

Report No.:

Test Time: 2024/8/6 17:46:31

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBDL226CT115-14.1W
Lamp Type:
Luminous Width: 106 mm
Luminous Length: 106 mm
Luminous Height: 55 mm

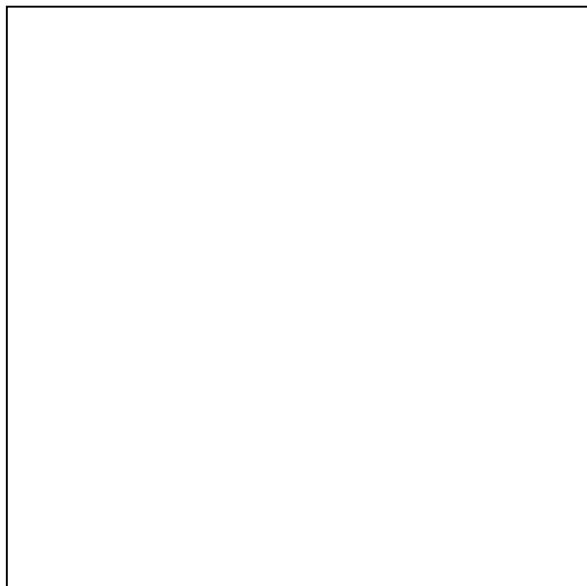
Voltage(V): 219.90 V
Current(A): 0.0670 A
Power(W): 14.12 W
Power Factor: 0.9440
Lamp Luminous Flux: 1170.17

Photometric Results

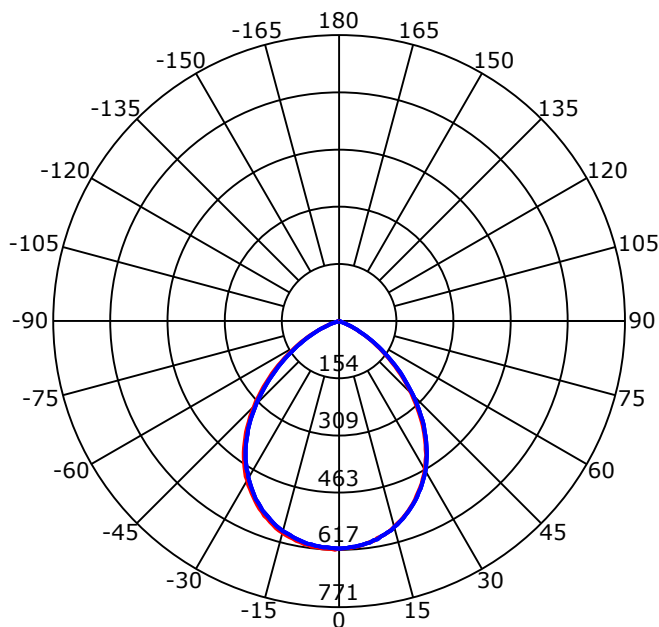
CIE Class: Direct
Luminaire Luminous Flux: 1170.174 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 82.87 lm/W
Beam Angle(50%) C0-180,C90-270: 88.7,88.8
Field Angle(10%) C0-180,C90-270: 129.1,129.0
S/MH C0-180,C90-270: 1.155,1.155

Max. Intensity: 617.06 cd
Max.Intensity Angle: C=180 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 613.87 cd
Effective Luminous Flux: 1142.81 lm
ERP(ϕ use)(120deg): 1104.08 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 88.7 deg,88.8 deg

