

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: P1245272

Luminaire Tested: PRLX-NIM-S-940-05L-U-NL

Issue Date: 1/30/2026

Test Information

Test Method: LM-79-2019
Report Number: P1245272
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-940-05L-U-NL
Description: 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, NATURAL LINES SHADE TEXTURE
LIGHT LEVEL 2
Light Source: -
Ballast/Driver: -

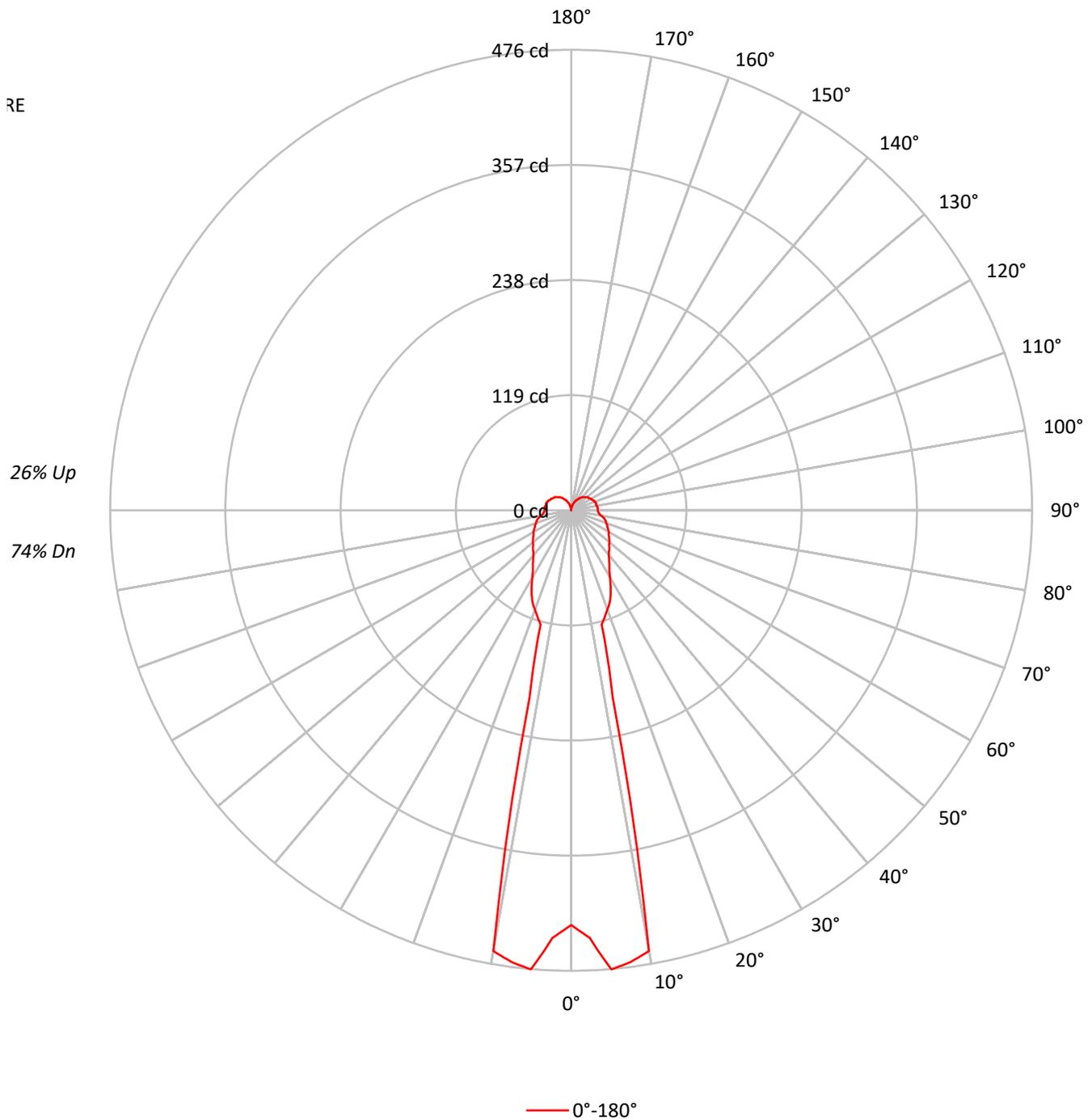
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 508.9 lumens
Efficiency: N/A
Efficacy: 45.8 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): 11.1
Input Voltage (V): NR
Input Current (Ain): 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°	13559
5°	13383
10°	11767
15°	2857
20°	2383
25°	1985
30°	1568
35°	1300
40°	1112
45°	1006
50°	911
55°	841
60°	795
65°	736
70°	699
75°	667
80°	601
85°	573

