

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: P865560

Luminaire Tested: PRLX-2001-S-940-20L-L-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865560
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-S-940-20L-L-U-S-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, FLAT LENS, TAPERED DRUM WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 4
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

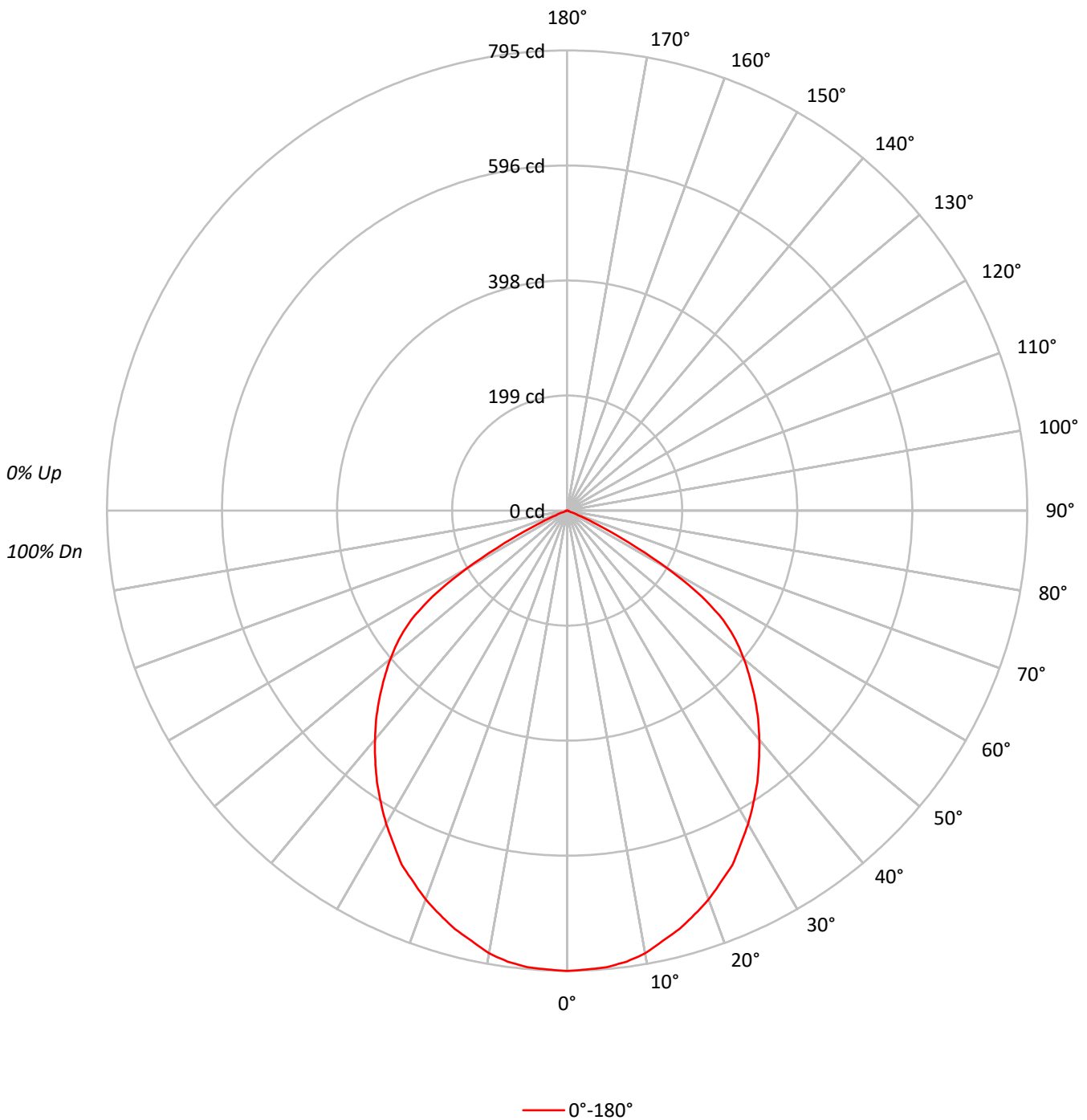
Lumens per Lamp: N/A
Luminaire Lumens: 1668.6 lumens
Efficiency: N/A
Efficacy: 76.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.29
Luminous Opening: Circular (Dia: 0.92' x H: 0')
CIE Type: Direct

