

Report No.:

Test Time: 2024/7/10 10:01:46

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBDL226CT115-14.5W
Lamp Type:
Luminous Width: 106 mm
Luminous Length: 106 mm
Luminous Height: 55 mm

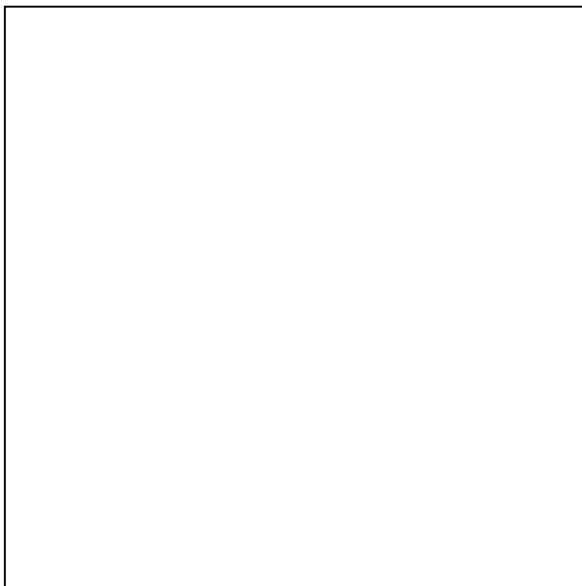
Voltage(V): 219.90 V
Current(A): 0.0690 A
Power(W): 14.46 W
Power Factor: 0.9450
Lamp Luminous Flux: 1139.21

Photometric Results

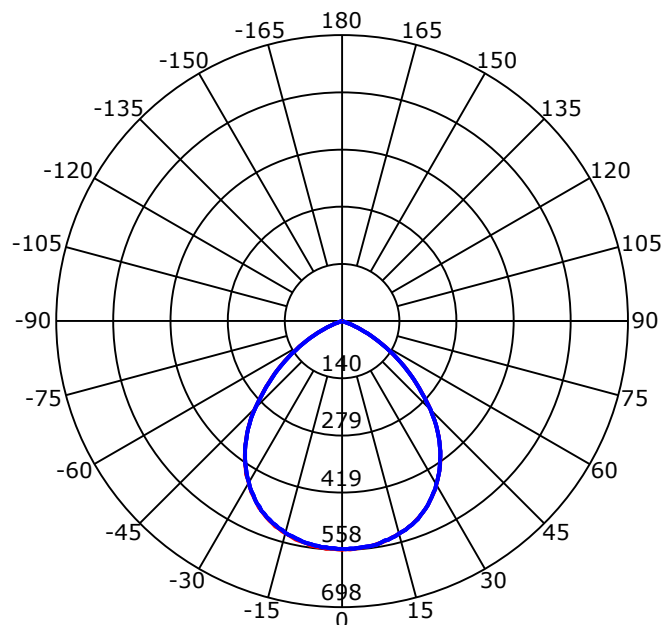
CIE Class: Direct
Luminaire Luminous Flux: 1139.205 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 78.78 lm/W
Beam Angle(50%) C0-180,C90-270: 93.4,93.4
Field Angle(10%) C0-180,C90-270: 130.7,130.6
S/MH C0-180,C90-270: 1.202,1.202

Max. Intensity: 558.43 cd
Max.Intensity Angle: C=315 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 558.30 cd
Effective Luminous Flux: 1116.90 lm
ERP(ϕ use)(120deg): 1074.33 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 93.4 deg,93.4 deg

