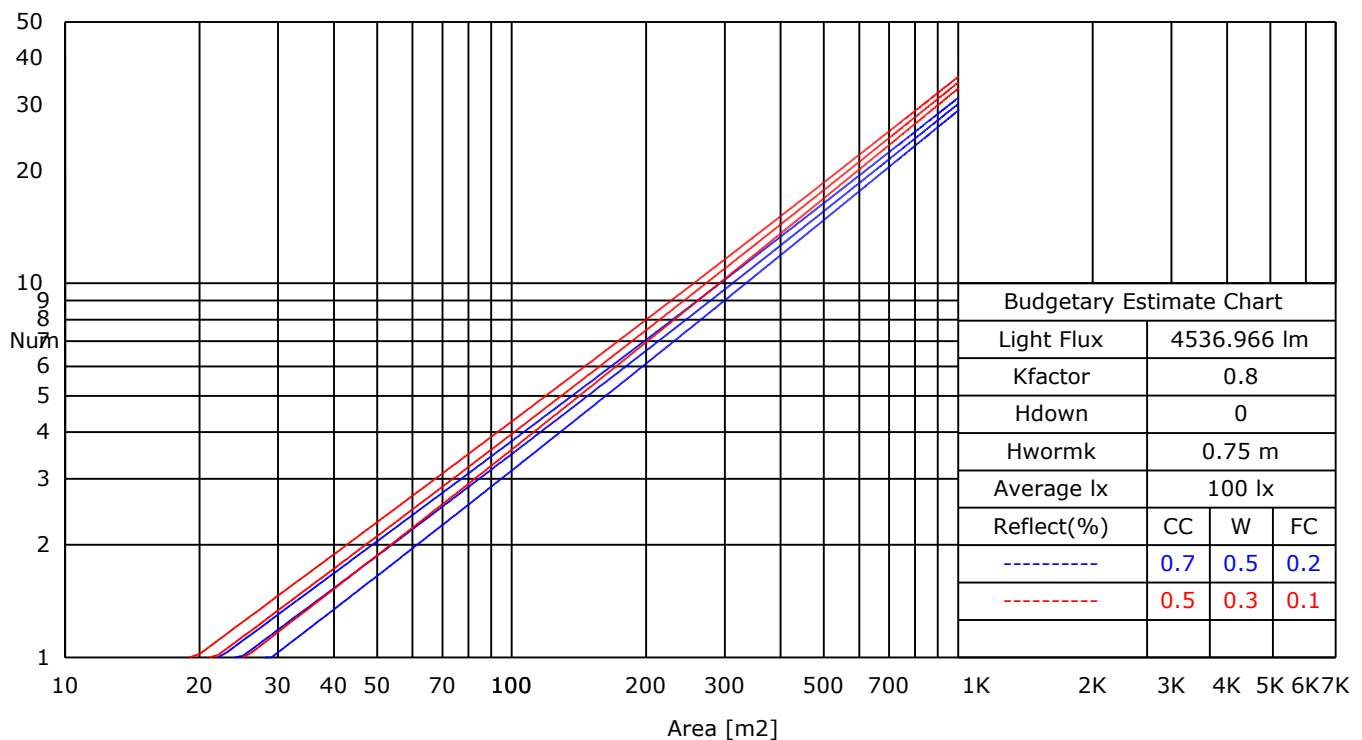
Report No.:

Test Time: 2025/8/1 16:00:24

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	0.93	0.91	0.88	0.93	0.89	0.87	0.90	0.86	0.83	0.86	0.82	0.79	0.80	0.77	0.73	0.68
2	0.88	0.85	0.83	0.87	0.84	0.82	0.85	0.81	0.78	0.82	0.78	0.74	0.77	0.73	0.69	0.65
3	0.83	0.81	0.79	0.83	0.80	0.77	0.81	0.77	0.74	0.78	0.74	0.70	0.74	0.70	0.66	0.62
4	0.79	0.77	0.75	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	0.73	0.76	0.73	0.71	0.74	0.70	0.68	0.72	0.68	0.64	0.70	0.65	0.61	0.57
6	0.73	0.71	0.70	0.73	0.70	0.68	0.72	0.68	0.65	0.70	0.65	0.62	0.67	0.62	0.59	0.55
7	0.71	0.69	0.68	0.70	0.68	0.66	0.69	0.66	0.63	0.68	0.63	0.60	0.65	0.61	0.57	0.53
8	0.69	0.67	0.66	0.68	0.66	0.64	0.67	0.64	0.61	0.66	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	0.54	0.51
10	0.65	0.64	0.63	0.65	0.63	0.61	0.64	0.61	0.59	0.62	0.58	0.56	0.61	0.56	0.52	0.49