Input Watts (W): 21.8
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	111	108	104	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68
4	88	78	70	64	86	77	70	64	74	68	63	72	67	62	70	65	62	60
5	82	70	62	56	80	69	62	56	67	61	56	65	60	55	64	59	54	53
6	76	64	56	50	74	63	55	50	61	54	49	59	53	49	58	53	48	47
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43	42
8	66	53	45	40	64	52	45	40	51	44	40	50	44	39	49	43	39	37
9	61	49	41	36	60	48	41	36	47	41	36	46	40	36	45	40	36	34
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	36	32	31

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	12973
5°	12960
10°	12863
15°	12640
20°	12408
25°	12158
30°	11773
35°	11403
40°	10997
45°	10576
50°	10114
55°	9367
60°	6593
65°	2165
70°	176
75°	120
80°	178
85°	356

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 10576 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.1	4.5
10°-20°	210.9	12.6
20°-30°	310.0	18.6
30°-40°	357.8	21.4
40°-50°	353.7	21.2
50°-60°	283.6	17.0
60°-70°	73.5	4.4
70°-80°	2.2	0.1
80°-90°	1.8	0.1
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°	595.9	35.7
0°-40°	953.8	57.2
0°-60°	1591.0	95.4
0°-90°	1668.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1668.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	795	
5°	792	75
15°	749	211
25°	676	310
35°	573	358
45°	458	354
55°	329	284
65°	56	73
75°	2	2
85°	2	2
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	795.4
2.5°	793.5
5°	791.6
7.5°	786.0
10°	776.7
12.5°	761.7
15°	748.6
17.5°	731.8
20°	714.9
22.5°	694.3
25°	675.6
27.5°	649.4
30°	625.1
32.5°	598.9
35°	572.7
37.5°	544.6
40°	516.5
42.5°	488.5
45°	458.5
47.5°	428.6
50°	398.6
52.5°	366.8
55°	329.4
57.5°	275.1
60°	202.1
62.5°	121.6
65°	56.1
67.5°	20.6
70°	3.7
72.5°	1.9
75°	1.9
77.5°	1.9
80°	1.9
82.5°	1.9
85°	1.9
87.5°	1.9
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	19.68	21.13	20.05	21.44	21.76	19.68	21.13	20.05	21.44	21.76
	3H	19.58	20.86	19.96	21.19	21.55	19.58	20.86	19.96	21.19	21.55
	4H	19.52	20.70	19.92	21.05	21.43	19.52	20.70	19.92	21.05	21.43
	6H	19.45	20.54	19.86	20.91	21.30	19.45	20.54	19.86	20.91	21.30
	8H	19.41	20.44	19.84	20.83	21.24	19.41	20.44	19.84	20.83	21.24
	12H	19.37	20.36	19.80	20.74	21.17	19.37	20.36	19.80	20.74	21.17
4H	2H	19.59	20.77	19.99	21.12	21.50	19.59	20.77	19.99	21.12	21.50
	3H	19.49	20.45	19.90	20.85	21.25	19.49	20.45	19.90	20.85	21.25
	4H	19.41	20.26	19.84	20.68	21.12	19.41	20.26	19.84	20.68	21.12
	6H	19.34	20.07	19.80	20.52	20.98	19.34	20.07	19.80	20.52	20.98
	8H	19.29	19.97	19.76	20.42	20.89	19.29	19.97	19.76	20.42	20.89
	12H	19.25	19.86	19.73	20.34	20.81	19.25	19.86	19.73	20.34	20.81
8H	4H	19.29	19.97	19.75	20.42	20.89	19.29	19.97	19.75	20.42	20.89
	6H	19.19	19.76	19.69	20.25	20.73	19.19	19.76	19.69	20.25	20.73
	8H	19.13	19.64	19.65	20.15	20.65	19.13	19.64	19.65	20.15	20.65
	12H	19.09	19.55	19.60	20.04	20.61	19.09	19.55	19.60	20.04	20.61
12H	4H	19.25	19.85	19.73	20.33	20.81	19.25	19.85	19.73	20.33	20.81
	6H	19.13	19.64	19.65	20.15	20.64	19.13	19.64	19.65	20.15	20.64
	8H	19.09	19.54	19.60	20.04	20.60	19.09	19.54	19.60	20.04	20.60