C0-180 — C90-270 —

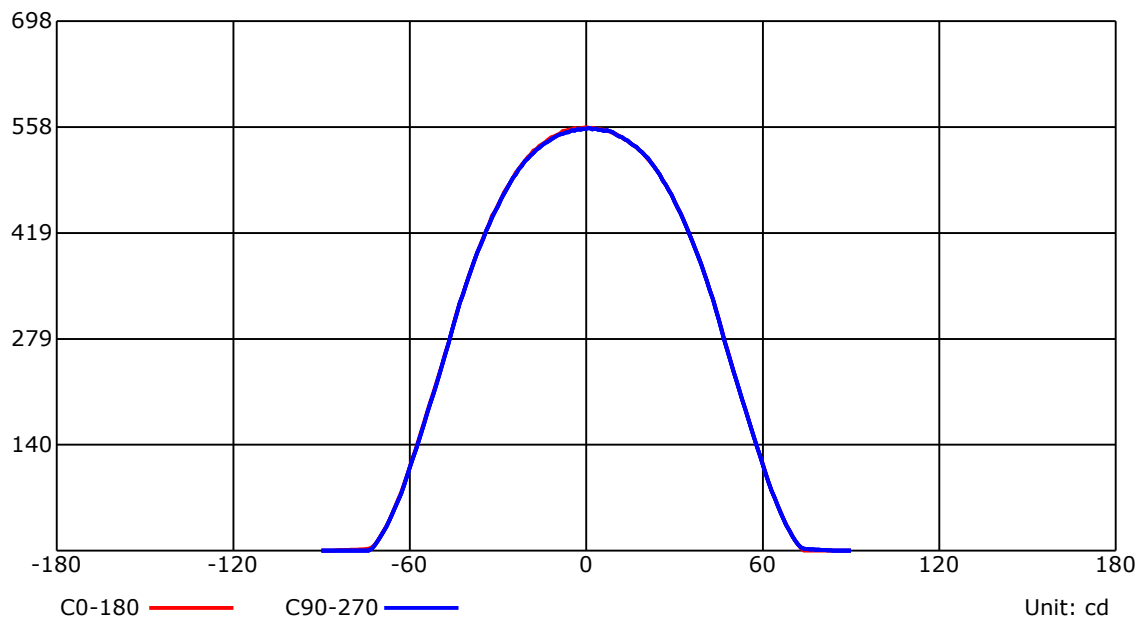
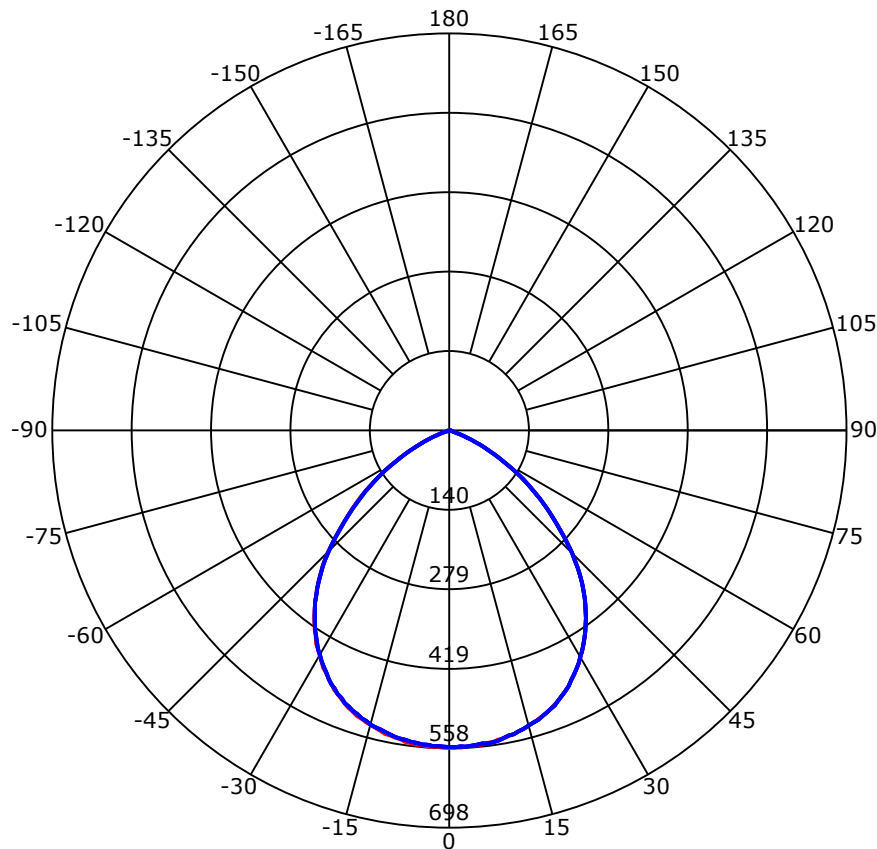
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/7/10 10:01:46

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

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Luminous Intensity Distribution Curve



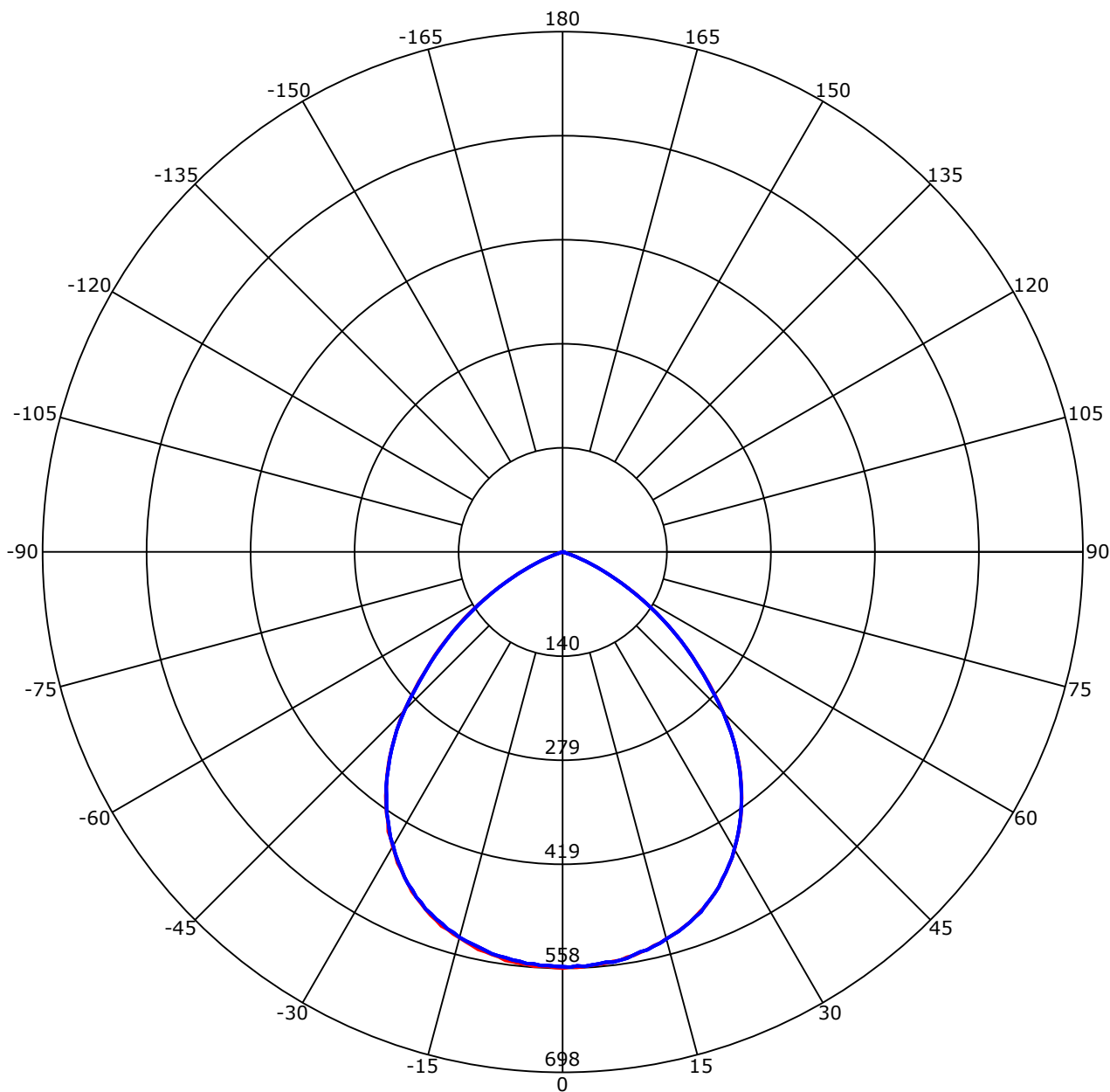
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

