

Report No.:

Test Time: 2025/7/19 15:44:30

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP104CT080-60°-8W
Lamp Type:
Luminous Width: 72 mm
Luminous Length: 72 mm
Luminous Height: 68 mm

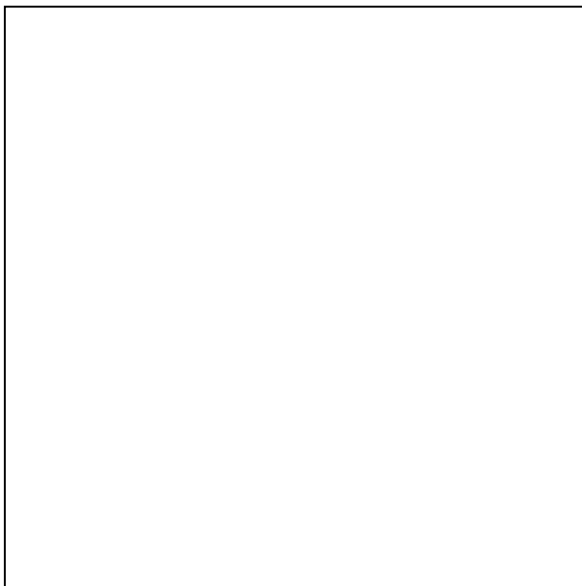
Voltage(V): 219.80 V
Current(A): 0.0420 A
Power(W): 8.67 W
Power Factor: 0.9320
Lamp Luminous Flux: 685.91

Photometric Results

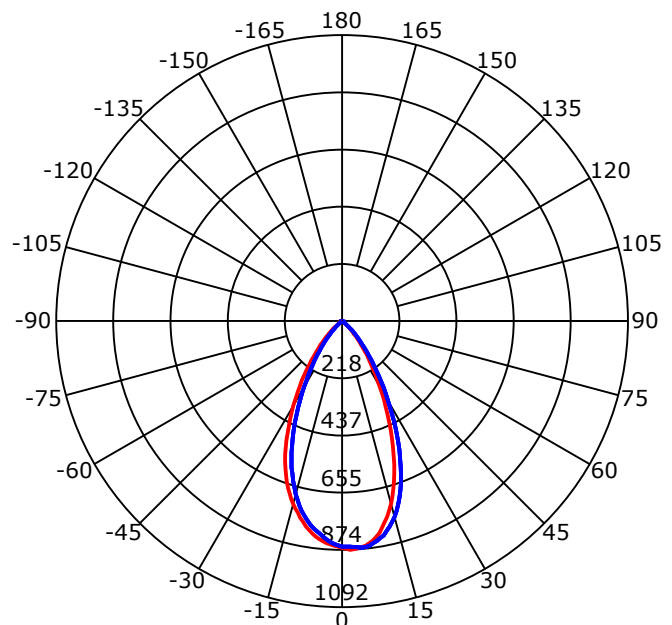
CIE Class: Direct
Luminaire Luminous Flux: 685.9121 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 79.08 lm/W
Beam Angle(50%) C0-180,C90-270: 52.0,52.0
Field Angle(10%) C0-180,C90-270: 86.0,84.4
S/MH C0-180,C90-270: 0.808,0.808

Max. Intensity: 873.95 cd
Max.Intensity Angle: C=0 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 866.11 cd
Effective Luminous Flux: 642.94 lm
ERP(ϕ use)(120deg): 681.65 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 52.0 deg,52.0 deg

