

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: P1245275

Luminaire Tested: PRLX-NIM-S-940-07L-U-LF

Issue Date: 1/30/2026

Test Information

Test Method: LM-79-2019
Report Number: P1245275
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2412-299-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/30/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-NIM-S-940-07L-U-LF
Description: 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, LAYERED FINE SHADE TEXTURE LIGHT LEVEL 3
Light Source: -
Ballast/Driver: -

Summary

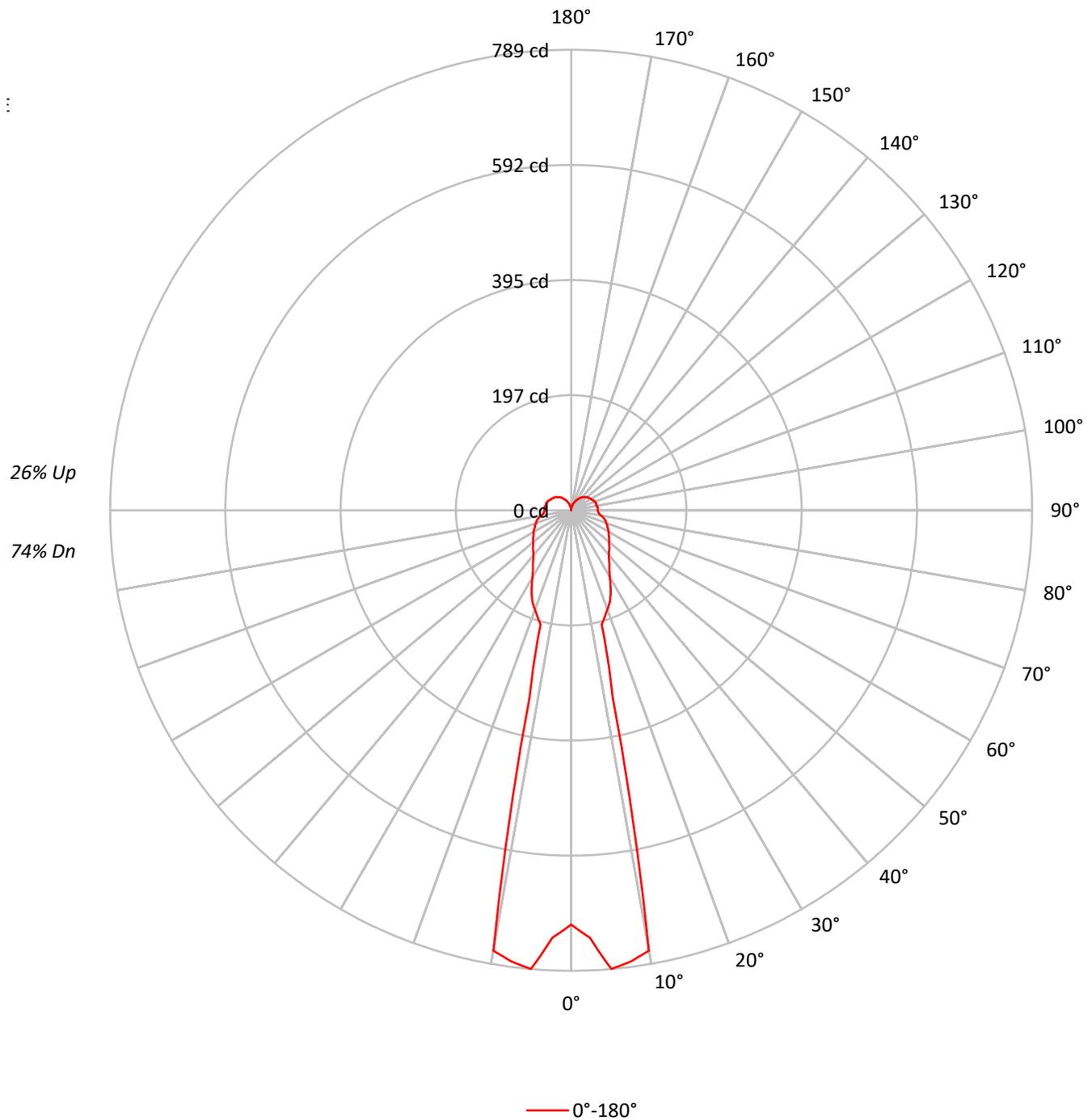
Lumens per Lamp: N/A
Luminaire Lumens: 842.9 lumens
Efficiency: N/A
Efficacy: 52.0 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.4
Luminous Opening: Rectangular w/ Sides (W: 0.58' x L: 0.58' x H: 0.87')
CIE Type: Semi-Direct

Input Watts (W): 16.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 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	113	113	113	113	107	107	107	107	96	96	96		87	87	87		78	78	78	74
1	101	96	91	87	96	91	87	83	82	79	76		74	71	69		66	64	62	58
2	92	84	77	71	87	80	73	68	72	67	63		65	61	57		58	55	52	49
3	85	74	66	60	80	71	64	58	64	58	53		58	53	49		52	48	45	42
4	78	67	58	52	74	64	56	50	58	52	47		52	47	43		47	43	40	37
5	72	60	52	46	69	58	50	44	53	46	41		48	43	39		44	39	36	33
6	68	55	47	41	64	53	45	40	48	42	37		44	39	35		41	36	33	30
7	63	51	43	37	60	49	41	36	45	39	34		41	36	32		38	33	30	28
8	59	47	39	34	56	45	38	33	42	36	31		39	33	30		36	31	28	26
9	56	44	36	31	53	42	35	30	39	33	29		36	31	27		34	29	26	24
10	53	41	34	29	51	40	33	28	37	31	27		34	29	26		32	28	24	23