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



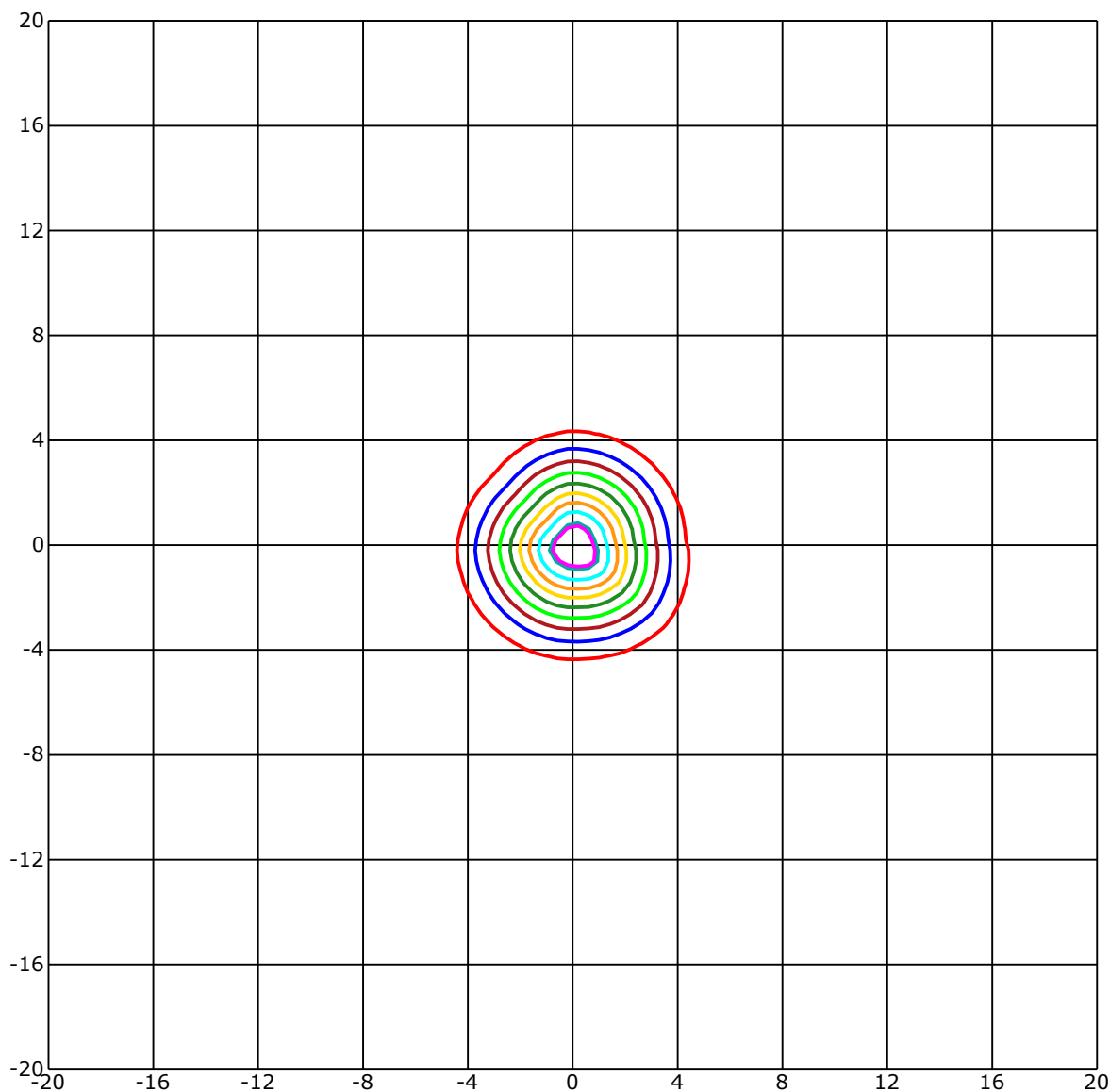
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/8/1 16:00:24