C0-180 — C90-270

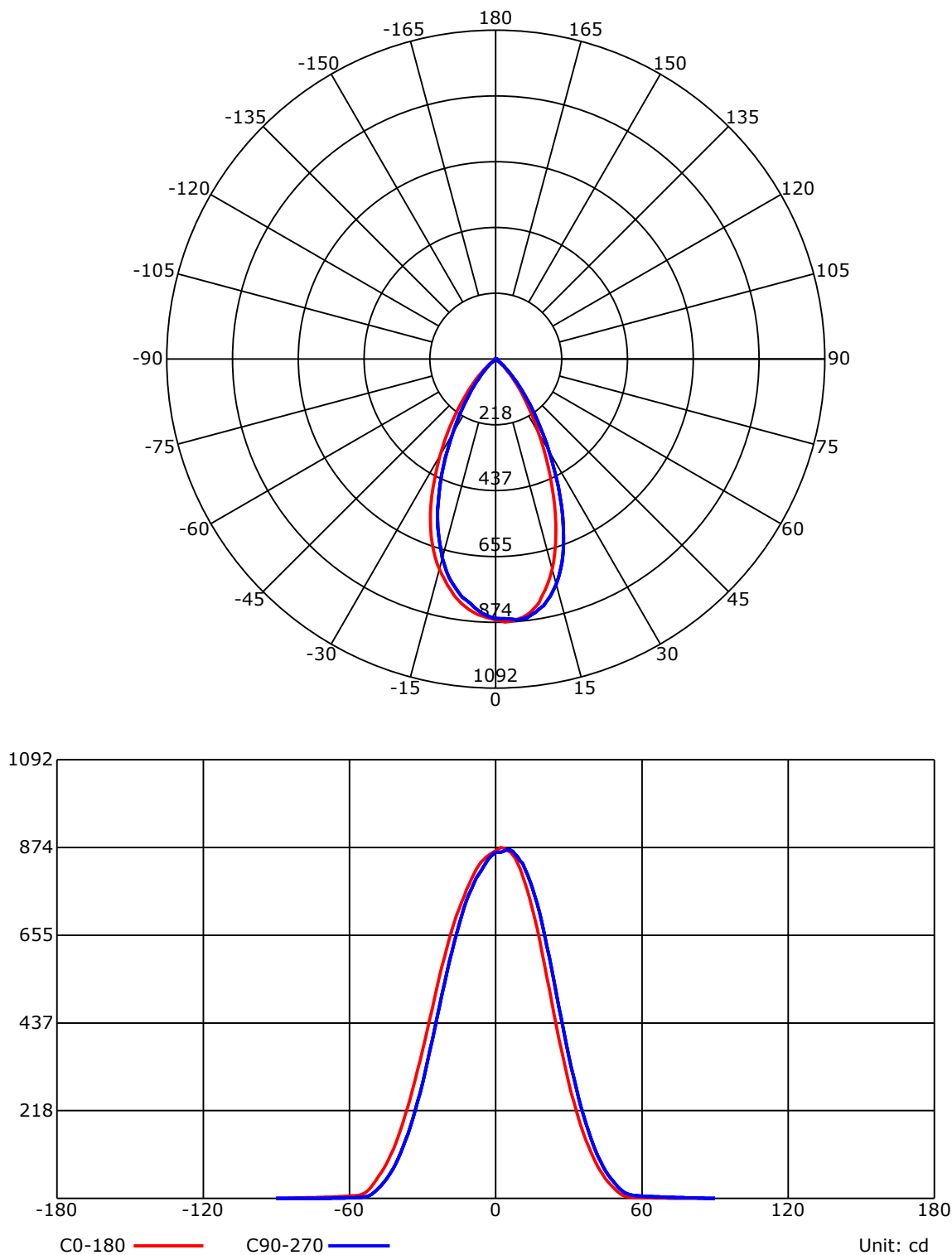
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/7/19 15:44:30

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: 2025/7/19 15:44:30

Luminous Intensity Distribution Curve



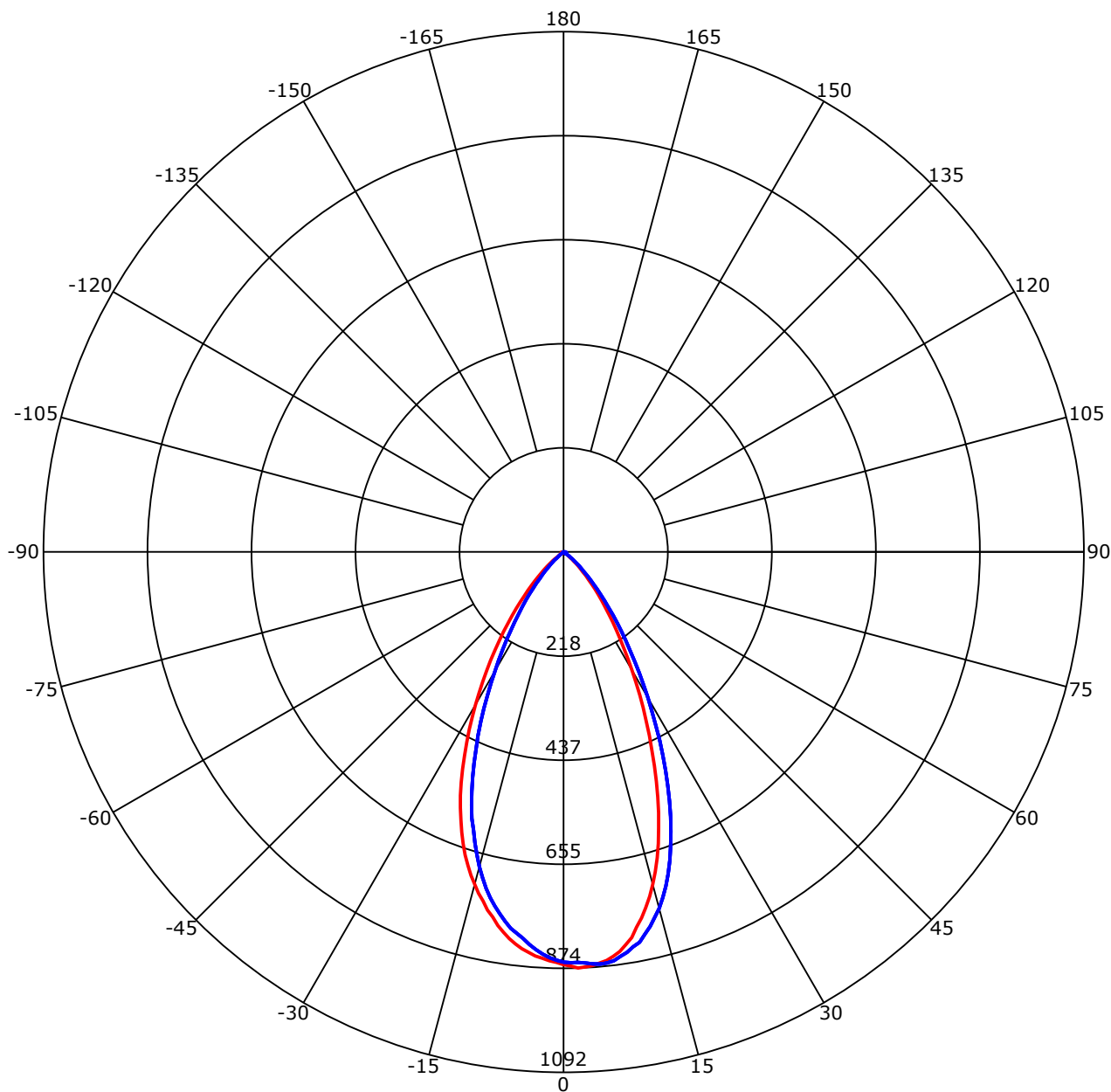
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/7/19 15:44:30

