

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: PrentaLux

Report Number: P866188

Luminaire Tested: PRLX-2002-M-927-55L-G-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866188
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-41)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-M-927-55L-G-U-S-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 6
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

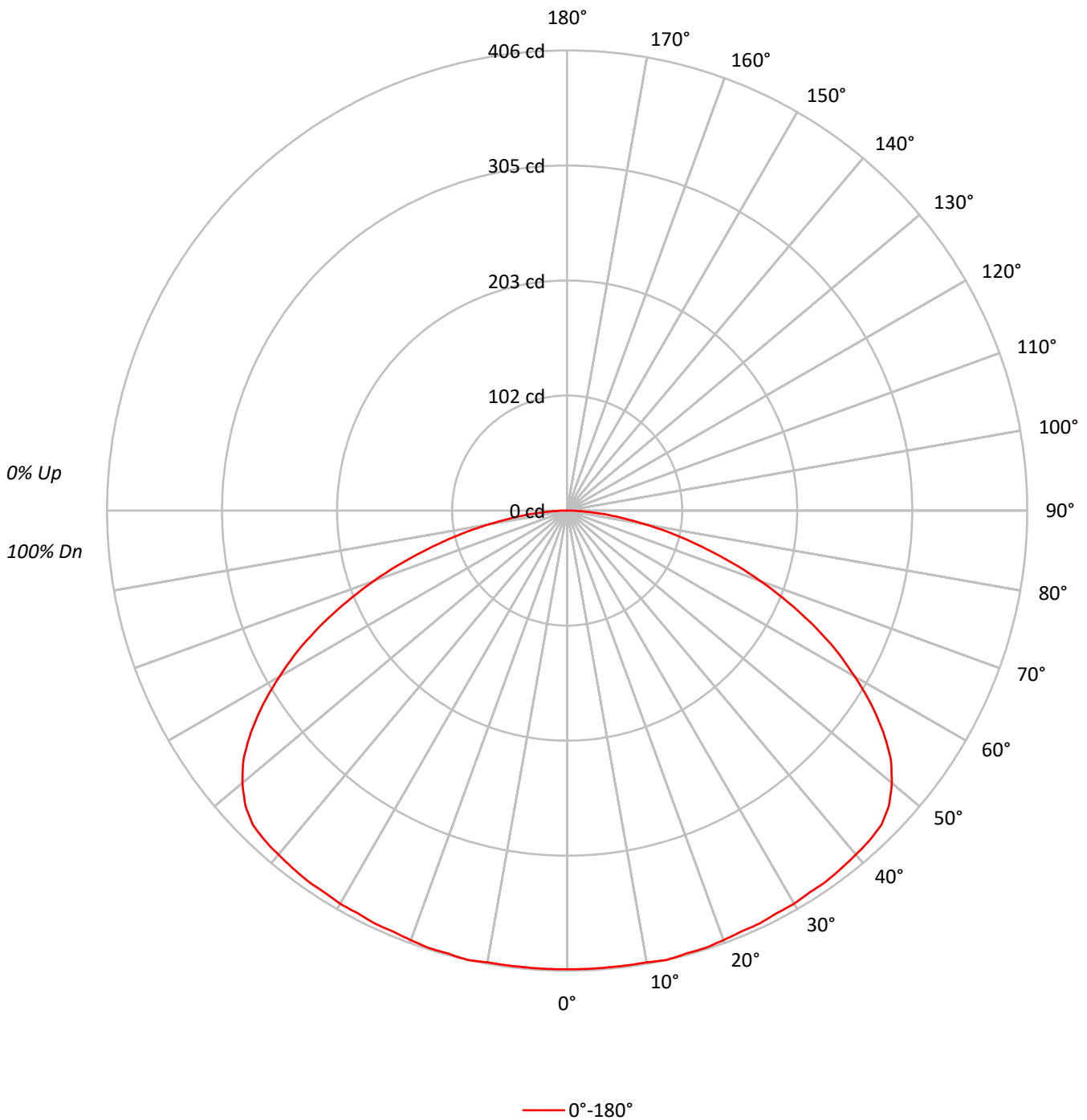
Lumens per Lamp: N/A
Luminaire Lumens: 1594.3 lumens
Efficiency: N/A
Efficacy: 33.0 lumens/watt
Spacing Criteria (0/90/45): 1.51 / 1.51 / 1.67
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 48.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: 0.5 HR
Operation Time: 3 HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10	0		
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	108	103	98	94	105	100	96	92	96	93	90		92	89	87		89	86	84	82
2	97	88	81	75	95	86	80	74	83	77	72		80	75	71		76	72	69	67
3	88	77	68	61	85	75	67	60	72	65	59		69	63	58		67	61	57	55
4	80	67	58	51	78	66	57	50	63	56	49		61	54	49		59	53	48	46
5	73	59	50	43	71	58	49	42	56	48	42		54	47	41		52	46	41	39
6	67	53	43	37	65	52	43	37	50	42	36		48	41	36		47	40	35	33
7	62	48	38	32	60	47	38	32	45	37	32		44	37	31		42	36	31	29
8	57	43	34	28	56	42	34	28	41	33	28		40	33	28		39	32	27	25
9	53	39	31	25	52	39	31	25	38	30	25		36	30	25		35	29	24	23
10	50	36	28	22	49	36	28	22	35	27	22		34	27	22		33	26	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3220
5°	3232
10°	3269
15°	3333
20°	3414
25°	3528
30°	3679
35°	3876
40°	4116
45°	4412
50°	4629
55°	4723
60°	4664
65°	4518
70°	4220
75°	3775
80°	3198
85°	2547