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 16:00:24

ISOLX DIAGRAM



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

122.407(92%Emax)	66.526(50%Emax)
119.746(90%Emax)	53.221(40%Emax)
106.441(80%Emax)	39.915(30%Emax)
93.136(70%Emax)	26.61(20%Emax)
79.831(60%Emax)	13.305(10%Emax)

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/8/1 16:00:24

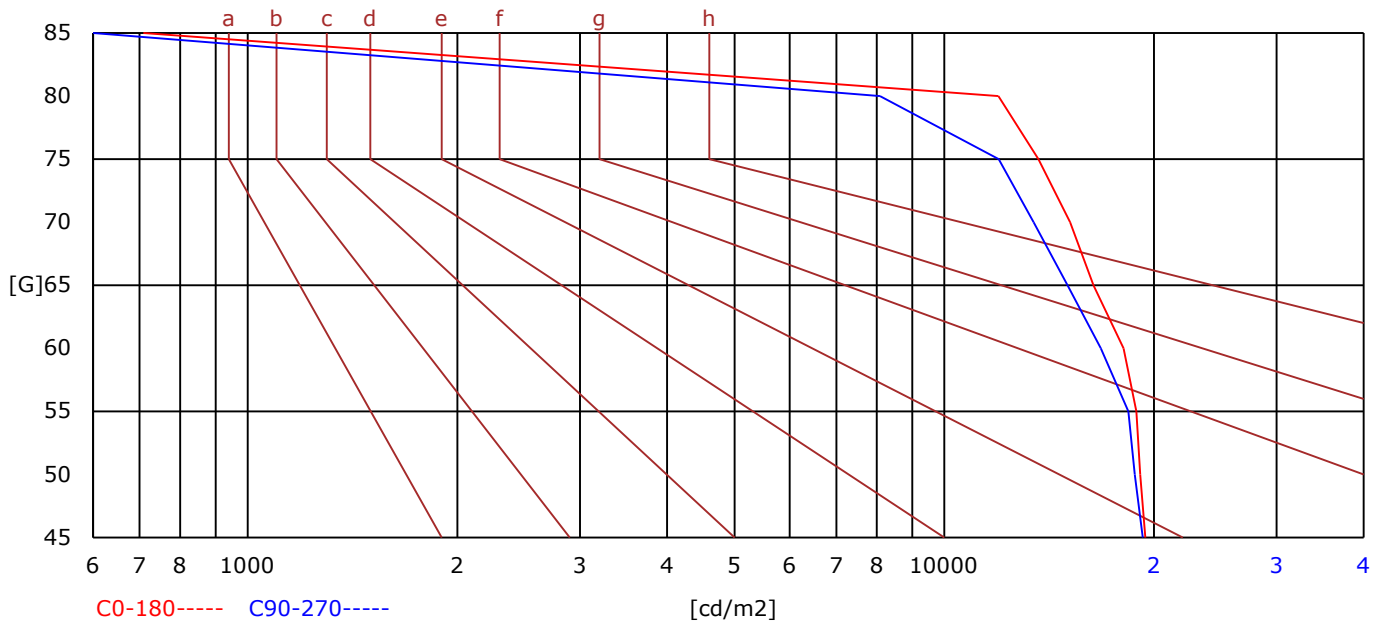
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

Report No.:

Test Time: 2025/8/1 16:00:24

BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	19444	19114	18860	18077	16379	15152	13648	11961	709
C90	19266	18764	18374	16770	15032	13438	11969	8089	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