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: 2025/7/19 15:44:30

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

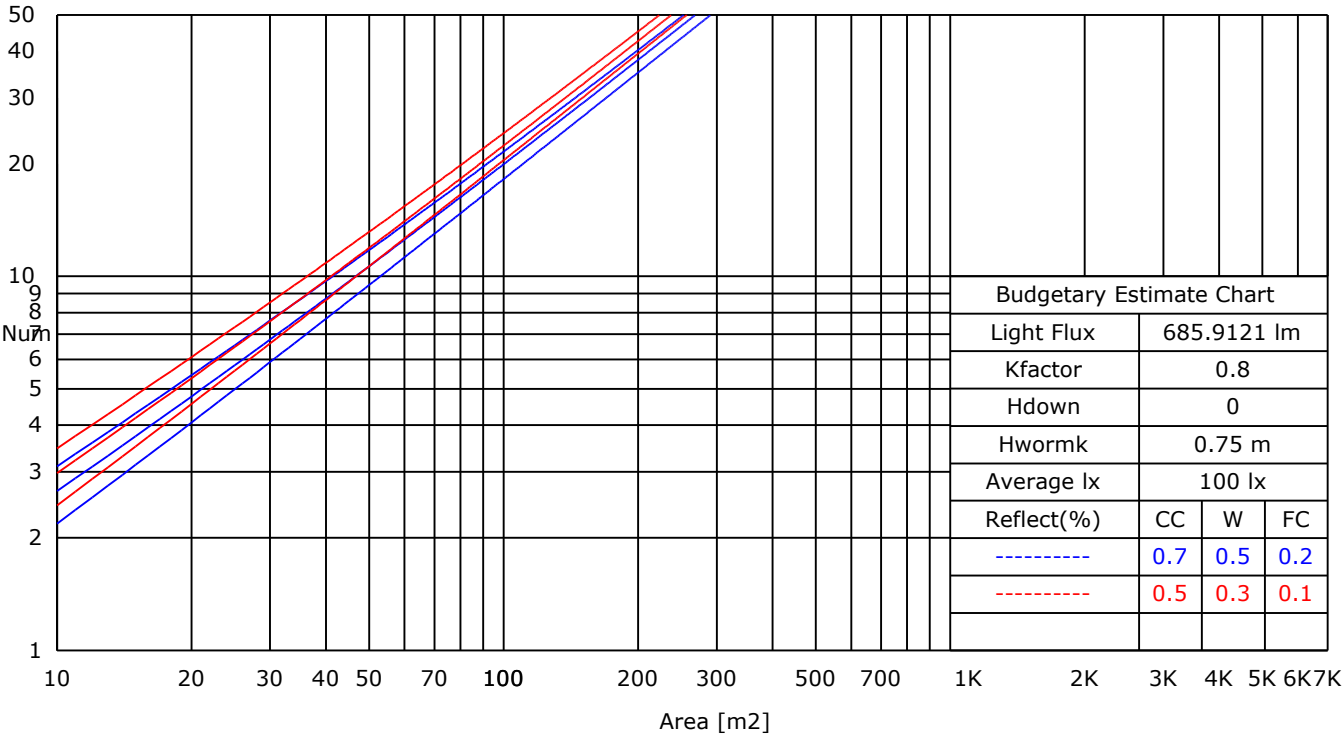
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UTILIZATION FACTORS TABLE

