

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: P865594

Luminaire Tested: PRLX-2002-S-927-15L-L-U-S-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865594
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-S-927-15L-L-U-S-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 3
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

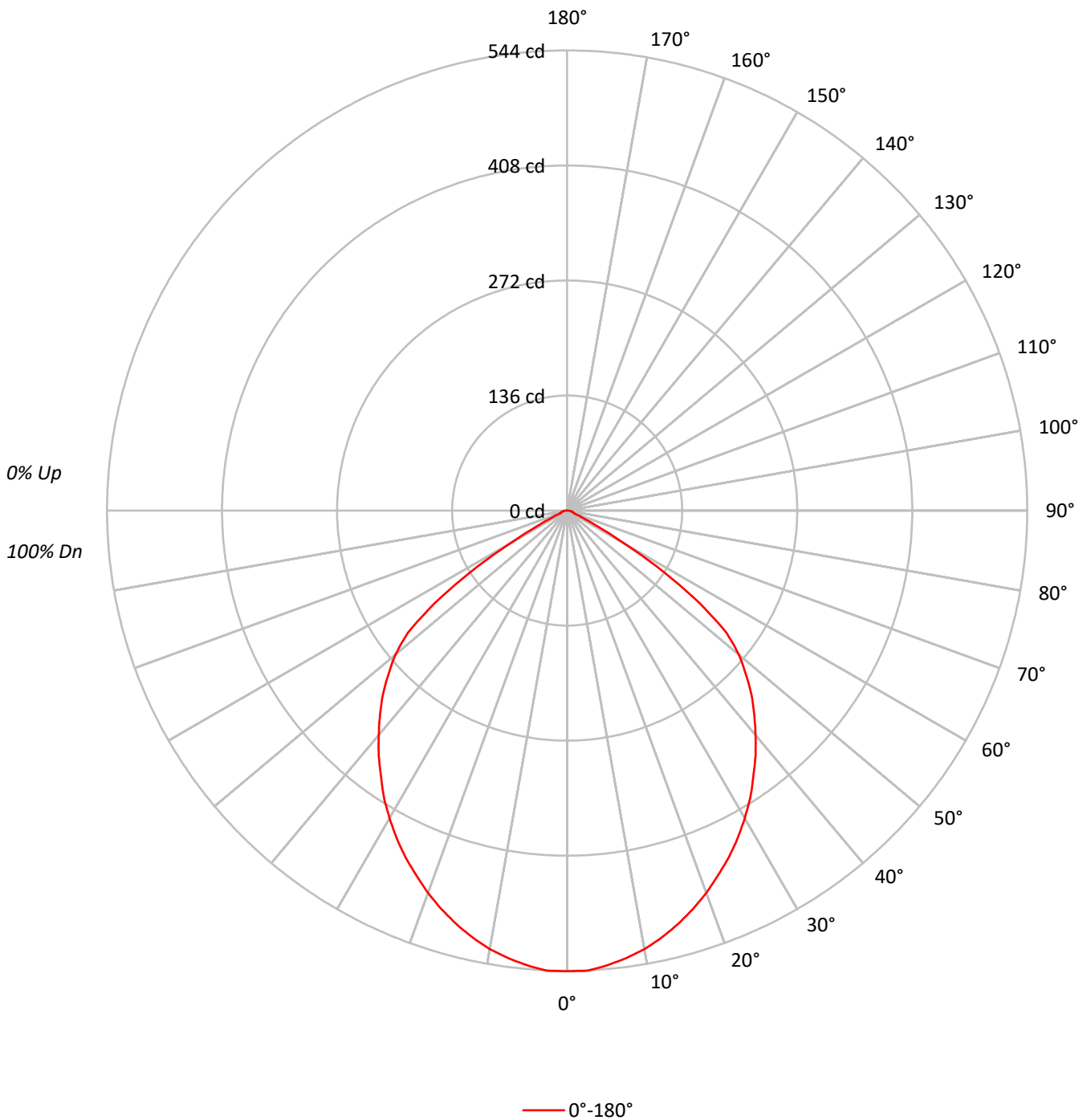
Lumens per Lamp: N/A
Luminaire Lumens: 1081.3 lumens
Efficiency: N/A
Efficacy: 69.3 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.27
Luminous Opening: Circular (Dia: 0.85' x H: 0')
CIE Type: Direct