C0-180 — C90-270 —

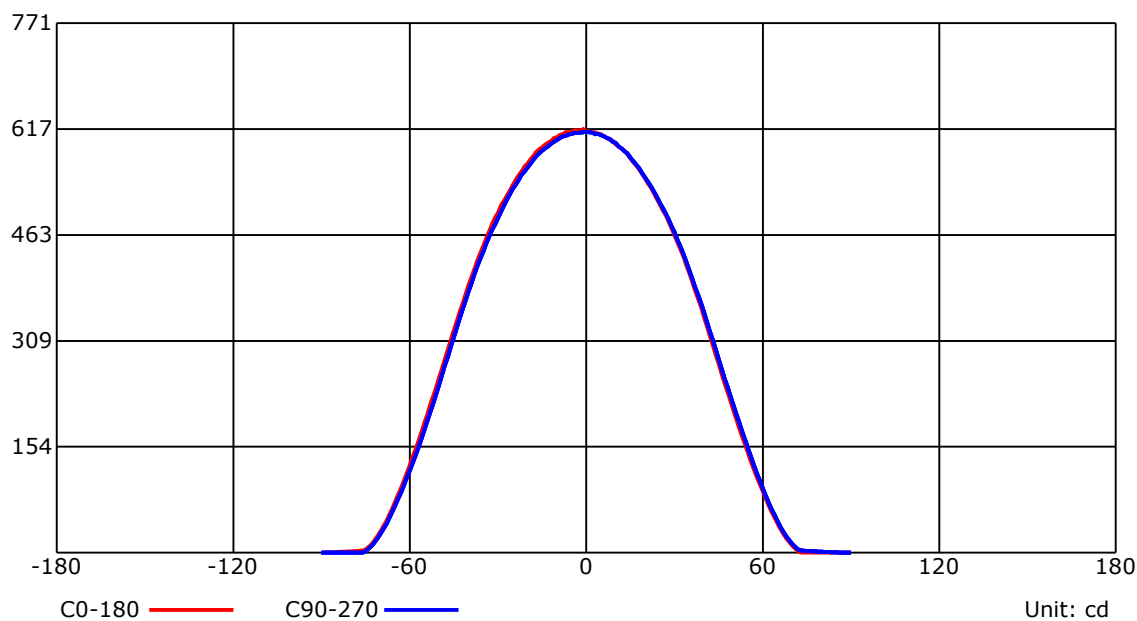
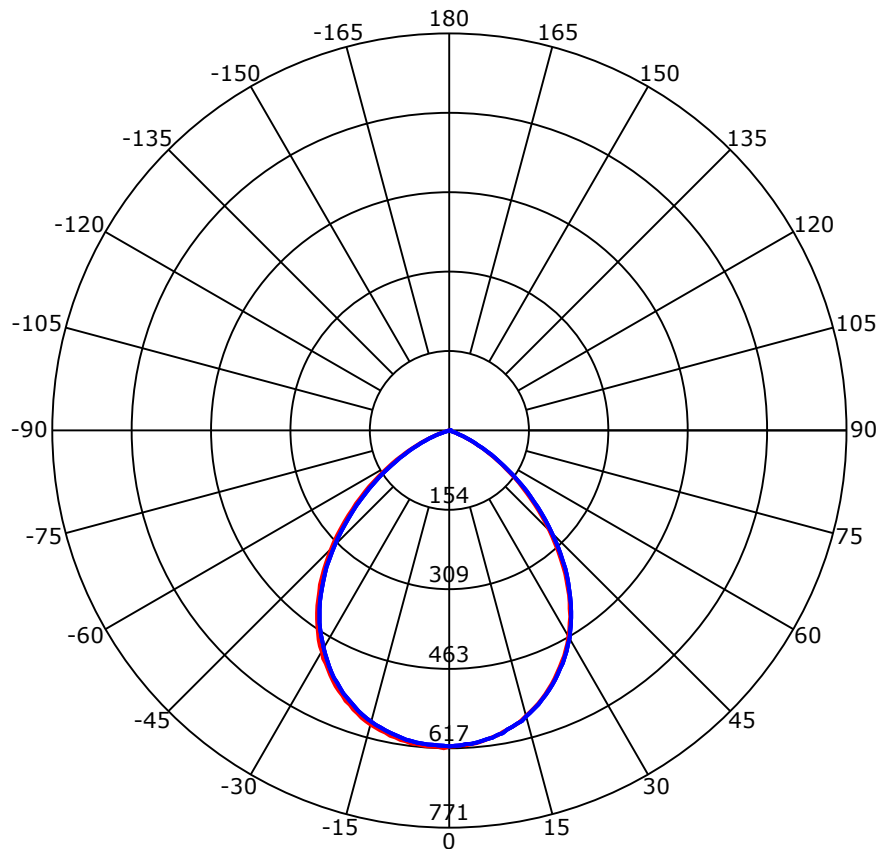
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/8/6 17:46:31

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



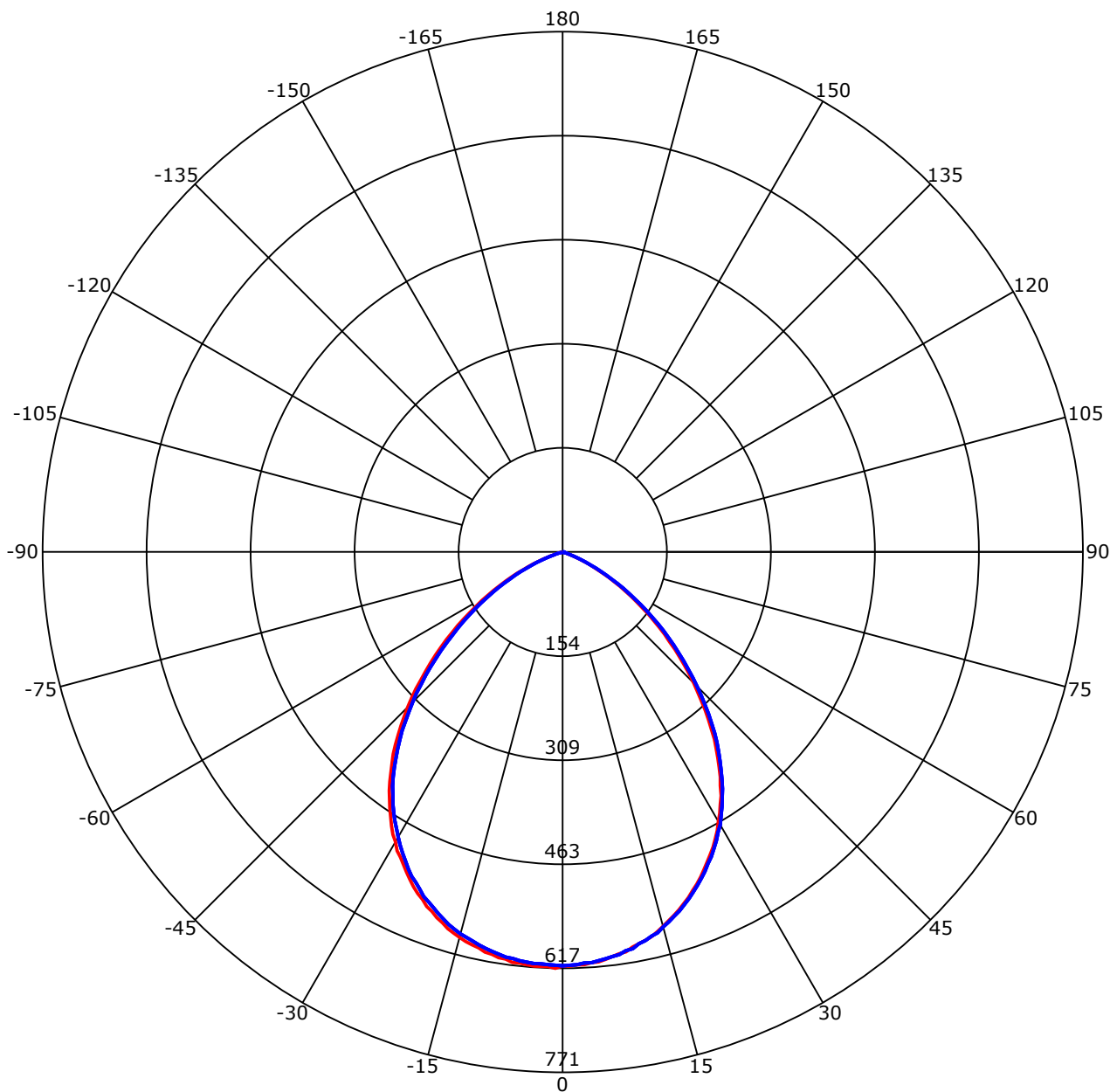
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Operators: QC01
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