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	1.09	1.08	1.07	1.08	1.06	1.05	1.04	1.02	1.00	0.99	0.97	0.95	0.92	0.90	0.88	0.83
2	1.01	1.00	0.99	1.00	0.98	0.97	0.97	0.94	0.92	0.93	0.90	0.88	0.87	0.84	0.82	0.77
3	0.97	0.95	0.94	0.95	0.93	0.92	0.92	0.90	0.88	0.89	0.86	0.83	0.84	0.81	0.78	0.73
4	0.92	0.91	0.90	0.91	0.89	0.88	0.89	0.86	0.84	0.85	0.82	0.79	0.81	0.78	0.75	0.70
5	0.89	0.87	0.86	0.88	0.86	0.84	0.85	0.82	0.80	0.82	0.79	0.76	0.79	0.75	0.72	0.68
6	0.86	0.84	0.83	0.85	0.83	0.81	0.82	0.79	0.77	0.79	0.76	0.73	0.76	0.72	0.69	0.65
7	0.82	0.81	0.80	0.82	0.80	0.78	0.79	0.77	0.75	0.77	0.73	0.71	0.74	0.70	0.67	0.63
8	0.80	0.78	0.78	0.79	0.77	0.76	0.77	0.74	0.72	0.74	0.71	0.68	0.72	0.68	0.64	0.61
9	0.77	0.76	0.75	0.76	0.74	0.73	0.74	0.72	0.70	0.72	0.69	0.66	0.70	0.65	0.62	0.59
10	0.75	0.73	0.73	0.74	0.72	0.71	0.72	0.69	0.67	0.70	0.66	0.64	0.68	0.63	0.60	0.57

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



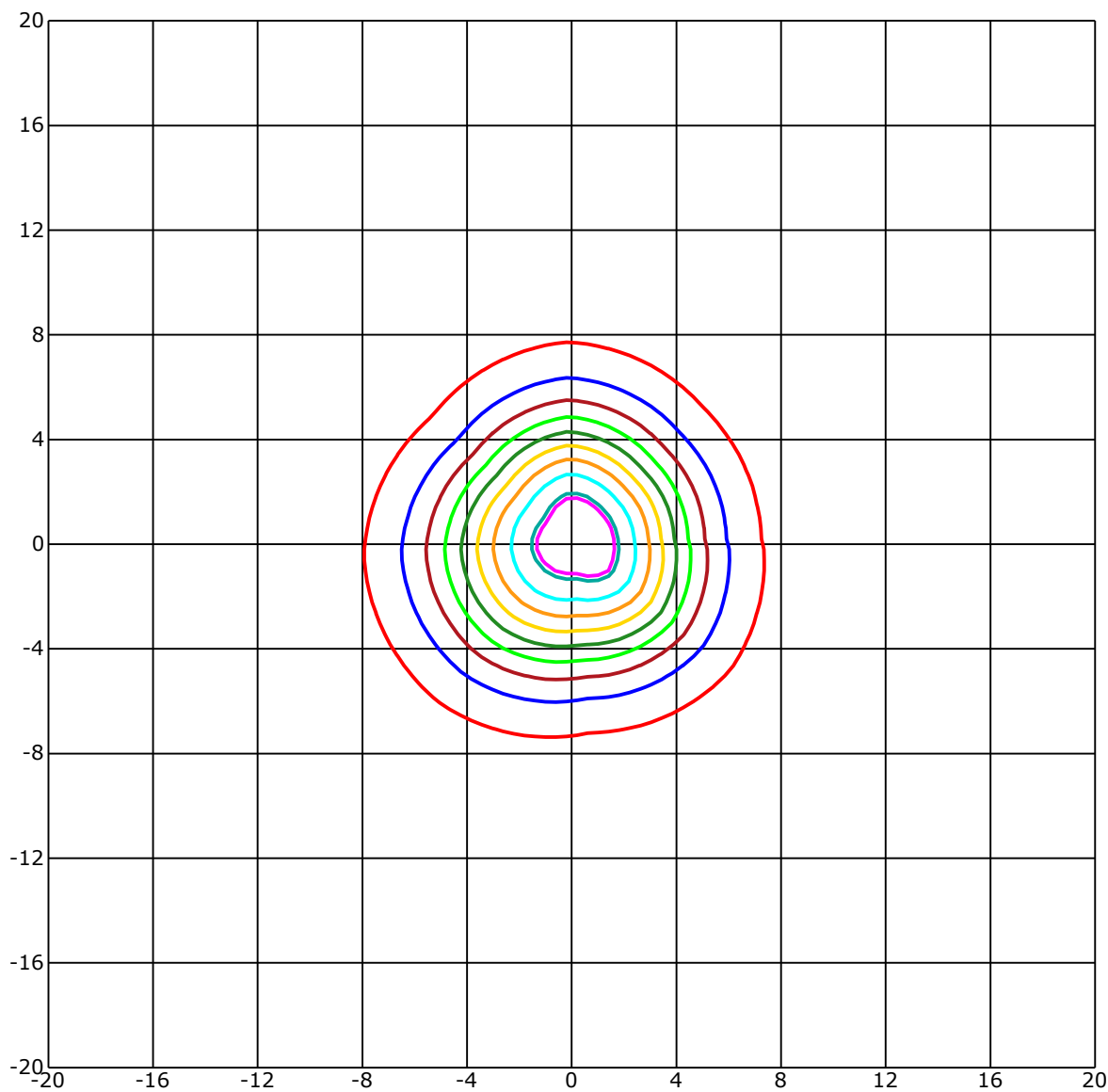
C Range: 0 - 360 Deg
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Test Speed: High
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Operators: QC01
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
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ISOLX DIAGRAM



