

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: P865562

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865562
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2001-S-940-20L-L-U-S-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, FLAT LENS, TAPERED DRUM WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 4
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

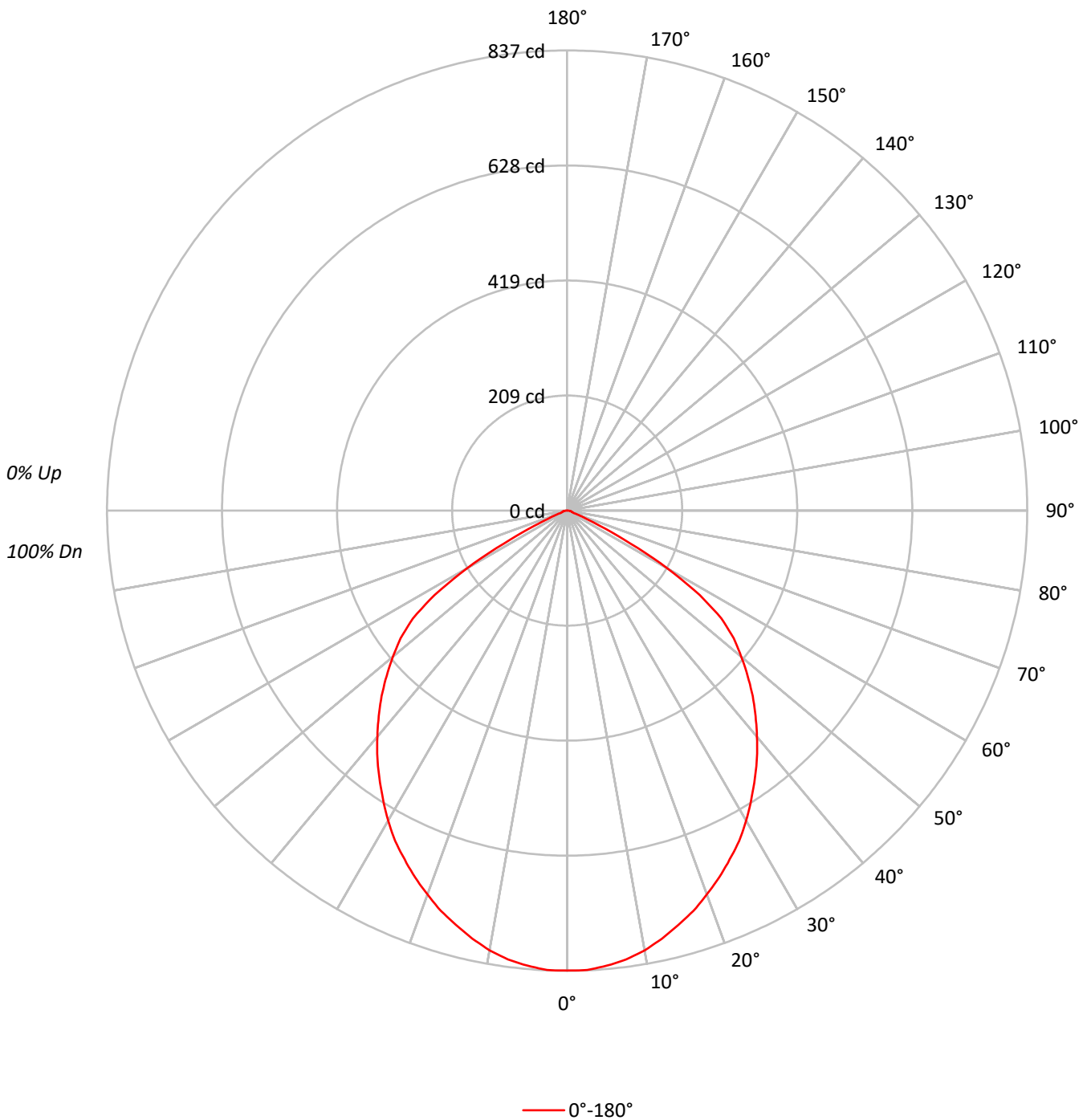
Lumens per Lamp: N/A
Luminaire Lumens: 1752.2 lumens
Efficiency: N/A
Efficacy: 80.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.28
Luminous Opening: Circular (Dia: 0.92' x H: 0')
CIE Type: Direct