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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: 2024/8/6 17:46:31

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

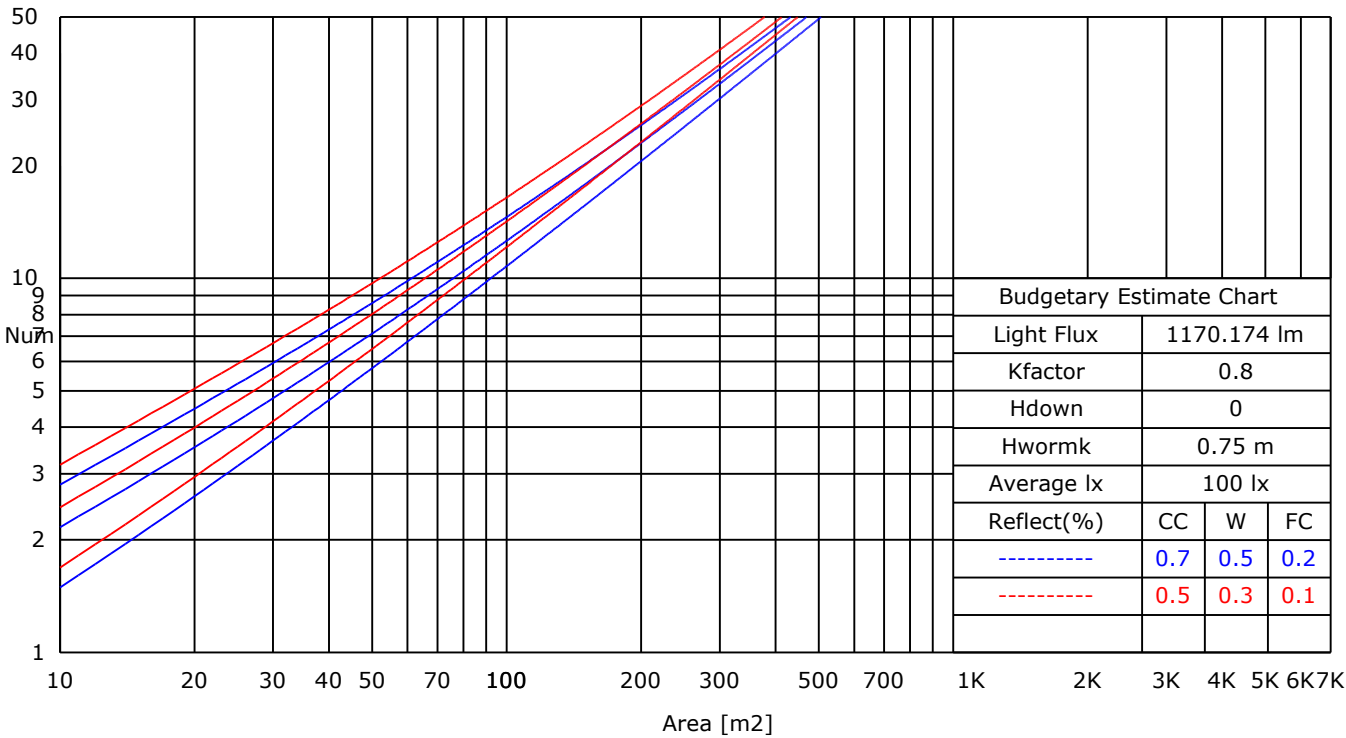
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UTILIZATION FACTORS TABLE

