

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: P1245112

Luminaire Tested: PRLX-NIM-L-940-16L-U-NL

Issue Date: 1/30/2026

Test Information

Test Method: LM-79-2019
Report Number: P1245112
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-940-16L-U-NL
Description: 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, NATURAL LINES SHADE TEXTUF
LIGHT LEVEL 5
Light Source: -
Ballast/Driver: -

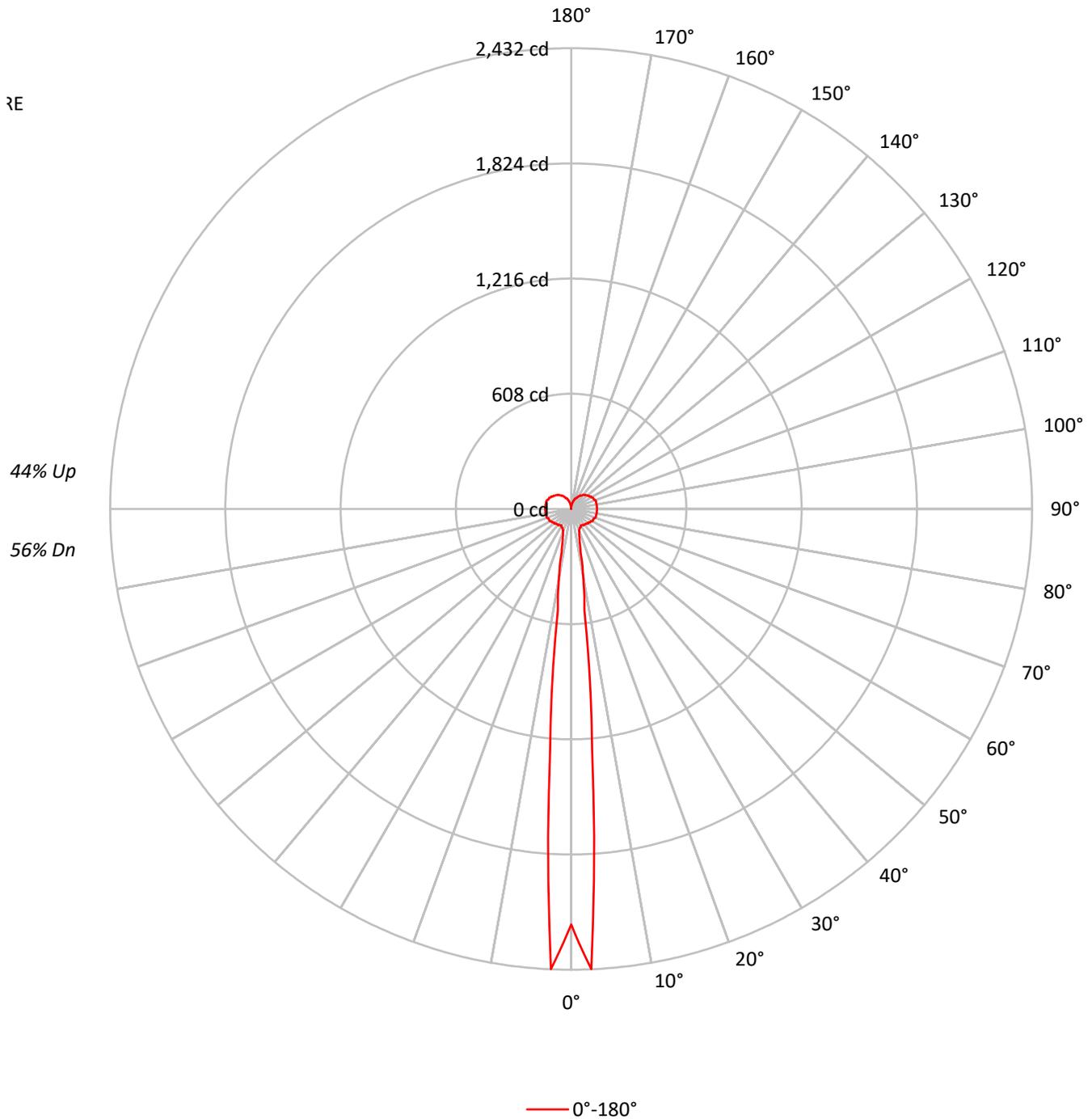
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1585.0 lumens
Efficiency: N/A
Efficacy: 40.8 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): 38.8
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: P1245112
CATALOG NUMBER: PRLX-NIM-L-940-16L-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	0
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°	69382
5°	31415
10°	7481
15°	2966
20°	1880
25°	1503
30°	1289
35°	1196
40°	1198
45°	1138
50°	1159
55°	1188
60°	1224
65°	1204
70°	1256
75°	1255
80°	1264
85°	1282