Input Watts (W): 21.8
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: 0.5 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	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89
2	103	96	91	86	101	94	89	85	91	87	83	88	84	81	85	82	80	78
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	70	68
4	88	77	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59
5	81	70	62	56	79	69	61	56	67	60	55	65	59	55	63	58	54	52
6	75	63	55	50	74	62	55	49	61	54	49	59	53	49	58	52	48	46
7	70	58	50	44	68	57	49	44	56	49	44	54	48	43	53	47	43	41
8	65	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37
9	61	49	41	36	60	48	41	36	47	40	36	46	40	35	45	39	35	34
10	57	45	38	33	56	45	37	33	44	37	32	43	37	32	42	36	32	31

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	13645
5°	13604
10°	13451
15°	13177
20°	12896
25°	12596
30°	12266
35°	11849
40°	11436
45°	11007
50°	10495
55°	9739
60°	6899
65°	2528
70°	625
75°	592
80°	704
85°	692

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 11007 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.7	4.5
10°-20°	220.0	12.6
20°-30°	322.4	18.4
30°-40°	372.3	21.2
40°-50°	367.6	21.0
50°-60°	295.1	16.8
60°-70°	82.3	4.7
70°-80°	9.7	0.6
80°-90°	4.1	0.2
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°	621.2	35.5
0°-40°	993.5	56.7
0°-60°	1656.2	94.5
0°-90°	1752.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1752.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	837	
5°	831	79
15°	780	220
25°	700	322
35°	595	372
45°	477	368
55°	342	295
65°	66	82
75°	9	10
85°	4	4
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	836.6
2.5°	836.6
5°	830.9
7.5°	823.5
10°	812.2
12.5°	797.3
15°	780.4
17.5°	763.6
20°	743.0
22.5°	722.4
25°	699.9
27.5°	677.5
30°	651.3
32.5°	623.2
35°	595.1
37.5°	567.1
40°	537.1
42.5°	507.2
45°	477.2
47.5°	445.4
50°	413.6
52.5°	381.8
55°	342.5
57.5°	286.3
60°	211.5
62.5°	129.1
65°	65.5
67.5°	29.9
70°	13.1
72.5°	9.4
75°	9.4
77.5°	7.5
80°	7.5
82.5°	5.6
85°	3.7
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	19.78	21.24	20.15	21.55	21.87	19.78	21.24	20.15	21.55	21.87
	3H	19.71	20.99	20.08	21.32	21.68	19.71	20.99	20.08	21.32	21.68
	4H	19.65	20.85	20.05	21.20	21.58	19.65	20.85	20.05	21.20	21.58
	6H	19.59	20.69	20.00	21.06	21.45	19.59	20.69	20.00	21.06	21.45
	8H	19.56	20.60	19.99	20.99	21.40	19.56	20.60	19.99	20.99	21.40
	12H	19.53	20.52	19.96	20.91	21.34	19.53	20.52	19.96	20.91	21.34
4H	2H	19.70	20.90	20.10	21.25	21.63	19.70	20.90	20.10	21.25	21.63
	3H	19.64	20.61	20.05	21.01	21.41	19.64	20.61	20.05	21.01	21.41
	4H	19.57	20.43	20.01	20.85	21.29	19.57	20.43	20.01	20.85	21.29
	6H	19.52	20.26	19.98	20.71	21.17	19.52	20.26	19.98	20.71	21.17
	8H	19.48	20.18	19.95	20.62	21.09	19.48	20.18	19.95	20.62	21.09
	12H	19.45	20.07	19.93	20.55	21.02	19.45	20.07	19.93	20.55	21.02
8H	4H	19.46	20.15	19.93	20.60	21.07	19.46	20.15	19.93	20.60	21.07
	6H	19.39	19.96	19.89	20.46	20.94	19.39	19.96	19.89	20.46	20.94
	8H	19.35	19.86	19.87	20.38	20.87	19.35	19.86	19.87	20.38	20.87
	12H	19.32	19.78	19.83	20.28	20.84	19.32	19.78	19.83	20.28	20.84
12H	4H	19.42	20.04	19.90	20.52	20.99	19.42	20.04	19.90	20.52	20.99
	6H	19.33	19.85	19.85	20.36	20.85	19.33	19.85	19.85	20.36	20.85
	8H	19.31	19.77	19.82	20.27	20.83	19.31	19.77	19.82	20.27	20.83