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	1.07	1.06	1.07	1.06	1.04	1.03	1.02	1.00	0.98	0.96	0.95	0.91	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	0.93	0.91	0.89	0.92	0.89	0.87	0.89	0.86	0.84	0.86	0.82	0.79	0.81	0.77	0.74	0.70
4	0.85	0.84	0.82	0.85	0.82	0.80	0.83	0.79	0.77	0.80	0.76	0.73	0.76	0.72	0.69	0.64
5	0.79	0.77	0.76	0.79	0.76	0.74	0.77	0.73	0.71	0.75	0.71	0.67	0.72	0.67	0.63	0.60
6	0.74	0.72	0.70	0.73	0.71	0.69	0.72	0.68	0.66	0.70	0.66	0.62	0.68	0.63	0.59	0.55
7	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	0.51
8	0.64	0.62	0.61	0.64	0.62	0.60	0.63	0.60	0.57	0.62	0.58	0.54	0.61	0.55	0.51	0.48
9	0.60	0.59	0.58	0.60	0.58	0.56	0.60	0.56	0.54	0.59	0.54	0.51	0.57	0.52	0.48	0.45
10	0.57	0.55	0.54	0.57	0.54	0.53	0.56	0.53	0.51	0.56	0.51	0.48	0.55	0.49	0.45	0.42

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



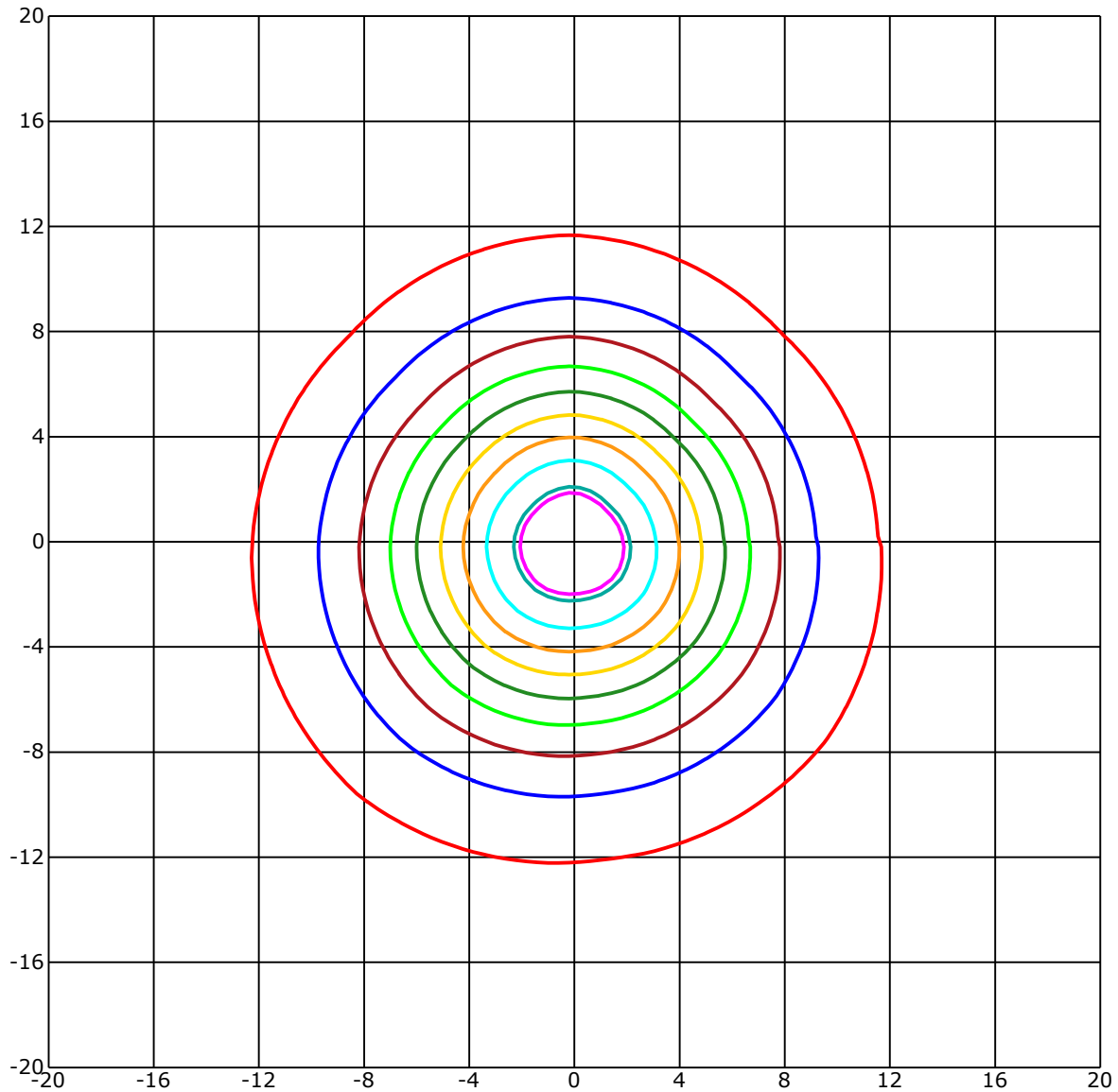
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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ISOLX DIAGRAM