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

8.026(92%Emax)	4.362(50%Emax)
7.851(90%Emax)	3.489(40%Emax)
6.979(80%Emax)	2.617(30%Emax)
6.106(70%Emax)	1.745(20%Emax)
5.234(60%Emax)	0.872(10%Emax)

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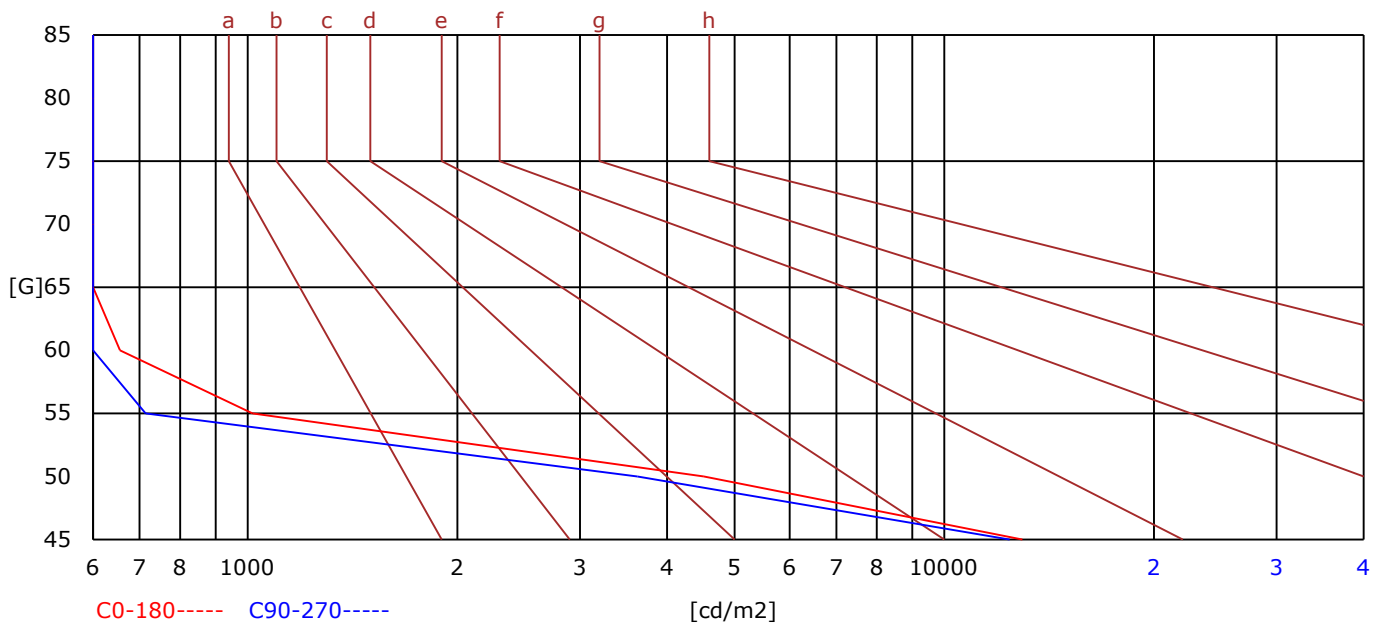
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Humidity: 60
Test Distance: 6.87 m
Remarks:

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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	12953	4518	1016	656	366	133	0	0	0
C90	12412	3626	714	346	129	0	0	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