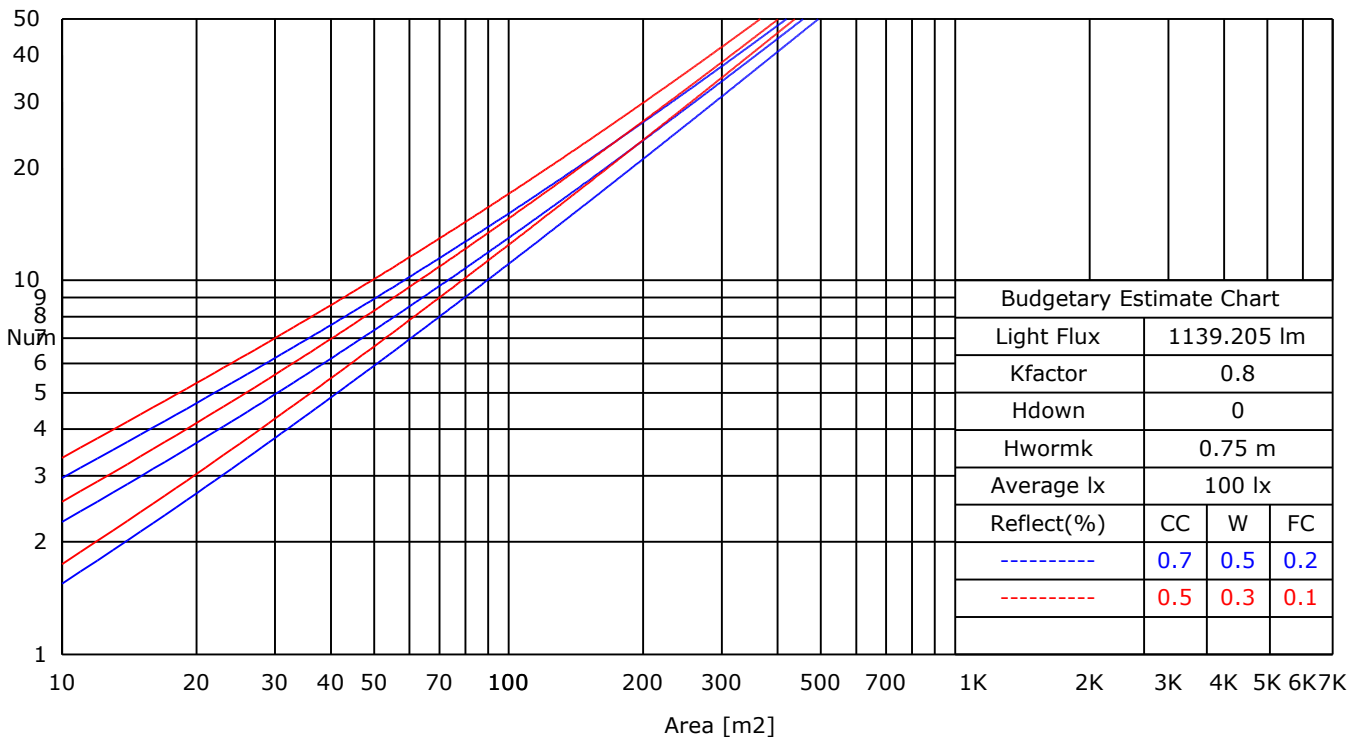
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Operators: QC01
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Humidity: 60
Test Distance: 6.7 m
Remarks:

