

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: P1245446

Luminaire Tested: PRLX-UNA-S-927-05L-U-NL

Issue Date: 1/30/2026

Test Information

Test Method: LM-79-2019
Report Number: P1245446
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2412-299-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/30/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-UNA-S-927-05L-U-NL
Description: 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, NATURAL LINES SHADE TEXTURE
LIGHT LEVEL 2
Light Source: -
Ballast/Driver: -

Summary

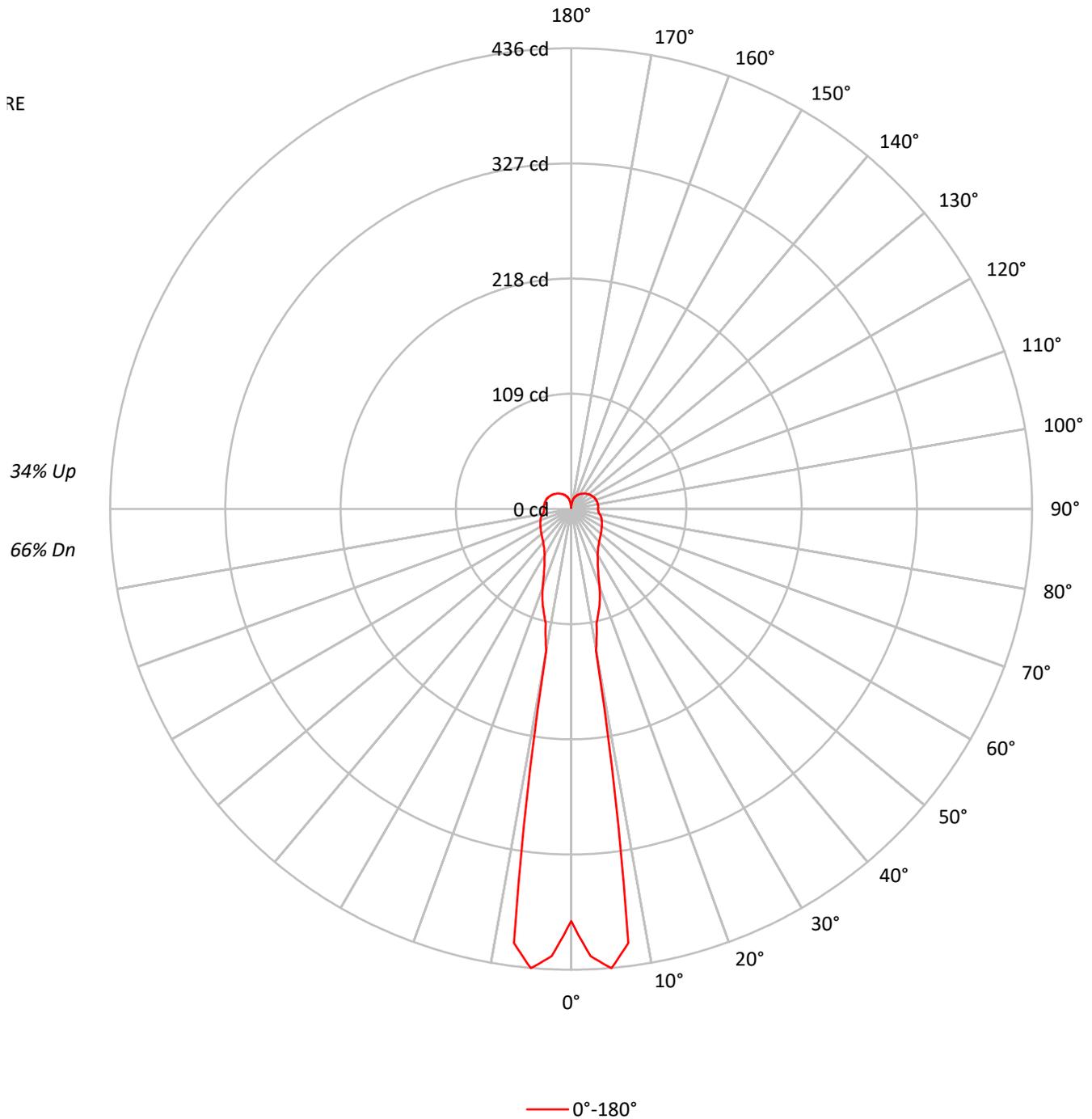
Lumens per Lamp: N/A
Luminaire Lumens: 408.0 lumens
Efficiency: N/A
Efficacy: 36.8 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.33 / 0.34
Luminous Opening: Rectangular w/ Sides (W: 0.47' x L: 0.47' x H: 1.12')
CIE Type: Semi-Direct