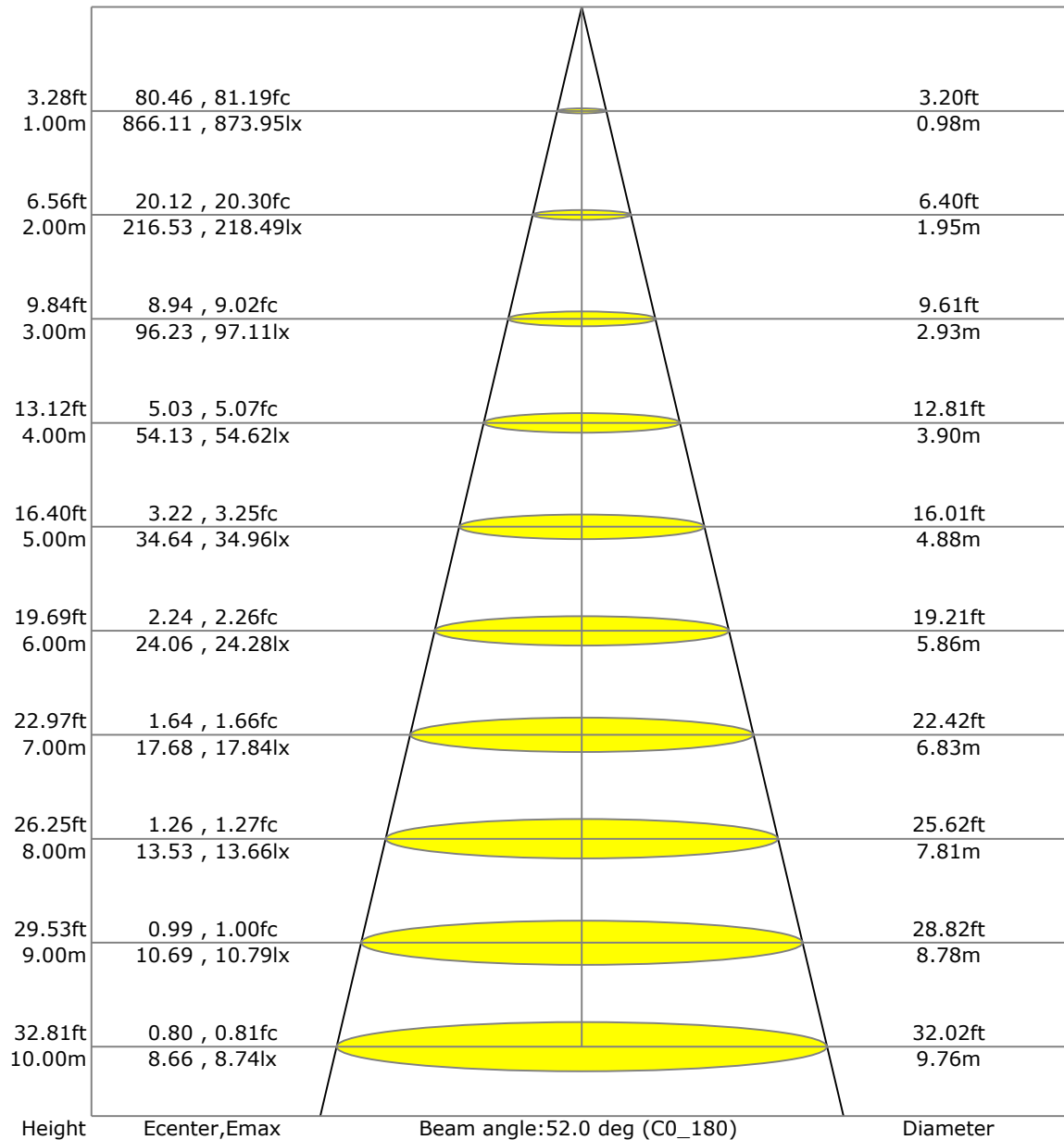
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Temperature: 25
Operators: QC01
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 25
 Operators: QC01
 Test Date: 2025/7/19 15:44:30

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	13.89	13.94	14.09	14.13	14.37	14.05	14.10	14.25	14.29	14.53
3H	13.86	13.91	14.07	14.11	14.35	14.02	14.08	14.23	14.27	14.52
4H	13.85	13.90	14.06	14.09	14.34	14.01	14.06	14.22	14.26	14.50
6H	13.83	13.88	14.04	14.08	14.33	13.99	14.04	14.21	14.24	14.49
8H	13.82	13.87	14.04	14.07	14.33	13.98	14.03	14.20	14.24	14.49
12H	13.81	13.86	14.03	14.07	14.32	13.97	14.02	14.19	14.23	14.48
4H 2H	13.85	13.90	14.06	14.09	14.34	14.05	14.10	14.26	14.30	14.54
3H	13.81	13.86	14.03	14.07	14.32	14.01	14.06	14.23	14.27	14.52
4H	13.79	13.84	14.02	14.05	14.31	13.99	14.04	14.22	14.25	14.51
6H	13.77	13.82	14.00	14.04	14.30	13.97	14.02	14.20	14.24	14.50
8H	13.75	13.80	14.00	14.03	14.29	13.95	14.00	14.20	14.23	14.49
12H	13.74	13.79	13.99	14.02	14.29	13.94	13.98	14.19	14.22	14.49
8H 4H	13.82	13.87	14.04	14.07	14.33	14.04	14.09	14.26	14.30	14.55
6H	13.72	13.77	13.98	14.01	14.28	13.95	13.99	14.21	14.23	14.51
8H	13.71	13.75	13.97	13.99	14.27	13.93	13.98	14.20	14.22	14.50
12H	13.69	13.73	13.96	13.98	14.26	13.92	13.95	14.18	14.21	14.49
12H 4H	13.74	13.78	13.99	14.02	14.29	13.98	14.02	14.22	14.25	14.52
6H	13.71	13.75	13.97	13.99	14.27	13.94	13.99	14.21	14.23	14.51