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	1.07	1.06	1.05	1.04	1.02	1.00	0.98	0.97	0.95	0.92	0.90	0.88	0.83
2	1.00	0.99	0.97	0.99	0.97	0.95	0.96	0.93	0.91	0.92	0.89	0.87	0.86	0.83	0.81	0.76
3	0.92	0.90	0.89	0.91	0.89	0.87	0.89	0.86	0.83	0.85	0.82	0.79	0.81	0.77	0.74	0.70
4	0.85	0.83	0.82	0.84	0.82	0.80	0.82	0.79	0.77	0.80	0.76	0.73	0.76	0.72	0.68	0.64
5	0.79	0.77	0.76	0.78	0.76	0.74	0.77	0.73	0.71	0.74	0.70	0.67	0.72	0.67	0.63	0.59
6	0.73	0.71	0.70	0.73	0.70	0.68	0.71	0.68	0.65	0.70	0.65	0.62	0.67	0.62	0.58	0.55
7	0.68	0.66	0.65	0.68	0.65	0.63	0.67	0.63	0.61	0.65	0.61	0.58	0.63	0.58	0.54	0.51
8	0.64	0.62	0.61	0.63	0.61	0.59	0.63	0.59	0.57	0.62	0.57	0.54	0.60	0.55	0.51	0.47
9	0.60	0.58	0.57	0.60	0.57	0.55	0.59	0.55	0.53	0.58	0.54	0.50	0.57	0.52	0.48	0.44
10	0.56	0.54	0.53	0.56	0.54	0.52	0.56	0.52	0.50	0.55	0.50	0.47	0.54	0.49	0.45	0.42

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



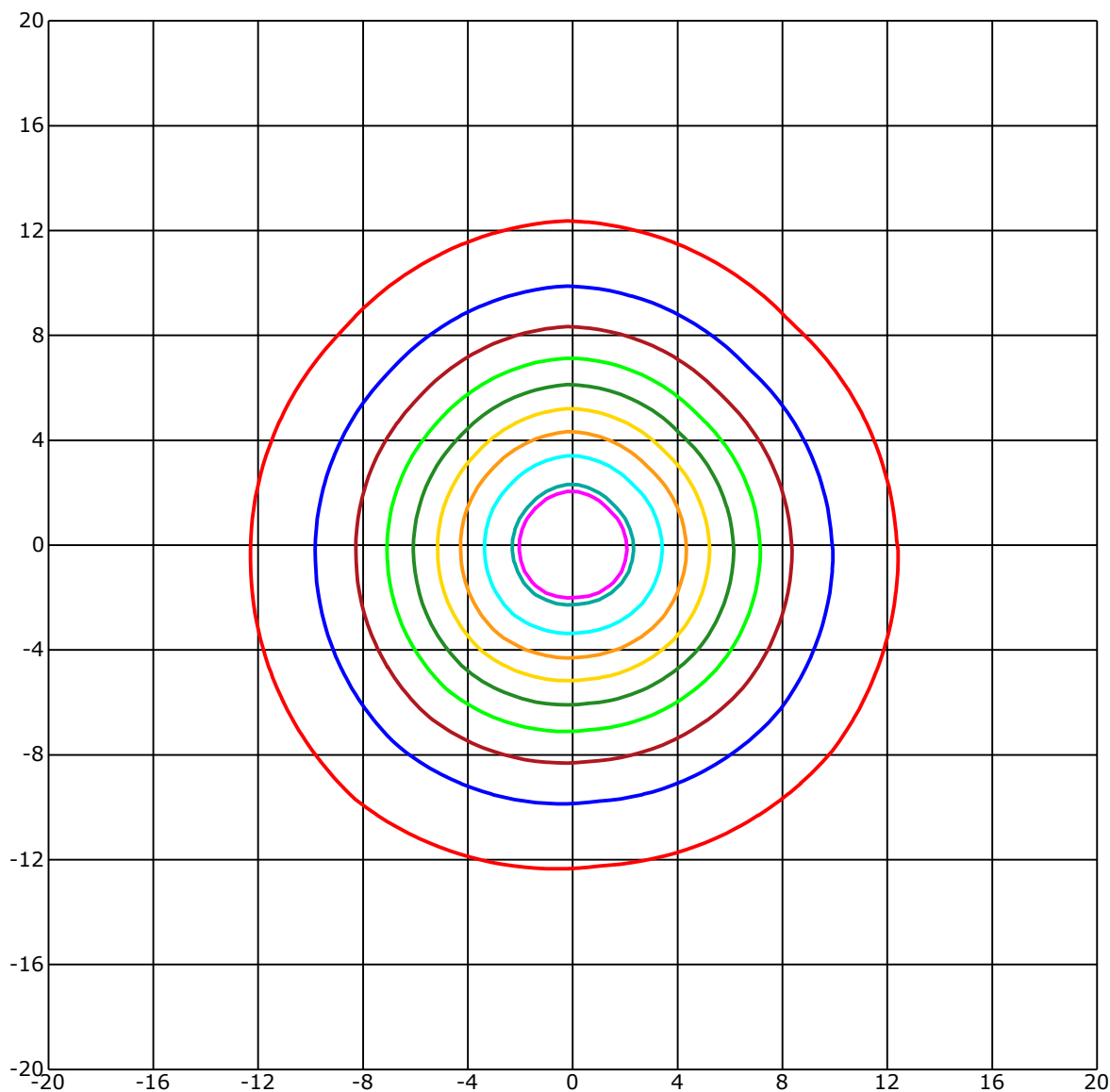
C Range: 0 - 360 Deg
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Test Speed: High
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Operators: QC01
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G Range: 0 - 90 Deg
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ISOLX DIAGRAM