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

5.674(92%Emax)	3.084(50%Emax)
5.551(90%Emax)	2.467(40%Emax)
4.934(80%Emax)	1.85(30%Emax)
4.317(70%Emax)	1.234(20%Emax)
3.701(60%Emax)	0.617(10%Emax)

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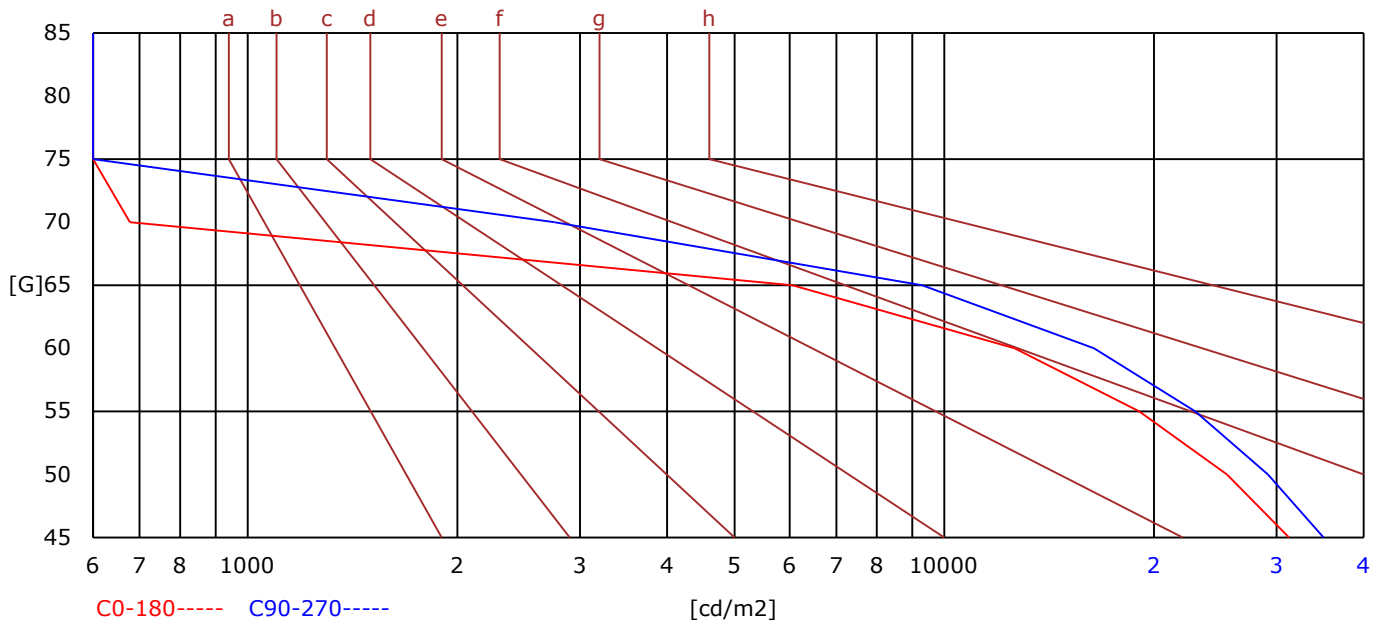
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	31256	25440	19057	12625	6060	678	0	0	0
C90	35030	29157	22916	16412	9293	2757	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