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1006 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.4	8.7
10°-20°	47.1	9.3
20°-30°	43.9	8.6
30°-40°	43.2	8.5
40°-50°	43.1	8.5
50°-60°	42.9	8.4
60°-70°	41.3	8.1
70°-80°	37.6	7.4
80°-90°	31.3	6.1
90°-100°	29.9	5.9
100°-110°	28.0	5.5
110°-120°	24.6	4.8
120°-130°	20.1	3.9
130°-140°	15.0	2.9
140°-150°	9.6	1.9
150°-160°	5.0	1.0
160°-170°	1.7	0.3
170°-180°	0.2	0.0
0°-30°	135.5	26.6
0°-40°	178.7	35.1
0°-60°	264.6	52.0
0°-90°	374.8	73.6
90°-120°	82.5	16.2
90°-150°	127.2	25.0
90°-180°	134.0	26.3
0°-180°	508.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	429	
5°	476	44
15°	122	47
25°	96	44
35°	69	43
45°	56	43
55°	48	43
65°	41	41
75°	36	38
85°	28	24
90°	28	15
95°	28	22
105°	27	28
115°	25	25
125°	22	20
135°	19	15
145°	16	10
155°	11	5
165°	6	2
175°	1	0
180°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	428.6
2.5°	442.4
5°	476.4
7.5°	470.9
10°	462.6
12.5°	198.3
15°	122.1
17.5°	115.6
20°	109.2
22.5°	103.7
25°	96.4
27.5°	88.1
30°	79.9
32.5°	73.4
35°	68.8
37.5°	64.2
40°	60.6
42.5°	57.8
45°	56.0
47.5°	53.2
50°	51.4
52.5°	49.6
55°	47.7
57.5°	45.9
60°	45.0
62.5°	43.1
65°	41.3
67.5°	40.4
70°	38.5
72.5°	37.6
75°	35.8
77.5°	34.0
80°	31.2
82.5°	29.4
85°	28.5
87.5°	27.5
90°	27.5
92.5°	27.5
95°	27.5
97.5°	27.5
100°	26.6
102.5°	26.6
105°	26.6
107.5°	26.6
110°	25.7

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	25.7
115°	24.8
117.5°	23.9
120°	23.9
122.5°	22.9
125°	22.0
127.5°	22.0
130°	21.1
132.5°	20.2
135°	19.3
137.5°	18.4
140°	17.4
142.5°	16.5
145°	15.6
147.5°	13.8
150°	12.8
152.5°	11.9
155°	11.0
157.5°	9.2
160°	8.3
162.5°	7.3
165°	5.5
167.5°	4.6
170°	3.7
172.5°	1.8
175°	0.9
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	7.9	9.1	8.7	9.8	10.7	7.9	9.1	8.7	9.8	10.7
	3H	10.3	11.3	11.0	12.0	13.0	10.3	11.3	11.0	12.0	13.0
	4H	11.3	12.3	12.1	13.1	14.0	11.3	12.3	12.1	13.1	14.0
	6H	12.3	13.2	13.1	14.0	14.9	12.3	13.2	13.1	14.0	14.9
	8H	12.7	13.6	13.5	14.4	15.3	12.7	13.6	13.5	14.4	15.3
	12H	13.1	14.0	13.9	14.8	15.7	13.1	14.0	13.9	14.8	15.7
4H	2H	8.5	9.5	9.3	10.3	11.2	8.5	9.5	9.3	10.3	11.2
	3H	11.1	11.9	11.8	12.7	13.7	11.1	11.9	11.8	12.7	13.7
	4H	12.3	13.1	13.1	13.9	14.8	12.3	13.1	13.1	13.9	14.8
	6H	13.4	14.1	14.2	14.9	15.9	13.4	14.1	14.2	14.9	15.9
	8H	13.9	14.6	14.7	15.4	16.4	13.9	14.6	14.7	15.4	16.4
	12H	14.4	15.0	15.3	15.9	16.9	14.4	15.0	15.3	15.9	16.9
8H	4H	12.7	13.3	13.5	14.1	15.1	12.7	13.3	13.5	14.1	15.1
	6H	14.0	14.5	14.8	15.4	16.4	14.0	14.5	14.8	15.4	16.4
	8H	14.6	15.1	15.5	16.0	17.0	14.6	15.1	15.5	16.0	17.0
	12H	15.3	15.7	16.1	16.6	17.6	15.3	15.7	16.1	16.6	17.6
12H	4H	12.7	13.3	13.6	14.2	15.2	12.7	13.3	13.6	14.2	15.2
	6H	14.1	14.6	14.9	15.4	16.5	14.1	14.6	14.9	15.4	16.5
	8H	14.8	15.3	15.6	16.1	17.2	14.8	15.3	15.6	16.1	17.2

(END OF REPORT)