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

5.136(92%Emax)	2.791(50%Emax)
5.025(90%Emax)	2.233(40%Emax)
4.466(80%Emax)	1.675(30%Emax)
3.908(70%Emax)	1.117(20%Emax)
3.35(60%Emax)	0.558(10%Emax)

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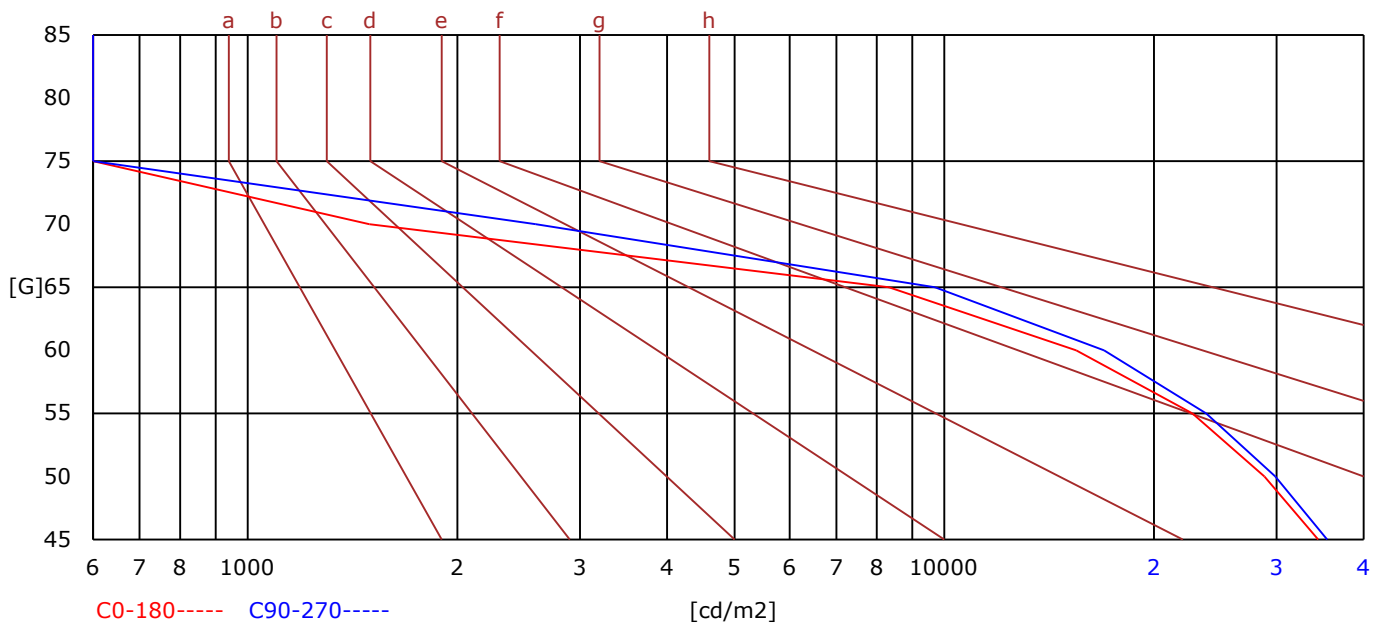
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	34415	28821	22693	15469	8328	1495	0	0	0
C90	35460	29853	23766	16956	9699	2593	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