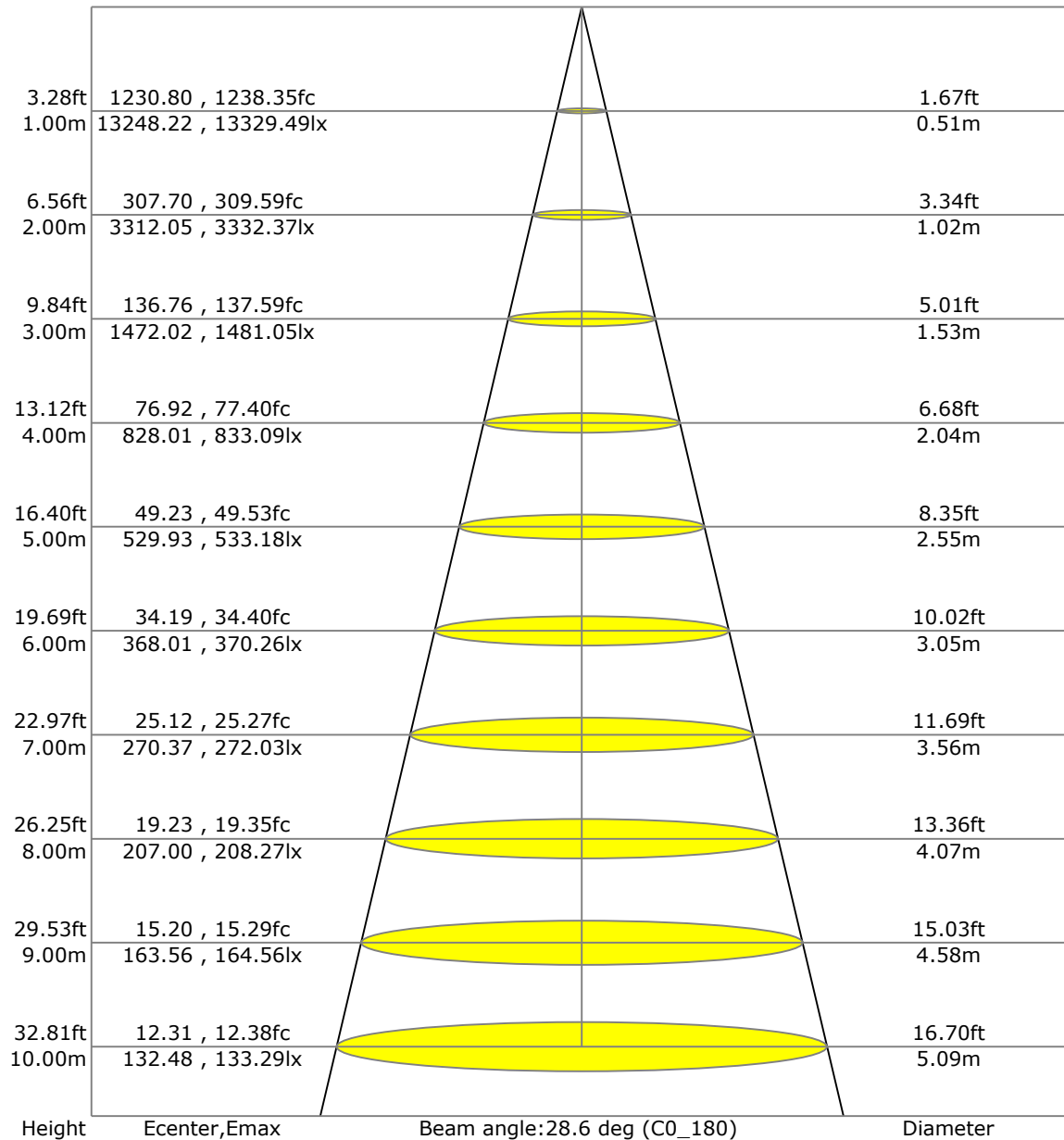
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/8/1 16:00:24

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 16:00:24

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 16:00:24

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 16:00:24

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	10.69	10.75	10.89	10.94	11.18	10.75	10.81	10.95	10.99	11.24
3H	10.84	10.90	11.04	11.09	11.34	10.89	10.95	11.09	11.14	11.39
4H	10.85	10.91	11.06	11.11	11.36	10.90	10.96	11.11	11.16	11.41
6H	10.84	10.91	11.06	11.11	11.36	10.89	10.95	11.11	11.15	11.40
8H	10.83	10.90	11.05	11.10	11.35	10.88	10.94	11.10	11.15	11.40
12H	10.82	10.89	11.05	11.09	11.35	10.87	10.93	11.09	11.14	11.39
4H 2H	12.63	12.69	12.84	12.89	13.14	12.73	12.80	12.95	12.99	13.24
3H	12.93	12.99	13.15	13.20	13.45	13.03	13.09	13.25	13.30	13.55
4H	13.00	13.06	13.23	13.27	13.53	13.09	13.15	13.32	13.36	13.62
6H	13.01	13.07	13.25	13.29	13.56	13.10	13.16	13.34	13.38	13.64
8H	13.00	13.06	13.24	13.29	13.55	13.09	13.15	13.33	13.37	13.64
12H	12.99	13.04	13.24	13.28	13.55	13.07	13.13	13.32	13.36	13.63
8H 4H	12.95	13.01	13.17	13.21	13.47	13.14	13.20	13.36	13.41	13.66
6H	13.48	13.53	13.73	13.77	14.04	13.67	13.73	13.93	13.97	14.24
8H	13.47	13.52	13.73	13.77	14.05	13.66	13.72	13.93	13.96	14.24
12H	13.45	13.50	13.72	13.76	14.04	13.65	13.70	13.92	13.95	14.23
12H 4H	13.43	13.48	13.67	13.72	13.99	13.67	13.73	13.92	13.96	14.23
6H	13.46	13.52	13.73	13.76	14.04	13.71	13.76	13.97	14.01	14.29

