

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: P1245100

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

Issue Date: 1/30/2026

Test Information

Test Method: LM-79-2019
Report Number: P1245100
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2412-299-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/30/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-NIM-L-940-05L-U-NL
Description: 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, NATURAL LINES SHADE TEXTURE
LIGHT LEVEL 2
Light Source: -
Ballast/Driver: -

Summary

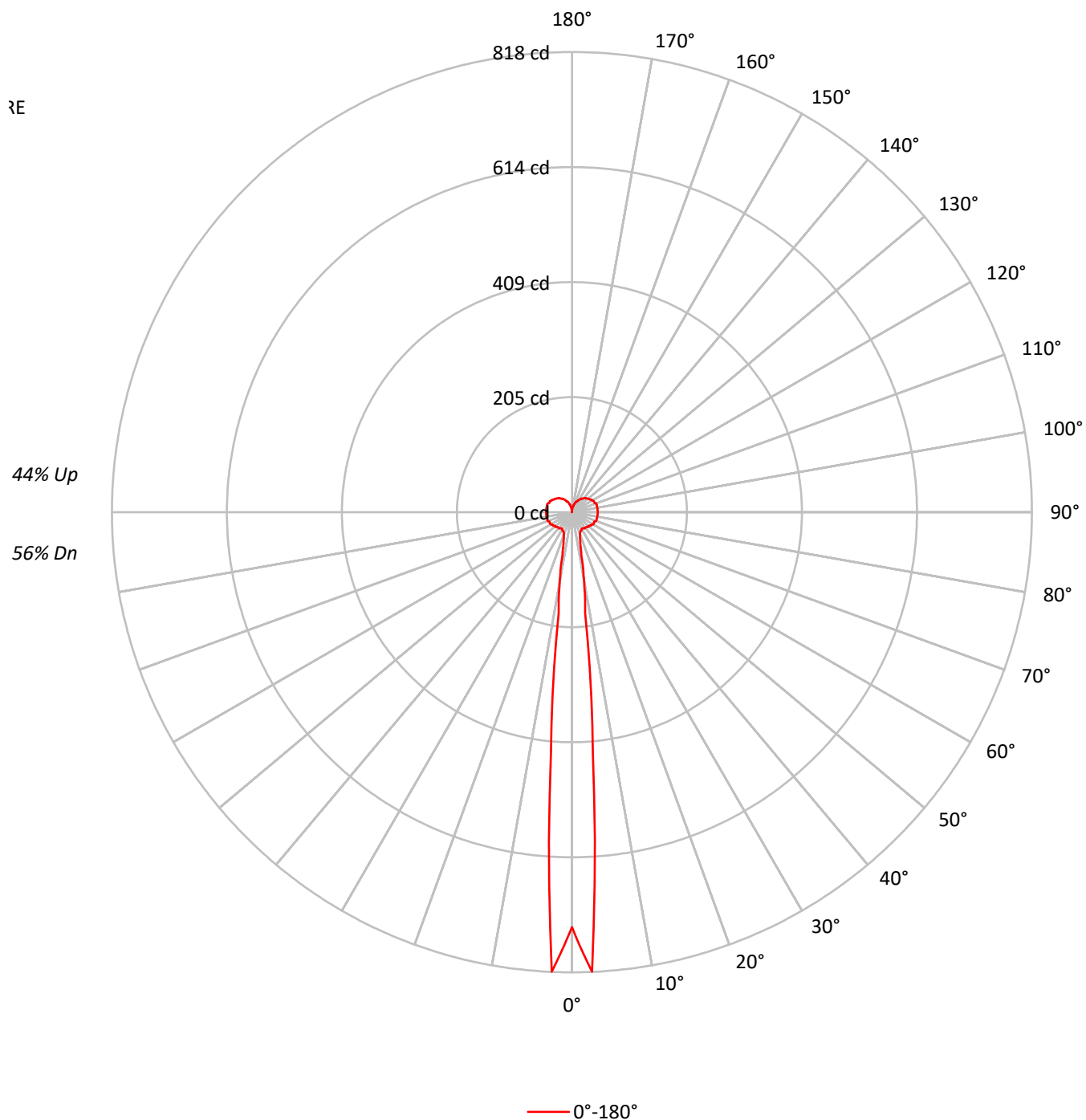
Lumens per Lamp: N/A
Luminaire Lumens: 532.9 lumens
Efficiency: N/A
Efficacy: 36.0 lumens/watt
Spacing Criteria (0/90/45): 0.19 / 0.19 / 0.18
Luminous Opening: Rectangular w/ Sides (W: 0.58' x L: 0.58' x H: 1.92')
CIE Type: General Diffuse

Input Watts (W): 14.8
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

TEST NUMBER: P1245100

CATALOG NUMBER: PRLX-NIM-L-940-05L-U-NL

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			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61	56		
1	95	89	83	78	87	82	77	73	70	66	62	58	55	53	48	45	43	38		
2	85	76	68	61	78	70	63	57	59	54	49	49	45	42	40	37	34	30		
3	77	66	57	50	71	61	53	47	52	45	40	43	38	34	35	31	28	24		
4	71	58	49	42	65	54	46	40	46	39	34	38	33	29	31	27	24	20		
5	65	52	43	36	60	48	40	34	41	35	30	34	29	25	28	24	21	18		
6	60	47	38	32	55	44	36	30	37	31	26	31	26	22	26	22	19	16		
7	56	43	34	28	51	40	32	27	34	28	23	29	24	20	24	20	17	15		
8	52	39	31	25	48	36	29	24	32	25	21	27	22	18	23	19	16	13		
9	49	36	28	23	45	34	27	22	29	23	19	25	20	17	21	17	15	12		
10	46	33	26	21	43	31	25	20	27	22	18	24	19	16	20	16	14	12		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	23332
5°	10564
10°	2516
15°	998
20°	632
25°	505
30°	434
35°	402
40°	402
45°	382
50°	389
55°	399
60°	411
65°	405
70°	422
75°	422
80°	425
85°	431