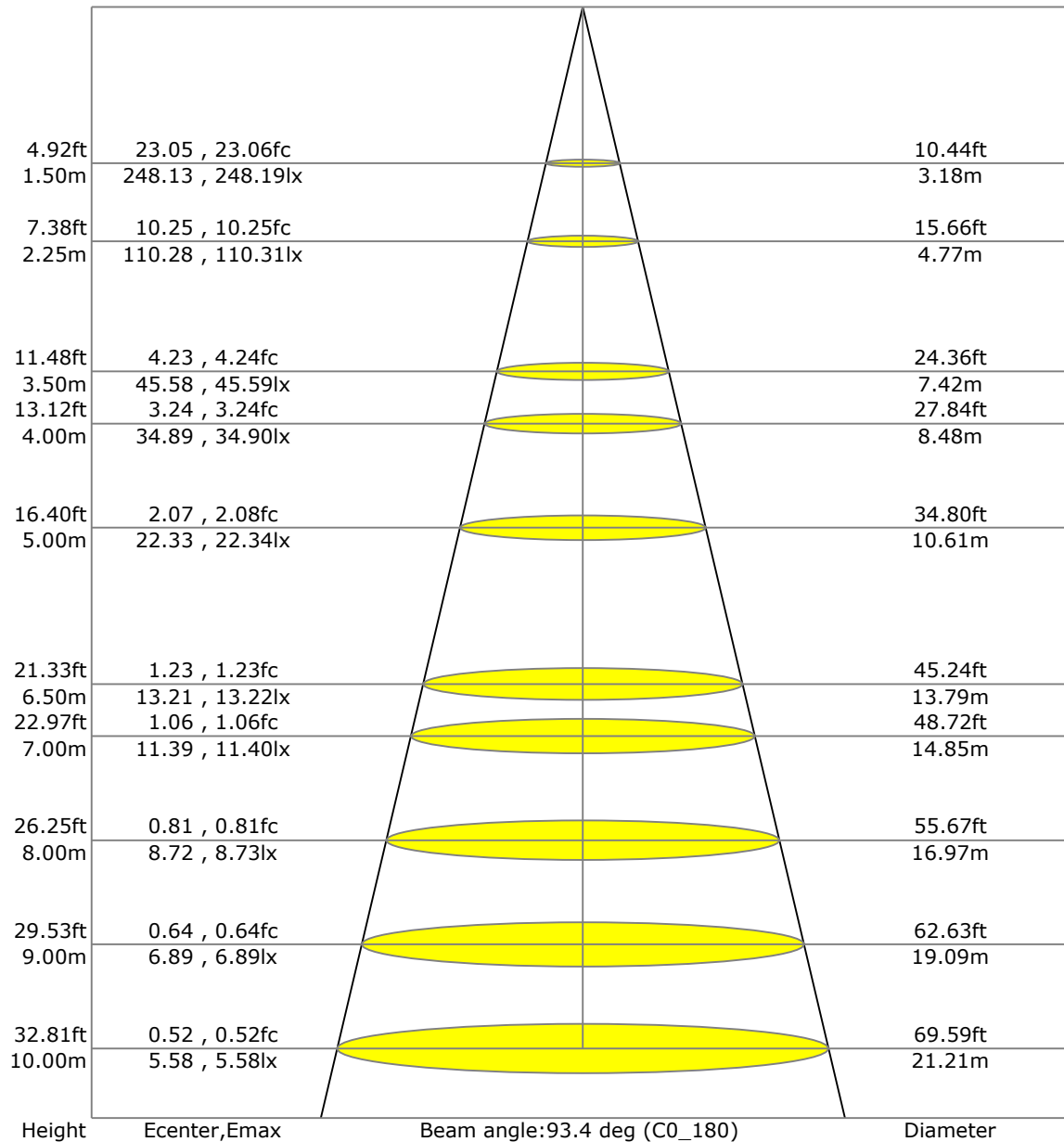
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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2024/7/10 10:01:46

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.7 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	18.91	18.98	19.11	19.16	19.41	18.91	18.97	19.11	19.16	19.40
3H	18.88	18.95	19.09	19.14	19.39	18.88	18.94	19.08	19.13	19.38
4H	18.86	18.92	19.07	19.12	19.37	18.85	18.91	19.06	19.11	19.36
6H	18.83	18.89	19.05	19.09	19.35	18.83	18.89	19.04	19.09	19.34
8H	18.82	18.88	19.04	19.08	19.34	18.81	18.87	19.03	19.08	19.33
12H	18.81	18.86	19.03	19.07	19.32	18.80	18.86	19.02	19.06	19.32
4H 2H	19.14	19.20	19.35	19.39	19.64	19.13	19.19	19.34	19.39	19.64
3H	19.10	19.16	19.32	19.36	19.62	19.09	19.15	19.31	19.35	19.61
4H	19.07	19.12	19.30	19.34	19.60	19.06	19.12	19.29	19.33	19.59
6H	19.04	19.09	19.27	19.31	19.57	19.03	19.08	19.27	19.30	19.57
8H	19.02	19.07	19.26	19.30	19.56	19.01	19.06	19.26	19.29	19.55
12H	19.00	19.05	19.25	19.28	19.55	18.99	19.04	19.24	19.27	19.54
8H 4H	19.10	19.16	19.32	19.36	19.61	19.09	19.15	19.31	19.35	19.61
6H	18.98	19.03	19.24	19.27	19.54	18.98	19.02	19.23	19.26	19.53
8H	18.96	19.01	19.22	19.25	19.53	18.96	19.00	19.22	19.24	19.52
12H	18.94	18.98	19.21	19.23	19.52	18.94	18.97	19.21	19.23	19.51
12H 4H	19.00	19.05	19.25	19.28	19.55	19.00	19.04	19.24	19.27	19.54
6H	18.96	19.01	19.22	19.25	19.53	18.96	19.00	19.22	19.24	19.52