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/8/1 16:00:24

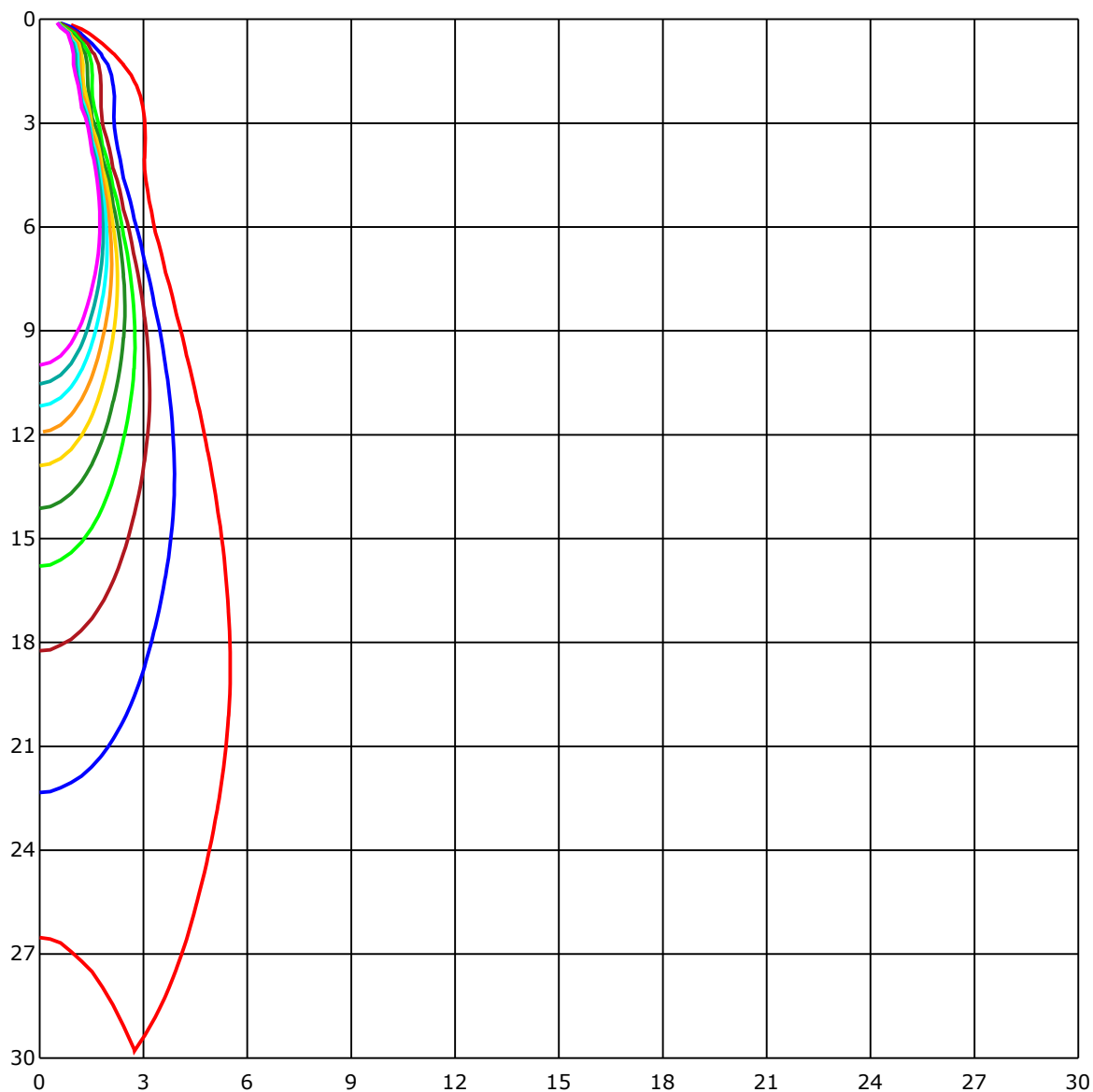
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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