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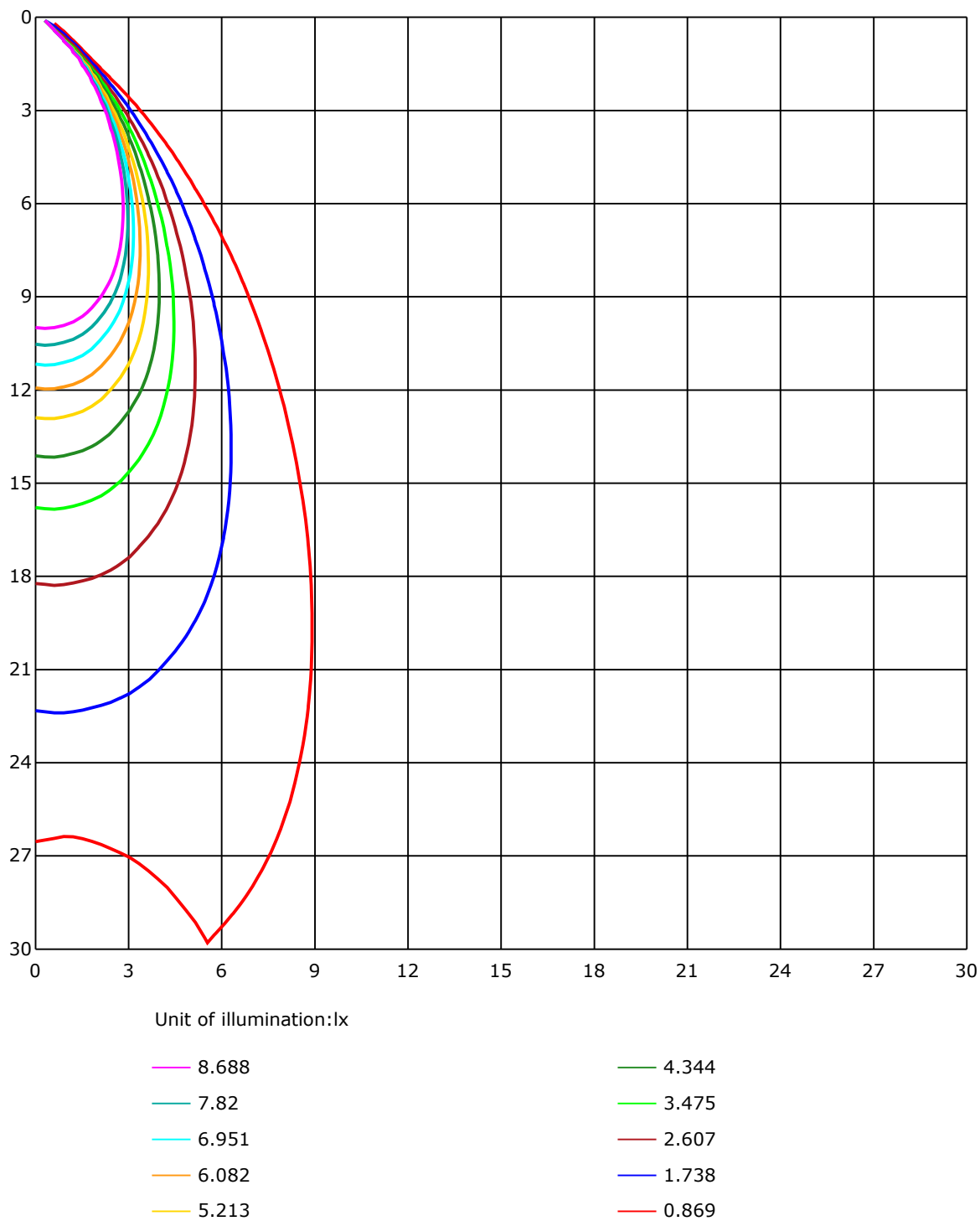
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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	866.11	864.69	861.15	857.95	866.11	864.69	861.15	857.95	866.11	
G1	869.37	868.85	862.38	856.15	861.91	861.86	857.24	861.3	869.37	
G2	873.95	870.5	862.05	856.2	858.7	858.13	851.9	863.99	873.95	
G3	872.43	870.83	864.22	849.83	854.08	853.23	845.34	866.11	872.43	
G4	869.98	870.64	866.54	843.6	850.39	846.19	836.33	867.48	869.98	
G5	865.92	867.01	868.61	837.13	843.83	838.41	827.31	866.16	865.92	
G6	862.38	860.82	867.29	829.91	837.46	826.65	815.56	861.2	862.38	
G7	854.88	853.56	864.41	820.19	828.82	817.03	806.64	855.26	854.88	
G8	846.76	844.92	856.72	811.22	819.62	807.35	797.91	849.03	846.76	
G9	834.49	836.14	850.77	799.33	808.15	798.48	784.93	841.8	834.49	
G10	822.08	822.03	841.24	787.39	796.16	785.59	770.96	835.1	822.08	
G11	802.63	808.91	834.49	771.72	780.87	773.56	756.99	825.8	802.63	
G12	785.12	789.42	820.05	758.08	768.7	760.11	742.12	813.25	785.12	
G13	766.15	769.17	806.69	739.2	751.56	745.99	724.8	797.77	766.15	
G14	745.43	747.22	790.69	718.86	738.49	729.1	704.22	781.16	745.43	
G15	722.4	725.46	774.36	697.76	721.88	712.72	684.02	763.46	722.4	
G16	698.42	700.5	754.63	675.81	706.4	695.59	660.28	745.0	698.42	
G17	671.23	674.92	733.16	651.84	687.61	678.31	637.91	723.53	671.23	
G18	643.48	646.27	710.55	626.44	668.87	657.26	613.51	701.96	643.48	
G19	612.47	617.29	685.3	598.69	647.78	637.82	591.61	677.56	612.47	
G20	582.93	585.95	657.36	571.41	626.26	615.07	565.18	651.79	582.93	
G21	551.26	554.37	628.52	542.72	602.47	592.84	538.09	624.18	551.26	
G22	519.87	521.53	599.12	514.3	579.34	569.05	509.54	596.99	519.87	
G23	487.78	491.41	568.53	485.28	555.32	545.08	481.27	568.01	487.78	
G24	456.06	460.97	538.09	456.44	529.41	518.69	453.18	536.16	456.06	
G25	425.34	429.78	506.33	426.66	502.51	494.29	425.06	505.48	425.34	
G26	396.12	399.62	474.38	398.01	475.27	466.82	396.5	475.08	396.12	
G27	367.48	371.39	443.65	369.22	447.8	441.72	368.75	444.08	367.48	
G28	340.57	343.12	412.55	341.8	421.52	415.1	341.0	413.26	340.57	
G29	312.96	315.65	382.34	314.8	395.23	388.05	313.91	383.14	312.96	
G30	287.05	289.08	353.69	289.27	370.59	362.43	288.14	355.16	287.05	
G31	262.65	264.77	326.74	264.16	345.1	337.13	264.44	327.55	262.65	
G32	240.33	241.13	299.75	241.13	320.84	312.49	241.79	301.16	240.33	
G33	218.8	219.28	274.78	219.32	296.87	289.51	220.17	276.1	218.8	
G34	198.13	198.6	249.81	199.03	274.31	266.71	199.03	252.41	198.13	
G35	179.4	180.1	227.3	180.01	251.09	244.62	179.91	229.38	179.4	
G36	161.7	161.79	207.29	161.41	230.46	222.96	161.46	208.37	161.7	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