Input Watts (W): 15.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: 0.333 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	111	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69
4	89	79	71	66	87	77	71	65	75	69	64	73	68	64	71	66	63	61
5	82	71	63	58	80	70	63	57	68	62	57	66	61	56	65	60	56	54
6	76	65	57	51	75	64	56	51	62	55	51	61	55	50	59	54	50	48
7	71	59	51	46	70	58	51	46	57	50	45	55	49	45	54	49	45	43
8	66	54	46	41	65	54	46	41	52	46	41	51	45	41	50	45	40	39
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35
10	58	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	10228
5°	10177
10°	10042
15°	9842
20°	9613
25°	9372
30°	9106
35°	8801
40°	8499
45°	8187
50°	7747
55°	6285
60°	2975
65°	907
70°	461
75°	523
80°	519
85°	776

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 8187 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.1	4.7
10°-20°	142.5	13.2
20°-30°	208.1	19.2
30°-40°	240.3	22.2
40°-50°	236.9	21.9
50°-60°	163.9	15.2
60°-70°	28.0	2.6
70°-80°	7.1	0.7
80°-90°	3.3	0.3
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°	401.8	37.2
0°-40°	642.1	59.4
0°-60°	1042.9	96.4
0°-90°	1081.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1081.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	544	
5°	540	51
15°	506	143
25°	452	208
35°	384	240
45°	308	237
55°	192	164
65°	20	28
75°	7	7
85°	4	3
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	544.5
2.5°	544.5
5°	539.7
7.5°	533.7
10°	526.5
12.5°	516.9
15°	506.1
17.5°	494.1
20°	480.9
22.5°	466.5
25°	452.2
27.5°	436.6
30°	419.8
32.5°	403.0
35°	383.8
37.5°	365.8
40°	346.6
42.5°	327.4
45°	308.2
47.5°	286.6
50°	265.1
52.5°	237.5
55°	191.9
57.5°	136.7
60°	79.2
62.5°	40.8
65°	20.4
67.5°	9.6
70°	8.4
72.5°	7.2
75°	7.2
77.5°	6.0
80°	4.8
82.5°	4.8
85°	3.6
87.5°	1.2
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	16.77	18.19	17.14	18.51	18.82	16.77	18.19	17.14	18.51	18.82
	3H	16.68	17.93	17.06	18.26	18.63	16.68	17.93	17.06	18.26	18.63
	4H	16.64	17.80	17.04	18.15	18.53	16.64	17.80	17.04	18.15	18.53
	6H	16.59	17.66	17.01	18.03	18.42	16.59	17.66	17.01	18.03	18.42
	8H	16.57	17.58	17.00	17.97	18.38	16.57	17.58	17.00	17.97	18.38
	12H	16.55	17.52	16.99	17.90	18.33	16.55	17.52	16.99	17.90	18.33
4H	2H	16.63	17.79	17.03	18.14	18.52	16.63	17.79	17.03	18.14	18.52
	3H	16.56	17.49	16.97	17.90	18.30	16.56	17.49	16.97	17.90	18.30
	4H	16.51	17.35	16.95	17.77	18.21	16.51	17.35	16.95	17.77	18.21
	6H	16.48	17.20	16.95	17.65	18.11	16.48	17.20	16.95	17.65	18.11
	8H	16.46	17.13	16.93	17.58	18.05	16.46	17.13	16.93	17.58	18.05
	12H	16.45	17.05	16.94	17.53	18.01	16.45	17.05	16.94	17.53	18.01
8H	4H	16.41	17.08	16.87	17.52	17.99	16.41	17.08	16.87	17.52	17.99
	6H	16.37	16.92	16.87	17.42	17.90	16.37	16.92	16.87	17.42	17.90
	8H	16.35	16.86	16.87	17.37	17.86	16.35	16.86	16.87	17.37	17.86
	12H	16.37	16.82	16.88	17.32	17.89	16.37	16.82	16.88	17.32	17.89
12H	4H	16.36	16.96	16.85	17.44	17.92	16.36	16.96	16.85	17.44	17.92
	6H	16.31	16.82	16.83	17.33	17.82	16.31	16.82	16.83	17.33	17.82
	8H	16.33	16.78	16.84	17.28	17.84	16.33	16.78	16.84	17.28	17.84