Report No.:

Test Time: 2025/8/1 16:00:24

SPACE ISOLX DIAGRAM



Unit of illumination:lx

132.817	66.408
119.535	53.127
106.254	39.845
92.972	26.563
79.69	13.282

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/8/1 16:00:24

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 16:00:24

LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	13248.22	13210.22	13294.42	13188.42	13248.22	13210.22	13294.42	13188.42	13248.22	
G1	13213.34	13158.78	13220.09	12967.77	13223.06	13155.19	13238.12	13299.43	13213.34	
G2	13018.7	13020.63	13064.67	12672.23	13083.78	13043.24	13121.87	13329.49	13018.7	
G3	12806.93	12769.03	12823.07	12297.72	12888.1	12832.37	12910.24	13269.93	12806.93	
G4	12465.27	12489.76	12525.96	11848.5	12585.34	12535.92	12621.4	13101.29	12465.27	
G5	12071.17	12108.51	12115.16	11331.98	12240.33	12143.57	12231.12	12859.27	12071.17	
G6	11577.59	11623.79	11676.61	10773.59	11781.2	11702.52	11775.11	12515.63	11577.59	
G7	11044.74	11064.75	11161.41	10112.46	11273.83	11164.24	11254.9	12088.31	11044.74	
G8	10424.85	10479.03	10521.6	9464.68	10675.14	10593.39	10672.21	11607.42	10424.85	
G9	9792.22	9842.58	9867.83	8783.34	10036.94	9929.66	10009.47	11038.32	9792.22	
G10	9115.94	9205.19	9218.4	8155.15	9389.26	9278.58	9382.27	10405.36	9115.94	
G11	8477.74	8557.51	8580.68	7554.48	8743.75	8619.76	8688.01	9754.37	8477.74	
G12	7841.76	7942.2	7956.64	6959.23	8117.63	8003.65	8058.02	9098.85	7841.76	
G13	7255.2	7345.54	7357.29	6388.1	7501.95	7406.04	7444.18	8454.05	7255.2	
G14	6656.56	6765.2	6783.94	5819.14	6911.33	6824.91	6863.61	7837.0	6656.56	
G15	6084.2	6184.21	6205.17	5242.73	6345.91	6243.3	6283.23	7250.39	6084.2	
G16	5507.36	5628.8	5642.06	4650.74	5768.78	5662.68	5682.46	6670.81	5507.36	
G17	4905.55	5033.55	5057.71	4060.11	5199.4	5063.52	5080.42	6095.1	4905.55	
G18	4308.98	4433.06	4473.32	3478.98	4605.1	4479.46	4491.87	5516.37	4308.98	
G19	3736.91	3835.83	3880.67	2939.33	4021.7	3865.05	3890.44	4910.37	3736.91	
G20	3176.35	3259.75	3292.41	2443.34	3436.6	3295.29	3320.73	4309.64	3176.35	
G21	2667.52	2728.88	2760.59	2009.41	2902.99	2763.28	2779.61	3719.73	2667.52	
G22	2213.16	2267.76	2280.18	1648.97	2419.64	2287.68	2307.93	3156.06	2213.16	
G23	1819.2	1850.54	1869.38	1365.03	2003.79	1884.1	1885.66	2644.25	1819.2	
G24	1501.33	1523.04	1535.13	1141.6	1651.33	1552.68	1551.98	2194.61	1501.33	
G25	1255.77	1257.47	1272.38	969.38	1376.17	1293.9	1284.61	1813.73	1255.77	
G26	1055.04	1051.92	1068.63	839.21	1155.38	1090.15	1075.19	1507.99	1055.04	
G27	903.96	892.4	910.57	736.46	987.22	932.61	918.45	1267.43	903.96	
G28	785.64	775.45	794.98	660.43	856.29	809.38	795.27	1070.71	785.64	
G29	696.48	686.1	707.86	603.98	757.46	716.45	700.12	924.82	696.48	
G30	627.72	619.6	642.87	557.82	682.8	649.57	629.37	804.47	627.72	
G31	578.21	568.63	589.54	521.86	622.48	590.24	576.98	716.68	578.21	
G32	536.02	529.88	548.19	493.44	574.34	547.67	534.13	646.88	536.02	
G33	505.15	498.26	516.48	466.4	535.97	511.28	497.41	593.5	505.15	
G34	476.74	474.33	492.22	447.47	506.09	483.86	469.42	551.45	476.74	
G35	451.82	448.37	466.02	434.73	483.63	459.08	444.83	518.03	451.82	
G36	434.45	432.61	449.88	420.1	459.93	440.72	428.22	489.57	434.45	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/8/1 16:00:24