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 90°

Luminance: 441 cd/sqm

TEST NUMBER: P1245100

CATALOG NUMBER: PRLX-NIM-L-940-05L-U-NL

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.3	5.9
10°-20°	17.8	3.3
20°-30°	17.3	3.2
30°-40°	22.2	4.2
40°-50°	29.0	5.5
50°-60°	36.5	6.8
60°-70°	43.5	8.2
70°-80°	48.5	9.1
80°-90°	50.0	9.4
90°-100°	50.0	9.4
100°-110°	48.5	9.1
110°-120°	43.2	8.1
120°-130°	35.5	6.7
130°-140°	27.1	5.1
140°-150°	18.3	3.4
150°-160°	10.0	1.9
160°-170°	4.0	0.8
170°-180°	0.5	0.1
0°-30°	66.3	12.4
0°-40°	88.5	16.6
0°-60°	154.0	28.9
0°-90°	295.9	55.5
90°-120°	141.6	26.6
90°-150°	222.4	41.7
90°-180°	237.0	44.5
0°-180°	532.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	738	
5°	428	31
15°	57	18
25°	37	17
35°	34	22
45°	37	29
55°	41	36
65°	44	43
75°	46	48
85°	46	37
90°	46	25
95°	46	37
105°	46	48
115°	44	43
125°	39	35
135°	34	27
145°	30	18
155°	21	10
165°	14	4
175°	2	0
180°	0	

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CATALOG NUMBER: PRLX-NIM-L-940-05L-U-NL

CANDELA DISTRIBUTION (FULL):

0°	
0°	737.5
2.5°	817.7
5°	428.3
7.5°	180.9
10°	123.7
12.5°	77.9
15°	57.3
17.5°	48.1
20°	41.2
22.5°	38.9
25°	36.6
27.5°	36.6
30°	34.4
32.5°	34.4
35°	34.4
37.5°	36.6
40°	36.6
42.5°	36.6
45°	36.6
47.5°	38.9
50°	38.9
52.5°	38.9
55°	41.2
57.5°	41.2
60°	43.5
62.5°	43.5
65°	43.5
67.5°	43.5
70°	45.8
72.5°	45.8
75°	45.8
77.5°	45.8
80°	45.8
82.5°	45.8
85°	45.8
87.5°	45.8
90°	45.8
92.5°	45.8
95°	45.8
97.5°	45.8
100°	45.8
102.5°	45.8
105°	45.8
107.5°	45.8
110°	45.8

TEST NUMBER: P1245100

CATALOG NUMBER: PRLX-NIM-L-940-05L-U-NL

CANDELA DISTRIBUTION (continued):

	0°
112.5°	43.5
115°	43.5
117.5°	43.5
120°	41.2
122.5°	41.2
125°	38.9
127.5°	38.9
130°	36.6
132.5°	36.6
135°	34.4
137.5°	34.4
140°	32.1
142.5°	29.8
145°	29.8
147.5°	27.5
150°	25.2
152.5°	22.9
155°	20.6
157.5°	20.6
160°	18.3
162.5°	16.0
165°	13.7
167.5°	11.5
170°	9.2
172.5°	6.9
175°	2.3
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	4.3	5.3	5.1	6.2	7.4	4.3	5.3	5.1	6.2	7.4
	3H	7.3	8.3	8.2	9.2	10.4	7.3	8.3	8.2	9.2	10.4
	4H	8.8	9.7	9.7	10.7	11.9	8.8	9.7	9.7	10.7	11.9
	6H	10.3	11.1	11.2	12.0	13.3	10.3	11.1	11.2	12.0	13.3
	8H	10.9	11.7	11.9	12.7	13.9	10.9	11.7	11.9	12.7	13.9
	12H	11.6	12.4	12.5	13.3	14.6	11.6	12.4	12.5	13.3	14.6
4H	2H	5.1	6.0	6.0	6.9	8.1	5.1	6.0	6.0	6.9	8.1
	3H	8.3	9.1	9.2	10.1	11.3	8.3	9.1	9.2	10.1	11.3
	4H	9.9	10.7	10.9	11.6	12.9	9.9	10.7	10.9	11.6	12.9
	6H	11.5	12.2	12.5	13.2	14.4	11.5	12.2	12.5	13.2	14.4
	8H	12.3	12.9	13.3	13.9	15.2	12.3	12.9	13.3	13.9	15.2
	12H	13.1	13.6	14.0	14.6	15.9	13.1	13.6	14.0	14.6	15.9
8H	4H	10.5	11.1	11.4	12.1	13.3	10.5	11.1	11.4	12.1	13.3
	6H	12.3	12.8	13.2	13.8	15.1	12.3	12.8	13.2	13.8	15.1
	8H	13.2	13.7	14.1	14.7	15.9	13.2	13.7	14.1	14.7	15.9
	12H	14.1	14.5	15.1	15.5	16.9	14.1	14.5	15.1	15.5	16.9
12H	4H	10.6	11.1	11.5	12.1	13.4	10.6	11.1	11.5	12.1	13.4
	6H	12.4	12.9	13.4	13.9	15.2	12.4	12.9	13.4	13.9	15.2
	8H	13.4	13.9	14.4	14.9	16.2	13.4	13.9	14.4	14.9	16.2

(END OF REPORT)