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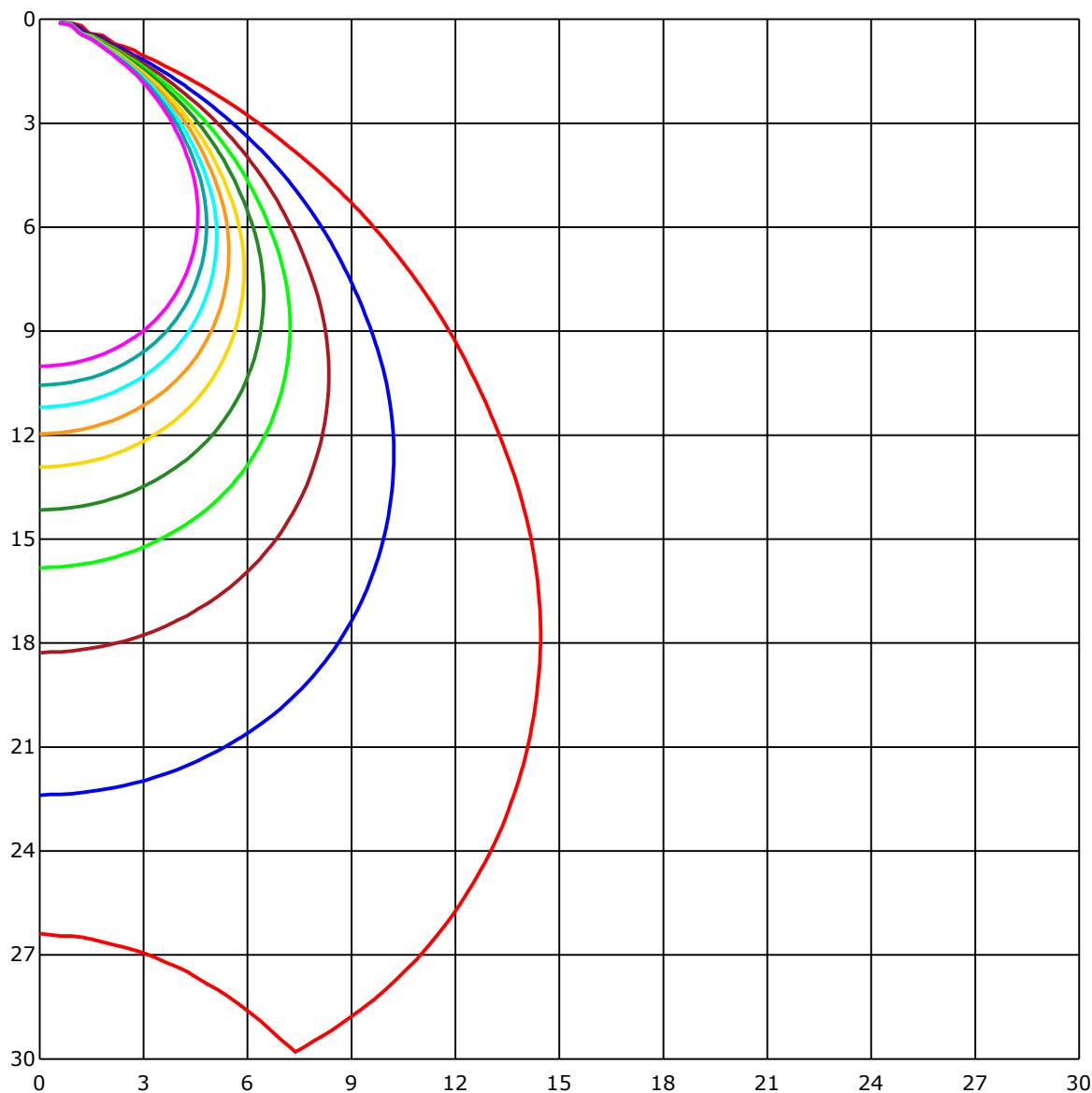
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Humidity: 60
Test Distance: 6.7 m
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SPACE ISOLX DIAGRAM



Unit of illumination:lx



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G Interval: 1.0 Deg
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Humidity: 60
Test Distance: 6.7 m
Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	558.3	556.28	556.14	558.21	558.3	556.28	556.14	558.21	558.3	
G1	557.0	555.96	557.04	556.28	557.76	556.41	556.01	556.32	557.0	
G2	557.62	553.99	555.47	555.74	556.59	555.15	555.15	558.43	557.62	
G3	556.77	554.03	556.41	555.51	556.41	555.74	555.47	556.23	556.77	
G4	555.78	552.6	555.29	555.83	557.08	554.53	553.9	556.68	555.78	
G5	555.42	551.83	554.62	553.76	555.33	555.74	554.21	555.11	555.42	
G6	554.8	549.5	553.27	553.81	555.2	553.85	551.88	555.6	554.8	
G7	553.22	548.06	554.3	550.67	553.94	554.26	551.43	553.9	553.22	
G8	552.73	545.86	553.04	550.4	553.45	552.33	549.59	554.12	552.73	
G9	550.35	545.77	551.7	547.07	549.9	550.71	548.74	551.52	550.35	
G10	549.5	542.99	548.87	546.09	548.2	549.9	547.03	551.74	549.5	
G11	547.25	540.83	546.18	543.93	546.31	548.06	544.47	549.77	547.25	
G12	545.1	538.99	545.55	541.82	545.01	547.12	541.91	547.7	545.1	
G13	542.05	535.4	542.59	538.46	541.82	545.14	539.49	544.11	542.05	
G14	540.39	531.5	540.61	535.27	538.72	541.82	537.47	542.99	540.39	
G15	536.97	529.25	537.15	533.92	535.94	540.79	534.95	539.94	536.97	
G16	534.91	525.08	534.51	529.88	533.38	537.51	530.87	537.38	534.91	
G17	531.36	521.35	532.22	525.66	529.39	535.49	528.62	533.79	531.36	
G18	528.13	518.75	528.22	523.15	527.5	531.59	524.23	531.9	528.13	
G19	524.85	514.21	524.99	517.94	522.21	529.75	520.95	528.22	524.85	
G20	520.54	508.51	520.77	514.3	518.75	526.83	516.5	524.67	520.54	
G21	515.79	503.22	517.4	508.51	513.72	522.3	513.14	520.32	515.79	
G22	511.84	496.35	511.3	503.98	508.56	518.17	506.9	515.88	511.84	
G23	506.27	490.6	506.4	497.74	503.17	514.57	502.95	513.18	506.27	
G24	501.02	484.41	501.15	493.66	498.5	507.98	496.12	506.76	501.02	
G25	495.41	478.75	495.68	484.72	491.23	504.25	491.32	500.93	495.41	
G26	488.72	470.4	488.18	478.26	485.13	497.07	484.77	495.32	488.72	
G27	482.25	464.97	482.16	470.13	478.12	492.4	477.05	488.04	482.25	
G28	475.65	456.04	475.03	464.39	472.33	485.35	470.4	483.47	475.65	
G29	468.52	448.59	468.83	455.72	463.62	480.5	463.31	475.52	468.52	
G30	461.07	442.35	460.21	447.69	456.35	472.15	454.83	468.79	461.07	
G31	452.58	431.35	452.45	438.89	448.05	465.73	447.96	461.56	452.58	
G32	444.64	422.59	444.59	430.23	442.03	457.2	439.25	453.93	444.64	
G33	436.29	413.35	435.75	421.79	431.12	449.44	430.36	444.73	436.29	
G34	427.4	404.59	426.9	412.63	422.73	441.13	421.97	436.82	427.4	
G35	417.84	394.22	417.52	401.59	413.44	433.32	412.18	429.01	417.84	
G36	408.5	384.35	408.32	392.11	404.1	423.76	402.62	419.32	408.5	