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	22459
5°	22162
10°	19487
15°	4732
20°	3948
25°	3286
30°	2597
35°	2154
40°	1840
45°	1665
50°	1508
55°	1392
60°	1316
65°	1220
70°	1158
75°	1104
80°	996
85°	947

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1665 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.6	8.7
10°-20°	78.1	9.3
20°-30°	72.7	8.6
30°-40°	71.6	8.5
40°-50°	71.4	8.5
50°-60°	71.0	8.4
60°-70°	68.4	8.1
70°-80°	62.3	7.4
80°-90°	51.8	6.1
90°-100°	49.5	5.9
100°-110°	46.5	5.5
110°-120°	40.8	4.8
120°-130°	33.3	3.9
130°-140°	24.8	2.9
140°-150°	16.0	1.9
150°-160°	8.3	1.0
160°-170°	2.9	0.3
170°-180°	0.3	0.0
0°-30°	224.3	26.6
0°-40°	295.9	35.1
0°-60°	438.3	52.0
0°-90°	620.7	73.6
90°-120°	136.8	16.2
90°-150°	210.8	25.0
90°-180°	222.0	26.3
0°-180°	842.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	710	
5°	789	74
15°	202	78
25°	160	73
35°	114	72
45°	93	71
55°	79	71
65°	68	68
75°	59	62
85°	47	39
90°	46	25
95°	46	37
105°	44	46
115°	41	41
125°	36	33
135°	32	25
145°	26	16
155°	18	8
165°	9	3
175°	2	0
180°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	709.9
2.5°	732.7
5°	788.9
7.5°	779.8
10°	766.1
12.5°	328.3
15°	202.2
17.5°	191.5
20°	180.9
22.5°	171.8
25°	159.6
27.5°	145.9
30°	132.3
32.5°	121.6
35°	114.0
37.5°	106.4
40°	100.3
42.5°	95.8
45°	92.7
47.5°	88.2
50°	85.1
52.5°	82.1
55°	79.0
57.5°	76.0
60°	74.5
62.5°	71.4
65°	68.4
67.5°	66.9
70°	63.8
72.5°	62.3
75°	59.3
77.5°	56.2
80°	51.7
82.5°	48.6
85°	47.1
87.5°	45.6
90°	45.6
92.5°	45.6
95°	45.6
97.5°	45.6
100°	44.1
102.5°	44.1
105°	44.1
107.5°	44.1
110°	42.6

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	42.6
115°	41.0
117.5°	39.5
120°	39.5
122.5°	38.0
125°	36.5
127.5°	36.5
130°	35.0
132.5°	33.4
135°	31.9
137.5°	30.4
140°	28.9
142.5°	27.4
145°	25.8
147.5°	22.8
150°	21.3
152.5°	19.8
155°	18.2
157.5°	15.2
160°	13.7
162.5°	12.2
165°	9.1
167.5°	7.6
170°	6.1
172.5°	3.0
175°	1.5
177.5°	0.0
180°	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	9.7	10.8	10.4	11.6	12.5	9.7	10.8	10.4	11.6	12.5
	3H	12.0	13.0	12.7	13.8	14.7	12.0	13.0	12.7	13.8	14.7
	4H	13.1	14.1	13.8	14.8	15.8	13.1	14.1	13.8	14.8	15.8
	6H	14.0	15.0	14.8	15.7	16.7	14.0	15.0	14.8	15.7	16.7
	8H	14.5	15.4	15.2	16.1	17.1	14.5	15.4	15.2	16.1	17.1
	12H	14.9	15.7	15.7	16.5	17.5	14.9	15.7	15.7	16.5	17.5
4H	2H	10.3	11.3	11.0	12.0	13.0	10.3	11.3	11.0	12.0	13.0
	3H	12.8	13.7	13.6	14.5	15.4	12.8	13.7	13.6	14.5	15.4
	4H	14.0	14.8	14.8	15.6	16.6	14.0	14.8	14.8	15.6	16.6
	6H	15.2	15.9	16.0	16.7	17.7	15.2	15.9	16.0	16.7	17.7
	8H	15.7	16.3	16.5	17.1	18.1	15.7	16.3	16.5	17.1	18.1
	12H	16.2	16.8	17.0	17.6	18.6	16.2	16.8	17.0	17.6	18.6
8H	4H	14.4	15.1	15.2	15.9	16.9	14.4	15.1	15.2	15.9	16.9
	6H	15.7	16.3	16.6	17.1	18.1	15.7	16.3	16.6	17.1	18.1
	8H	16.4	16.9	17.2	17.7	18.7	16.4	16.9	17.2	17.7	18.7
	12H	17.0	17.5	17.9	18.3	19.4	17.0	17.5	17.9	18.3	19.4
12H	4H	14.5	15.1	15.3	15.9	16.9	14.5	15.1	15.3	15.9	16.9
	6H	15.9	16.4	16.7	17.2	18.2	15.9	16.4	16.7	17.2	18.2
	8H	16.6	17.0	17.4	17.9	18.9	16.6	17.0	17.4	17.9	18.9

(END OF REPORT)