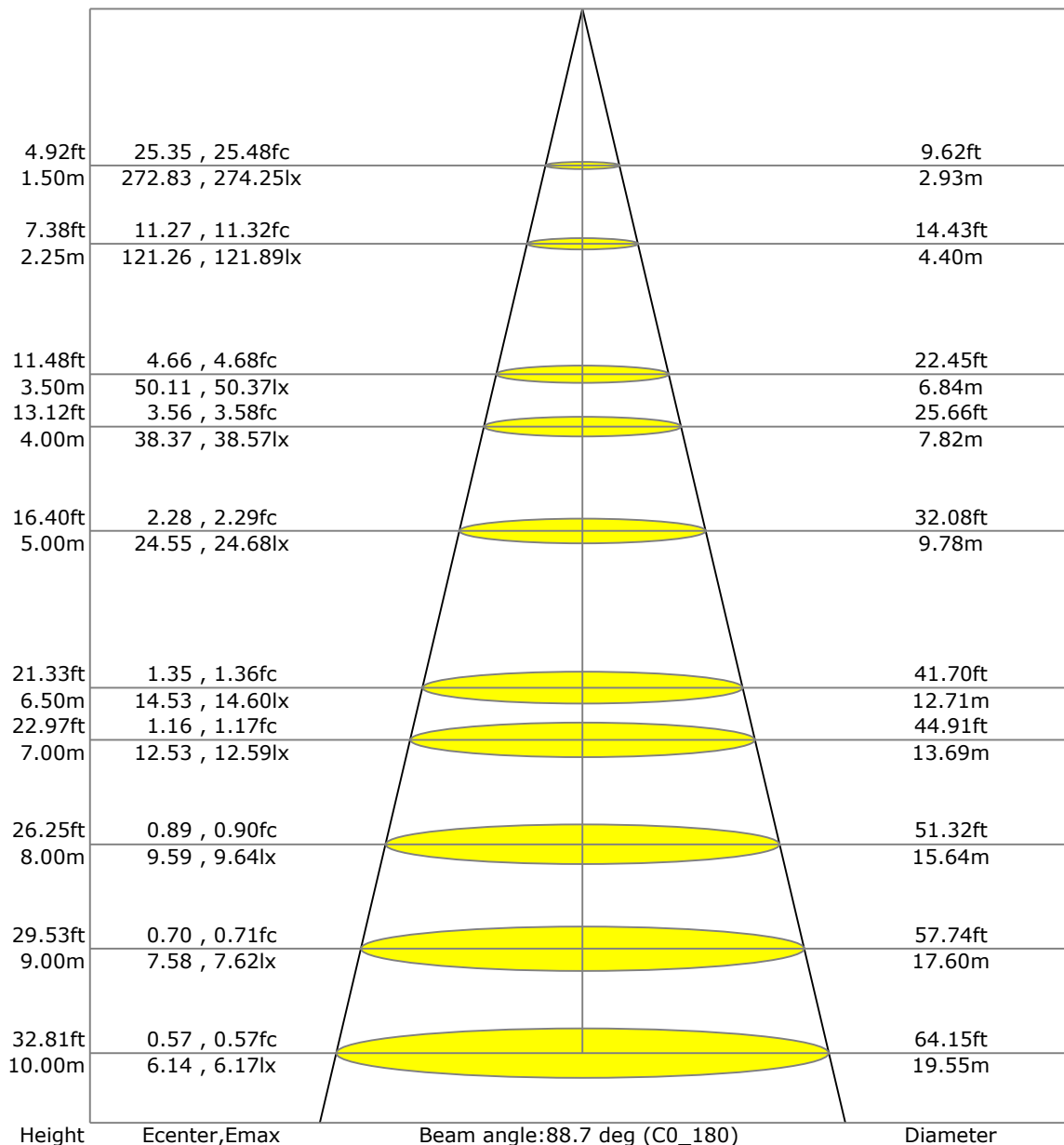


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Operators: QC01
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G Range: 0 - 90 Deg
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Humidity: 60
Test Distance: 6.7 m
Remarks:

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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: 2024/8/6 17:46:31

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	17.83	17.89	18.03	18.08	18.32	17.90	17.96	18.10	18.15	18.39
3H	17.79	17.85	18.00	18.05	18.29	17.86	17.92	18.07	18.12	18.36
4H	17.77	17.83	17.98	18.03	18.27	17.84	17.90	18.05	18.10	18.35
6H	17.74	17.80	17.96	18.00	18.26	17.81	17.87	18.03	18.07	18.33
8H	17.73	17.79	17.95	17.99	18.25	17.80	17.86	18.02	18.06	18.32
12H	17.72	17.77	17.94	17.98	18.23	17.79	17.84	18.01	18.05	18.31
4H 2H	17.95	18.01	18.16	18.20	18.45	18.04	18.10	18.25	18.30	18.55
3H	17.90	17.96	18.12	18.17	18.42	18.00	18.05	18.22	18.26	18.51
4H	17.87	17.93	18.10	18.14	18.40	17.97	18.02	18.20	18.23	18.49
6H	17.84	17.89	18.08	18.11	18.38	17.93	17.99	18.17	18.21	18.47
8H	17.83	17.88	18.07	18.10	18.37	17.92	17.97	18.16	18.19	18.46
12H	17.81	17.86	18.06	18.09	18.36	17.90	17.95	18.15	18.18	18.45
8H 4H	17.91	17.97	18.13	18.17	18.42	18.00	18.06	18.22	18.26	18.52
6H	17.79	17.83	18.04	18.07	18.34	17.88	17.93	18.14	18.17	18.44
8H	17.77	17.81	18.03	18.06	18.33	17.86	17.91	18.12	18.15	18.43
12H	17.75	17.79	18.02	18.04	18.32	17.84	17.88	18.11	18.14	18.42
12H 4H	17.81	17.86	18.06	18.09	18.36	17.90	17.95	18.15	18.18	18.45
6H	17.77	17.81	18.03	18.06	18.33	17.86	17.91	18.13	18.15	18.43