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Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	398.35	374.11	398.31	381.57	393.19	416.09	393.42	409.04	398.35	
G38	388.61	362.4	387.63	370.7	383.5	405.94	383.0	399.93	388.61	
G39	378.11	351.85	377.75	359.39	372.77	396.47	371.78	389.56	378.11	
G40	367.25	338.87	366.26	347.94	362.22	386.01	360.87	379.54	367.25	
G41	355.3	326.49	355.44	336.68	350.05	374.97	349.87	368.19	355.3	
G42	343.81	315.22	343.23	322.71	338.47	364.06	337.93	357.95	343.81	
G43	331.47	300.54	331.47	309.34	326.71	353.28	326.57	345.61	331.47	
G44	318.99	286.85	317.55	296.41	314.5	340.63	312.75	334.65	318.99	
G45	305.12	273.43	304.89	281.73	300.9	328.42	299.73	323.34	305.12	
G46	292.19	259.69	290.3	267.72	285.99	315.49	286.13	308.26	292.19	
G47	277.11	246.76	276.48	253.81	272.62	302.24	271.76	294.3	277.11	
G48	264.04	233.25	262.29	241.1	259.51	289.05	257.85	280.88	264.04	
G49	250.26	221.13	249.59	227.64	245.91	275.62	244.83	266.92	250.26	
G50	237.29	208.15	236.53	215.61	233.52	260.99	231.63	253.72	237.29	
G51	224.14	196.48	224.76	202.68	221.08	248.65	219.24	240.66	224.14	
G52	212.37	184.23	211.84	190.6	209.05	236.12	206.9	228.62	212.37	
G53	199.54	171.66	199.22	177.85	196.17	223.24	194.15	215.61	199.54	
G54	187.19	158.69	186.34	165.73	183.96	210.98	182.3	203.17	187.19	
G55	174.22	146.25	174.08	153.16	171.61	198.46	169.33	190.42	174.22	
G56	161.74	134.67	161.78	141.63	159.27	185.4	156.98	178.21	161.74	
G57	149.39	122.91	149.71	129.37	146.79	173.01	144.86	165.51	149.39	
G58	137.68	110.34	137.5	118.06	134.8	160.21	132.92	153.57	137.68	
G59	125.6	98.62	125.11	106.43	122.55	148.59	121.2	141.63	125.6	
G60	114.07	86.91	112.85	95.26	110.74	135.7	109.76	129.19	114.07	
G61	101.9	75.95	100.96	83.9	99.07	124.17	97.82	116.85	101.9	
G62	90.14	66.12	89.38	73.31	87.98	112.36	86.19	104.82	90.14	
G63	79.14	57.14	78.92	63.97	77.08	101.14	75.37	92.61	79.14	
G64	69.22	48.57	69.44	55.12	67.29	89.87	65.67	82.1	69.22	
G65	59.93	39.55	59.7	46.06	57.73	78.38	56.97	71.96	59.93	
G66	51.49	31.6	50.46	37.8	48.97	68.23	48.35	62.8	51.49	
G67	42.33	24.33	41.79	30.03	40.4	59.25	39.73	53.69	42.33	
G68	34.12	17.78	33.62	22.71	32.55	50.28	31.74	44.98	34.12	
G69	26.62	11.31	26.22	15.98	25.32	41.79	24.64	36.59	26.62	
G70	19.66	5.75	19.3	9.97	18.9	34.03	18.18	29.31	19.66	
G71	13.2	1.84	13.11	4.98	12.93	26.75	12.3	22.22	13.2	
G72	7.63	0.0	7.95	1.08	7.9	19.8	6.91	15.89	7.63	
G73	3.05	0.0	4.22	0.0	4.35	14.05	2.56	10.32	3.05	

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