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 16:00:24

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	421.37	418.64	435.06	410.24	445.26	424.91	412.5	464.23	421.37	
G38	408.06	406.79	424.02	400.56	429.92	412.78	400.94	444.22	408.06	
G39	399.47	396.97	412.12	392.77	421.8	402.87	389.7	431.38	399.47	
G40	387.63	387.96	402.73	384.89	409.53	393.2	381.87	417.27	387.63	
G41	380.74	379.42	392.96	374.88	399.43	383.71	371.77	405.37	380.74	
G42	370.4	372.57	386.12	367.38	390.51	377.24	364.17	394.61	370.4	
G43	363.18	362.09	376.11	359.26	382.01	367.29	357.33	386.83	363.18	
G44	354.68	354.87	367.95	350.81	372.81	359.36	349.92	377.67	354.68	
G45	349.49	346.47	359.59	343.31	364.74	352.37	340.95	368.42	349.49	
G46	339.68	340.95	352.18	336.84	357.85	345.15	334.67	362.09	339.68	
G47	333.21	332.93	343.74	328.3	349.97	335.99	327.22	353.36	333.21	
G48	325.38	325.0	336.61	320.04	342.32	330.1	319.95	345.91	325.38	
G49	318.15	317.07	328.82	313.58	335.05	320.84	311.69	337.51	318.15	
G50	309.94	309.61	320.84	303.95	325.89	315.65	306.5	329.29	309.94	
G51	303.66	302.01	313.2	297.58	318.67	305.98	297.53	322.45	303.66	
G52	294.79	295.17	305.32	288.89	310.27	298.47	290.59	314.38	294.79	
G53	287.9	287.95	297.58	281.15	304.04	291.87	282.8	307.35	287.9	
G54	280.11	280.3	290.4	272.33	295.31	284.27	275.96	299.51	280.11	
G55	273.84	272.61	281.72	265.58	286.25	275.87	267.42	294.13	273.84	
G56	265.25	265.11	274.4	256.61	278.56	269.35	261.19	285.78	265.25	
G57	258.5	257.84	266.0	246.7	271.19	261.09	252.83	277.8	258.5	
G58	249.01	249.15	258.17	234.33	262.27	253.31	244.72	270.16	249.01	
G59	238.86	238.39	245.99	223.19	251.94	242.36	235.75	262.46	238.86	
G60	226.64	227.77	234.14	211.3	239.85	230.7	224.56	251.89	226.64	
G61	216.35	215.78	222.25	200.35	229.42	219.98	213.19	241.55	216.35	
G62	206.91	205.97	211.21	190.01	217.58	211.3	202.99	229.71	206.91	
G63	194.64	194.78	201.34	181.19	206.44	199.88	191.81	220.98	194.64	
G64	183.88	184.07	190.44	169.86	198.27	189.4	183.31	208.37	183.88	
G65	174.72	174.44	181.71	160.09	186.33	179.35	172.93	198.84	174.72	
G66	164.34	164.86	172.55	150.79	176.23	170.24	163.11	188.74	164.34	
G67	155.99	155.42	160.99	142.25	168.54	160.94	154.19	178.78	155.99	
G68	146.69	147.63	152.4	133.1	157.87	152.82	146.31	168.12	146.69	
G69	138.19	138.15	143.34	124.79	149.8	144.0	137.06	159.34	138.19	
G70	129.51	130.59	134.7	115.82	139.18	134.94	129.18	149.66	129.51	
G71	122.1	120.78	125.36	107.94	130.83	126.68	119.79	141.59	122.1	
G72	112.42	112.47	117.61	99.87	122.66	118.23	112.47	133.57	112.42	
G73	104.45	104.12	109.45	92.46	115.59	110.3	104.07	124.55	104.45	

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/8/1 16:00:24

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 16:00:24

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