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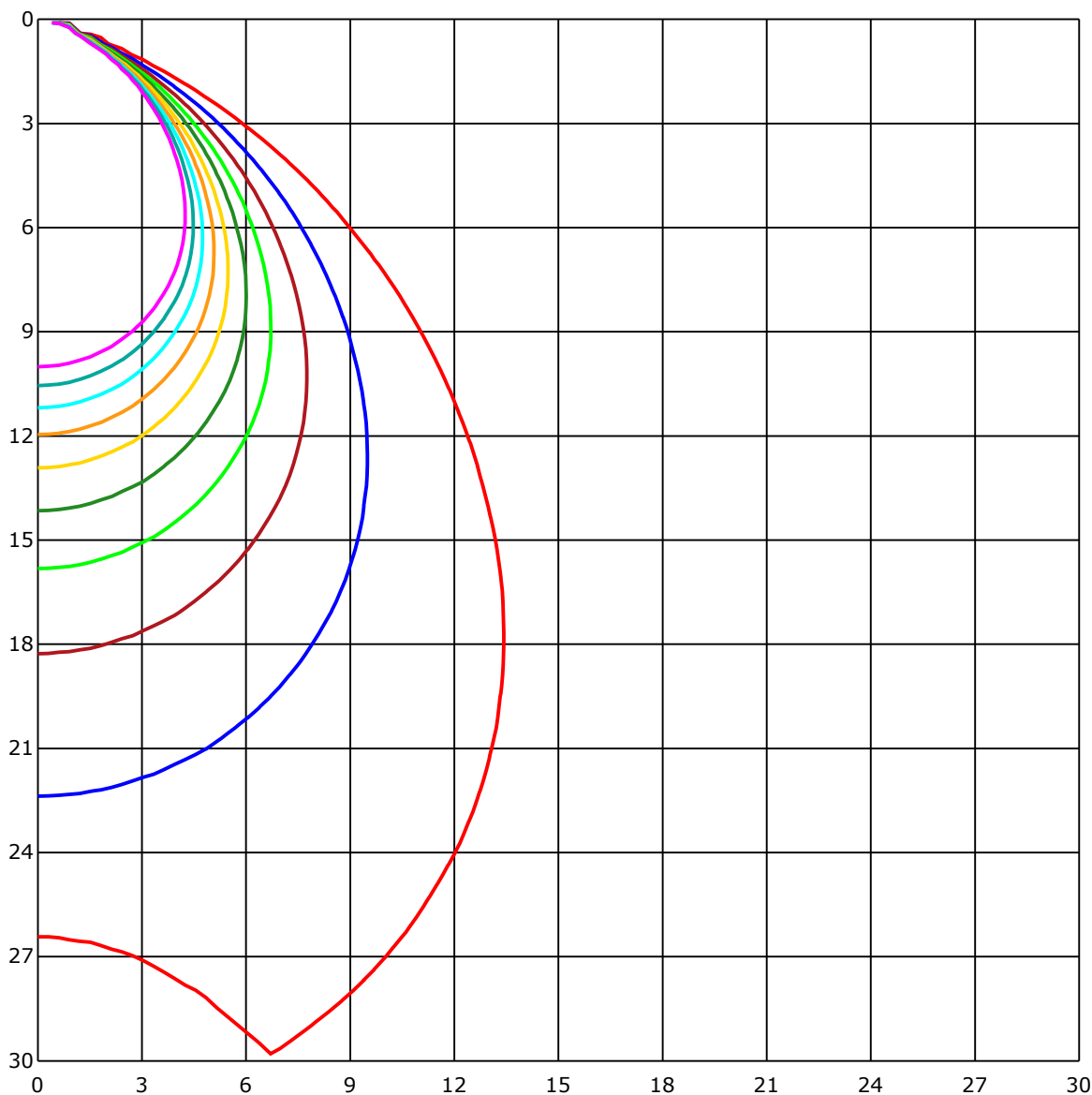
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