Input Watts (W): 11.1
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

TEST NUMBER: P1245446

CATALOG NUMBER: PRLX-UNA-S-927-05L-U-NL

Luminous Intensity Polar Plot





TEST NUMBER: P1245446

CATALOG NUMBER: PRLX-UNA-S-927-05L-U-NL

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	111	111	111	111	105	105	105	105	92	92	92	81	81	81	71	71	71	66
1	99	94	89	84	93	88	84	80	78	74	71	68	65	63	59	57	55	51
2	90	81	74	68	84	77	70	65	68	63	58	59	55	52	52	49	46	42
3	82	72	64	57	77	68	60	55	60	54	49	53	48	44	46	43	40	36
4	76	64	56	49	71	61	53	47	54	48	43	48	43	39	42	38	35	32
5	70	58	49	43	66	55	47	41	49	43	38	44	38	34	38	34	31	28
6	65	53	44	38	61	50	42	37	45	39	34	40	35	31	36	32	28	26
7	61	48	40	35	57	46	39	33	42	35	31	37	32	28	33	29	26	24
8	57	45	37	31	54	43	35	30	39	33	28	35	30	26	31	27	24	22
9	54	42	34	29	51	40	33	28	36	30	26	33	28	24	30	26	23	21
10	51	39	32	27	48	37	30	26	34	28	24	31	26	23	28	24	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	19105
5°	17728
10°	4750
15°	3099
20°	2179
25°	1523
30°	1186
35°	993
40°	870
45°	787
50°	723
55°	671
60°	636
65°	605
70°	579
75°	557
80°	525
85°	512

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 787 cd/sqm

TEST NUMBER: P1245446

CATALOG NUMBER: PRLX-UNA-S-927-05L-U-NL

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.3	8.4
10°-20°	28.2	6.9
20°-30°	28.0	6.9
30°-40°	28.2	6.9
40°-50°	29.9	7.3
50°-60°	31.3	7.7
60°-70°	31.8	7.8
70°-80°	31.0	7.6
80°-90°	28.4	6.9
90°-100°	28.0	6.9
100°-110°	26.9	6.6
110°-120°	24.3	6.0
120°-130°	20.4	5.0
130°-140°	15.8	3.9
140°-150°	11.1	2.7
150°-160°	6.8	1.7
160°-170°	3.1	0.8
170°-180°	0.5	0.1
0°-30°	90.6	22.2
0°-40°	118.7	29.1
0°-60°	180.0	44.1
0°-90°	271.1	66.5
90°-120°	79.2	19.4
90°-150°	126.4	31.0
90°-180°	137.0	33.6
0°-180°	408.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	390	
5°	436	34
15°	100	28
25°	60	28
35°	44	28
45°	39	30
55°	35	31
65°	32	32
75°	29	31
85°	26	21
90°	26	14
95°	26	21
105°	26	27
115°	24	24
125°	23	20
135°	20	16
145°	18	11
155°	14	7
165°	11	3
175°	4	1
180°	1	

TEST NUMBER: P1245446

CATALOG NUMBER: PRLX-UNA-S-927-05L-U-NL

CANDELA DISTRIBUTION (FULL):