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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	145.18	145.32	187.56	143.86	209.98	203.56	144.52	188.83	145.18	
G38	130.22	129.7	167.93	127.2	190.01	184.59	128.71	170.62	130.22	
G39	115.73	114.74	149.85	111.9	171.66	167.31	114.07	153.44	115.73	
G40	102.42	100.77	133.61	98.22	154.62	150.37	100.2	137.3	102.42	
G41	89.67	88.16	118.56	85.8	138.24	134.23	87.08	122.24	89.67	
G42	78.06	76.27	104.54	74.05	123.28	119.31	75.18	108.32	78.06	
G43	67.44	65.7	91.85	63.43	109.54	105.3	64.99	95.34	67.44	
G44	58.1	56.12	79.57	54.13	96.52	92.69	55.88	83.4	58.1	
G45	49.27	47.48	69.0	45.5	84.77	81.46	47.24	72.82	49.27	
G46	42.01	40.31	59.52	38.09	74.19	71.03	39.55	63.29	42.01	
G47	35.16	33.51	51.68	30.49	64.94	61.97	32.66	54.8	35.16	
G48	28.27	26.57	43.8	23.5	55.98	53.29	26.05	46.91	28.27	
G49	22.09	20.48	36.39	17.42	46.49	44.55	20.01	39.93	22.09	
G50	16.75	15.06	29.4	12.08	37.71	36.34	14.68	33.51	16.75	
G51	11.8	10.62	23.46	7.83	29.78	29.17	10.15	27.47	11.8	
G52	7.98	7.08	18.36	5.05	22.7	22.14	6.75	22.04	7.98	
G53	5.29	4.72	14.16	3.3	16.71	16.42	4.53	17.42	5.29	
G54	3.82	3.54	11.19	2.5	12.46	12.04	3.16	13.4	3.82	
G55	3.16	3.02	9.3	2.12	9.77	9.49	2.74	10.71	3.16	
G56	2.83	2.78	8.26	1.94	8.26	8.31	2.36	9.06	2.83	
G57	2.45	2.5	7.55	1.65	7.55	7.65	2.03	8.17	2.45	
G58	2.31	2.12	6.94	1.32	7.03	6.94	1.75	7.55	2.31	
G59	2.03	1.89	6.42	1.09	6.51	6.42	1.56	7.03	2.03	
G60	1.79	1.7	5.99	0.9	5.99	5.9	1.32	6.61	1.79	
G61	1.51	1.51	5.52	0.85	5.57	5.57	1.23	6.04	1.51	
G62	1.42	1.27	5.1	0.71	5.19	5.24	1.09	5.76	1.42	
G63	1.27	1.04	4.86	0.47	4.81	5.0	1.04	5.47	1.27	
G64	1.23	0.94	4.67	0.38	4.48	4.58	0.85	5.14	1.23	
G65	0.99	0.8	4.44	0.28	4.15	4.39	0.85	4.81	0.99	
G66	0.99	0.61	3.96	0.24	3.96	4.01	0.57	4.63	0.99	
G67	0.8	0.47	3.82	0.09	3.68	3.73	0.52	4.34	0.8	
G68	0.71	0.33	3.54	0.05	3.54	3.4	0.42	4.11	0.71	
G69	0.61	0.33	3.26	0.0	3.3	3.3	0.33	3.68	0.61	
G70	0.57	0.24	3.07	0.0	3.21	3.07	0.24	3.68	0.57	
G71	0.42	0.24	2.97	0.0	2.97	3.02	0.19	3.49	0.42	
G72	0.38	0.09	2.69	0.0	2.78	2.69	0.19	3.3	0.38	
G73	0.33	0.05	2.55	0.0	2.55	2.6	0.09	3.02	0.33	

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