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 55°
 Luminance: 4723 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.6	2.4
10°-20°	114.7	7.2
20°-30°	185.8	11.7
30°-40°	250.3	15.7
40°-50°	301.3	18.9
50°-60°	302.6	19.0
60°-70°	236.5	14.8
70°-80°	131.0	8.2
80°-90°	33.4	2.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	339.2	21.3
0°-40°	589.5	37.0
0°-60°	1193.4	74.9
0°-90°	1594.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1594.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	405	
5°	405	39
15°	405	115
25°	402	186
35°	399	250
45°	392	301
55°	340	303
65°	240	236
75°	123	131
85°	28	33
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	404.7
2.5°	404.7
5°	404.7
7.5°	404.7
10°	404.7
12.5°	406.1
15°	404.7
17.5°	404.7
20°	403.3
22.5°	401.9
25°	401.9
27.5°	400.5
30°	400.5
32.5°	399.1
35°	399.1
37.5°	397.7
40°	396.3
42.5°	394.9
45°	392.1
47.5°	385.2
50°	374.0
52.5°	360.0
55°	340.5
57.5°	318.2
60°	293.1
62.5°	267.9
65°	240.0
67.5°	210.7
70°	181.4
72.5°	152.1
75°	122.8
77.5°	96.3
80°	69.8
82.5°	47.4
85°	27.9
87.5°	12.6
90°	0.0



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	18.09	19.82	18.45	20.14	20.45	18.09	19.82	18.45	20.14	20.45
	3H	19.92	21.50	20.30	21.82	22.18	19.92	21.50	20.30	21.82	22.18
	4H	20.56	22.05	20.96	22.40	22.77	20.56	22.05	20.96	22.40	22.77
	6H	21.01	22.39	21.42	22.75	23.14	21.01	22.39	21.42	22.75	23.14
	8H	21.14	22.46	21.56	22.85	23.24	21.14	22.46	21.56	22.85	23.24
	12H	21.22	22.49	21.65	22.87	23.30	21.22	22.49	21.65	22.87	23.30
4H	2H	18.76	20.25	19.16	20.59	20.97	18.76	20.25	19.16	20.59	20.97
	3H	20.80	22.05	21.21	22.45	22.85	20.80	22.05	21.21	22.45	22.85
	4H	21.56	22.70	21.99	23.11	23.54	21.56	22.70	21.99	23.11	23.54
	6H	22.12	23.12	22.57	23.55	24.01	22.12	23.12	22.57	23.55	24.01
	8H	22.29	23.22	22.75	23.66	24.13	22.29	23.22	22.75	23.66	24.13
	12H	22.41	23.25	22.89	23.73	24.19	22.41	23.25	22.89	23.73	24.19
8H	4H	21.87	22.80	22.32	23.24	23.70	21.87	22.80	22.32	23.24	23.70
	6H	22.53	23.31	23.02	23.80	24.27	22.53	23.31	23.02	23.80	24.27
	8H	22.77	23.46	23.27	23.97	24.45	22.77	23.46	23.27	23.97	24.45
	12H	22.95	23.57	23.45	24.05	24.61	22.95	23.57	23.45	24.05	24.61
12H	4H	21.90	22.74	22.38	23.21	23.68	21.90	22.74	22.38	23.21	23.68
	6H	22.58	23.28	23.09	23.78	24.27	22.58	23.28	23.09	23.78	24.27
	8H	22.87	23.49	23.37	23.97	24.53	22.87	23.49	23.37	23.97	24.53