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SPACE ISOLX DIAGRAM



Unit of illumination:lx

6.131	3.066
5.518	2.452
4.905	1.839
4.292	1.226
3.679	0.613

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	613.87	610.64	613.47	613.42	613.87	610.64	613.47	613.42	613.87	
G1	613.74	611.27	612.48	613.51	617.06	610.95	612.57	613.6	613.74	
G2	612.25	607.99	612.16	612.12	614.86	612.57	611.99	614.41	612.25	
G3	612.48	605.7	609.83	612.7	615.04	613.02	611.4	613.65	612.48	
G4	610.37	605.12	610.19	609.43	615.26	614.18	611.54	612.16	610.37	
G5	609.65	600.94	608.12	609.11	614.05	611.13	610.23	612.57	609.65	
G6	607.05	599.51	606.19	605.52	612.48	612.03	609.29	610.37	607.05	
G7	604.17	596.09	603.99	605.79	612.79	611.0	607.23	609.38	604.17	
G8	601.12	592.95	602.69	604.58	609.43	609.92	606.19	606.33	601.12	
G9	600.0	590.08	598.43	599.69	608.8	608.08	603.82	606.19	600.0	
G10	594.57	586.62	597.22	596.54	605.61	606.24	601.21	601.89	594.57	
G11	591.52	582.31	591.56	593.31	604.04	604.85	598.43	599.69	591.52	
G12	588.46	576.3	588.78	589.32	600.04	602.47	595.74	597.35	588.46	
G13	585.32	572.84	584.38	584.78	597.49	599.73	591.78	594.25	585.32	
G14	579.8	566.38	581.51	580.65	594.79	596.63	589.14	590.3	579.8	
G15	574.23	562.11	575.49	576.84	591.11	593.98	585.86	588.28	574.23	
G16	568.58	555.96	570.51	571.45	587.74	590.62	581.86	583.84	568.58	
G17	563.46	549.23	564.67	566.2	583.79	585.81	577.51	579.04	563.46	
G18	557.67	542.59	559.6	561.62	577.73	583.35	572.26	573.69	557.67	
G19	551.25	537.02	552.91	554.39	573.11	577.64	566.83	568.53	551.25	
G20	544.92	530.02	546.85	547.52	567.05	573.92	561.08	562.52	544.92	
G21	537.69	521.26	540.03	542.14	562.92	568.4	555.38	557.04	537.69	
G22	531.05	514.8	533.11	533.88	555.38	564.31	550.53	549.99	531.05	
G23	523.06	506.13	525.84	527.46	549.86	556.41	542.77	543.57	523.06	
G24	514.8	498.1	518.21	518.88	543.48	551.65	535.9	537.56	514.8	
G25	506.9	489.75	509.64	511.12	535.72	545.28	530.29	530.15	506.9	
G26	498.73	480.5	502.5	502.45	528.22	538.72	522.38	522.74	498.73	
G27	490.96	470.54	493.66	493.92	520.23	531.0	513.86	515.97	490.96	
G28	481.27	462.46	484.9	485.04	512.51	525.08	505.64	506.22	481.27	
G29	472.24	450.7	475.3	477.09	506.36	516.59	496.89	498.55	472.24	
G30	461.78	440.6	466.81	466.0	495.81	508.42	488.13	489.53	461.78	
G31	452.0	429.33	455.63	456.08	488.67	500.12	478.44	482.34	452.0	
G32	440.69	418.91	445.35	445.53	479.02	491.86	470.09	471.61	440.69	
G33	430.94	406.66	434.58	434.85	468.43	483.06	460.35	461.87	430.94	
G34	417.84	395.03	423.49	424.21	458.37	475.07	450.52	451.68	417.84	
G35	407.15	382.28	411.33	411.46	447.91	464.39	439.16	441.22	407.15	
G36	394.67	369.94	399.79	399.66	437.54	455.41	429.19	429.06	394.67	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	382.01	356.7	387.31	386.46	425.96	444.28	417.52	418.02	382.01	
G38	369.04	344.4	375.24	374.16	413.84	433.01	405.67	405.94	369.04	
G39	357.19	331.33	363.21	361.05	402.08	421.92	392.83	394.49	357.19	
G40	343.05	317.51	350.55	347.76	390.86	411.06	381.03	383.59	343.05	
G41	329.81	303.23	336.32	334.21	377.97	398.67	368.1	370.48	329.81	
G42	315.62	290.21	322.94	319.8	364.28	386.73	356.02	356.92	315.62	
G43	301.44	275.71	309.38	306.55	351.49	373.53	341.43	343.81	301.44	
G44	287.57	263.19	295.91	293.27	337.8	361.77	328.06	330.57	287.57	
G45	274.59	248.33	281.95	278.32	325.14	347.72	314.41	317.37	274.59	
G46	260.54	235.36	268.04	264.22	311.49	335.46	301.44	302.78	260.54	
G47	246.67	221.85	254.26	251.16	297.67	321.37	286.71	289.0	246.67	
G48	233.47	209.32	241.15	237.06	283.26	308.04	273.47	275.67	233.47	
G49	220.45	196.12	227.59	223.96	269.38	294.39	259.37	261.93	220.45	
G50	206.67	183.73	214.98	210.58	256.1	281.19	245.19	248.02	206.67	
G51	194.33	170.58	201.96	197.96	242.32	267.05	232.13	236.03	194.33	
G52	181.13	159.14	189.79	184.72	229.66	253.49	218.17	221.62	181.13	
G53	169.15	146.75	176.69	172.65	216.28	240.61	204.92	209.19	169.15	
G54	156.4	134.31	163.67	159.99	202.18	226.38	192.22	195.94	156.4	
G55	144.01	122.82	151.37	147.69	189.84	213.41	179.2	182.7	144.01	
G56	132.02	111.78	139.34	136.33	176.73	199.9	166.81	170.36	132.02	
G57	120.98	100.96	127.31	124.97	164.07	187.24	154.29	158.37	120.98	
G58	109.8	90.63	115.86	113.75	152.0	174.22	142.8	145.67	109.8	
G59	98.89	80.31	104.5	103.02	139.92	161.56	130.81	134.13	98.89	
G60	88.93	70.93	93.37	92.2	128.07	149.39	119.72	121.97	88.93	
G61	78.42	61.27	83.05	81.97	116.89	137.59	109.49	111.01	78.42	
G62	68.5	52.57	72.9	72.05	105.45	125.42	98.49	100.42	68.5	
G63	59.48	43.68	63.43	62.35	94.72	114.74	87.8	89.24	59.48	
G64	50.59	36.14	54.81	53.33	84.48	103.43	78.02	79.46	50.59	
G65	42.2	28.77	45.61	44.13	74.2	92.29	68.28	69.44	42.2	
G66	34.3	22.22	37.48	36.0	64.42	82.06	59.21	60.15	34.3	
G67	27.29	16.12	30.3	28.59	55.48	72.32	50.28	51.31	27.29	
G68	20.51	10.59	23.75	21.91	46.28	62.67	41.61	43.0	20.51	
G69	14.9	6.28	17.91	15.85	38.47	53.73	34.07	35.15	14.9	
G70	9.88	2.6	12.7	10.59	31.02	44.89	27.25	28.24	9.88	
G71	5.66	0.36	8.35	5.93	24.47	36.94	20.69	22.13	5.66	
G72	1.98	0.36	4.94	2.11	18.36	29.81	14.9	16.25	1.98	
G73	0.22	0.0	3.32	0.0	12.88	23.25	9.88	11.36	0.22	

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