

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: P865583

Luminaire Tested: PRLX-2002-S-927-10L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865583
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-7)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-S-927-10L-G-U-S-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 2
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

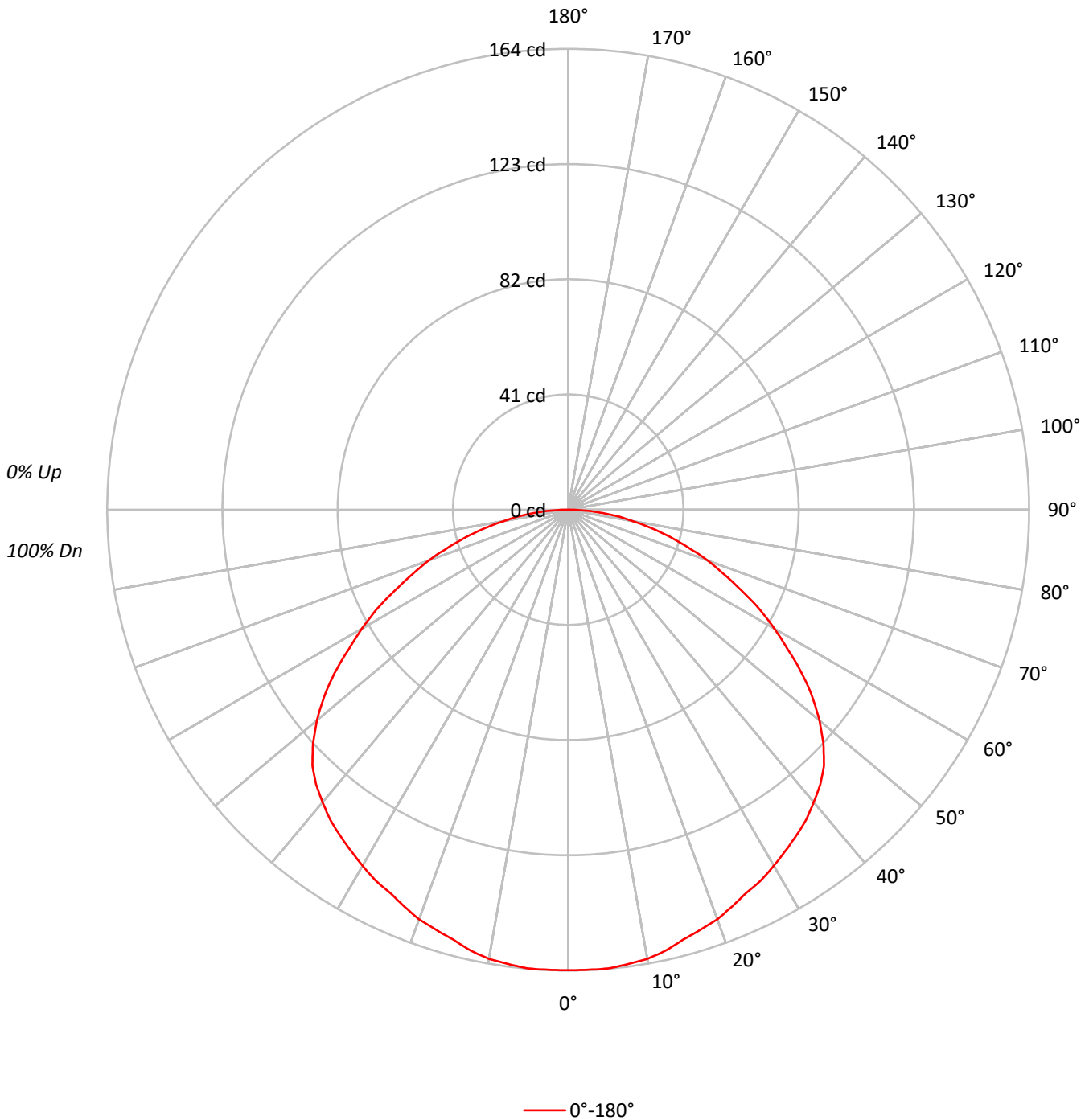
Lumens per Lamp: N/A
Luminaire Lumens: 527.8 lumens
Efficiency: N/A
Efficacy: 50.3 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.49
Luminous Opening: Circular (Dia: 0.85' x H: 0')
CIE Type: Direct