0°	
0°	390.0
2.5°	423.5
5°	436.2
7.5°	414.2
10°	135.9
12.5°	111.0
15°	100.4
17.5°	90.3
20°	78.3
22.5°	67.2
25°	59.7
27.5°	54.5
30°	50.0
32.5°	47.2
35°	44.5
37.5°	42.8
40°	41.0
42.5°	39.7
45°	38.6
47.5°	37.6
50°	36.6
52.5°	35.9
55°	34.8
57.5°	34.1
60°	33.5
62.5°	32.8
65°	32.1
67.5°	31.4
70°	30.7
72.5°	30.3
75°	29.3
77.5°	28.6
80°	27.2
82.5°	26.2
85°	25.9
87.5°	25.5
90°	25.5
92.5°	25.5
95°	25.9
97.5°	25.9
100°	25.5
102.5°	25.5
105°	25.5
107.5°	25.2
110°	25.2

TEST NUMBER: P1245446

CATALOG NUMBER: PRLX-UNA-S-927-05L-U-NL

CANDELA DISTRIBUTION (continued):

	0°
112.5°	24.8
115°	24.5
117.5°	24.1
120°	23.8
122.5°	23.1
125°	22.8
127.5°	22.1
130°	21.7
132.5°	21.0
135°	20.3
137.5°	19.7
140°	19.0
142.5°	18.3
145°	17.6
147.5°	16.9
150°	16.2
152.5°	15.5
155°	14.5
157.5°	13.8
160°	12.8
162.5°	12.1
165°	11.0
167.5°	9.7
170°	7.9
172.5°	6.2
175°	4.1
177.5°	2.1
180°	1.0



TEST NUMBER: P1245446

CATALOG NUMBER: PRLX-UNA-S-927-05L-U-NL

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	6.6	7.7	7.4	8.5	9.6	6.6	7.7	7.4	8.5	9.6
	3H	9.1	10.1	9.9	10.9	11.9	9.1	10.1	9.9	10.9	11.9
	4H	10.3	11.2	11.1	12.0	13.1	10.3	11.2	11.1	12.0	13.1
	6H	11.4	12.2	12.2	13.1	14.2	11.4	12.2	12.2	13.1	14.2
	8H	11.9	12.7	12.7	13.6	14.6	11.9	12.7	12.7	13.6	14.6
	12H	12.4	13.2	13.2	14.0	15.1	12.4	13.2	13.2	14.0	15.1
4H	2H	7.3	8.2	8.1	9.0	10.1	7.3	8.2	8.1	9.0	10.1
	3H	9.9	10.7	10.8	11.6	12.7	9.9	10.7	10.8	11.6	12.7
	4H	11.3	12.0	12.1	12.9	14.0	11.3	12.0	12.1	12.9	14.0
	6H	12.5	13.2	13.4	14.1	15.2	12.5	13.2	13.4	14.1	15.2
	8H	13.1	13.7	14.0	14.6	15.7	13.1	13.7	14.0	14.6	15.7
	12H	13.7	14.3	14.6	15.2	16.3	13.7	14.3	14.6	15.2	16.3
8H	4H	11.7	12.3	12.5	13.2	14.3	11.7	12.3	12.5	13.2	14.3
	6H	13.1	13.7	14.0	14.6	15.7	13.1	13.7	14.0	14.6	15.7
	8H	13.9	14.4	14.8	15.3	16.4	13.9	14.4	14.8	15.3	16.4
	12H	14.6	15.1	15.5	16.0	17.2	14.6	15.1	15.5	16.0	17.2
12H	4H	11.7	12.3	12.6	13.2	14.3	11.7	12.3	12.6	13.2	14.3
	6H	13.3	13.8	14.2	14.7	15.8	13.3	13.8	14.2	14.7	15.8
	8H	14.1	14.5	15.0	15.4	16.6	14.1	14.5	15.0	15.4	16.6

(END OF REPORT)