Input Watts (W): 10.5
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	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	89	82	76	95	88	81	76	84	78	74	81	76	72	78	74	70	68
3	89	78	70	63	87	77	69	62	74	67	61	71	65	60	68	63	59	57
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	60	55	50	48
5	75	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39	51	44	38	49	43	38	36
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	44	38	33	31
8	59	45	37	31	57	45	36	30	43	36	30	42	35	30	41	34	30	28
9	55	41	33	27	54	41	33	27	40	32	27	39	32	27	38	31	27	25
10	52	38	30	25	50	38	30	25	37	29	24	36	29	24	35	29	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3079
5°	3091
10°	3096
15°	3078
20°	3100
25°	3115
30°	3173
35°	3245
40°	3332
45°	3419
50°	3410
55°	3324
60°	3186
65°	3022
70°	2900
75°	2729
80°	2510
85°	2414

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 47.5°
 Luminance: 3423 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.6	3.0
10°-20°	44.8	8.5
20°-30°	69.6	13.2
30°-40°	88.7	16.8
40°-50°	98.7	18.7
50°-60°	90.4	17.1
60°-70°	67.7	12.8
70°-80°	39.8	7.5
80°-90°	12.5	2.4
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°	130.0	24.6
0°-40°	218.7	41.4
0°-60°	407.9	77.3
0°-90°	527.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	527.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	164	
5°	164	16
15°	158	45
25°	150	70
35°	142	89
45°	129	99
55°	102	90
65°	68	68
75°	38	40
85°	11	13
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	163.9
2.5°	163.9
5°	163.9
7.5°	163.1
10°	162.3
12.5°	160.7
15°	158.3
17.5°	156.7
20°	155.1
22.5°	152.7
25°	150.3
27.5°	148.7
30°	146.3
32.5°	143.9
35°	141.5
37.5°	139.1
40°	135.9
42.5°	132.7
45°	128.7
47.5°	123.1
50°	116.7
52.5°	109.5
55°	101.5
57.5°	92.7
60°	84.8
62.5°	76.8
65°	68.0
67.5°	60.0
70°	52.8
72.5°	44.8
75°	37.6
77.5°	30.4
80°	23.2
82.5°	17.6
85°	11.2
87.5°	5.6
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	16.41	18.09	16.77	18.41	18.72	16.41	18.09	16.77	18.41	18.72
	3H	18.20	19.72	18.57	20.05	20.41	18.20	19.72	18.57	20.05	20.41
	4H	18.89	20.33	19.29	20.68	21.05	18.89	20.33	19.29	20.68	21.05
	6H	19.43	20.76	19.84	21.13	21.52	19.43	20.76	19.84	21.13	21.52
	8H	19.62	20.90	20.05	21.29	21.69	19.62	20.90	20.05	21.29	21.69
	12H	19.77	21.00	20.20	21.38	21.81	19.77	21.00	20.20	21.38	21.81
4H	2H	17.03	18.47	17.43	18.82	19.19	17.03	18.47	17.43	18.82	19.19
	3H	19.06	20.27	19.47	20.66	21.06	19.06	20.27	19.47	20.66	21.06
	4H	19.89	20.99	20.32	21.40	21.83	19.89	20.99	20.32	21.40	21.83
	6H	20.56	21.52	21.01	21.96	22.41	20.56	21.52	21.01	21.96	22.41
	8H	20.82	21.72	21.27	22.16	22.62	20.82	21.72	21.27	22.16	22.62
	12H	21.02	21.83	21.50	22.30	22.77	21.02	21.83	21.50	22.30	22.77
8H	4H	20.22	21.12	20.68	21.57	22.03	20.22	21.12	20.68	21.57	22.03
	6H	21.03	21.78	21.52	22.27	22.74	21.03	21.78	21.52	22.27	22.74
	8H	21.37	22.05	21.88	22.55	23.03	21.37	22.05	21.88	22.55	23.03
	12H	21.66	22.26	22.17	22.75	23.31	21.66	22.26	22.17	22.75	23.31
12H	4H	20.27	21.08	20.75	21.55	22.02	20.27	21.08	20.75	21.55	22.02
	6H	21.10	21.78	21.61	22.28	22.77	21.10	21.78	21.61	22.28	22.77
	8H	21.51	22.11	22.01	22.60	23.16	21.51	22.11	22.01	22.60	23.16