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 90°
 Luminance: 1311 cd/sqm



TEST NUMBER: P1245112

CATALOG NUMBER: PRLX-NIM-L-940-16L-U-NL

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.0	5.9
10°-20°	52.8	3.3
20°-30°	51.4	3.2
30°-40°	65.9	4.2
40°-50°	86.5	5.5
50°-60°	108.6	6.9
60°-70°	129.3	8.2
70°-80°	144.1	9.1
80°-90°	148.6	9.4
90°-100°	148.6	9.4
100°-110°	144.1	9.1
110°-120°	128.5	8.1
120°-130°	105.5	6.7
130°-140°	80.6	5.1
140°-150°	54.2	3.4
150°-160°	29.8	1.9
160°-170°	12.0	0.8
170°-180°	1.5	0.1
0°-30°	197.2	12.4
0°-40°	263.1	16.6
0°-60°	458.2	28.9
0°-90°	880.2	55.5
90°-120°	421.2	26.6
90°-150°	661.5	41.7
90°-180°	705.0	44.5
0°-180°	1585.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2193	
5°	1274	93
15°	170	53
25°	109	51
35°	102	66
45°	109	86
55°	123	109
65°	129	129
75°	136	144
85°	136	111
90°	136	75
95°	136	111
105°	136	144
115°	129	128
125°	116	106
135°	102	81
145°	88	54
155°	61	30
165°	41	12
175°	7	1
180°	0	

TEST NUMBER: P1245112

CATALOG NUMBER: PRLX-NIM-L-940-16L-U-NL

CANDELA DISTRIBUTION (FULL):

0°	
0°	2193.1
2.5°	2431.5
5°	1273.6
7.5°	538.1
10°	367.8
12.5°	231.6
15°	170.3
17.5°	143.0
20°	122.6
22.5°	115.8
25°	109.0
27.5°	109.0
30°	102.2
32.5°	102.2
35°	102.2
37.5°	109.0
40°	109.0
42.5°	109.0
45°	109.0
47.5°	115.8
50°	115.8
52.5°	115.8
55°	122.6
57.5°	122.6
60°	129.4
62.5°	129.4
65°	129.4
67.5°	129.4
70°	136.2
72.5°	136.2
75°	136.2
77.5°	136.2
80°	136.2
82.5°	136.2
85°	136.2
87.5°	136.2
90°	136.2
92.5°	136.2
95°	136.2
97.5°	136.2
100°	136.2
102.5°	136.2
105°	136.2
107.5°	136.2
110°	136.2

TEST NUMBER: P1245112

CATALOG NUMBER: PRLX-NIM-L-940-16L-U-NL

CANDELA DISTRIBUTION (continued):

	0°
112.5°	129.4
115°	129.4
117.5°	129.4
120°	122.6
122.5°	122.6
125°	115.8
127.5°	115.8
130°	109.0
132.5°	109.0
135°	102.2
137.5°	102.2
140°	95.4
142.5°	88.5
145°	88.5
147.5°	81.7
150°	74.9
152.5°	68.1
155°	61.3
157.5°	61.3
160°	54.5
162.5°	47.7
165°	40.9
167.5°	34.1
170°	27.2
172.5°	20.4
175°	6.8
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	8.1	9.1	8.9	10.0	11.2	8.1	9.1	8.9	10.0	11.2
	3H	11.1	12.1	12.0	13.0	14.2	11.1	12.1	12.0	13.0	14.2
	4H	12.6	13.5	13.5	14.4	15.7	12.6	13.5	13.5	14.4	15.7
	6H	14.0	14.9	15.0	15.8	17.1	14.0	14.9	15.0	15.8	17.1
	8H	14.7	15.5	15.6	16.5	17.7	14.7	15.5	15.6	16.5	17.7
	12H	15.4	16.2	16.3	17.1	18.4	15.4	16.2	16.3	17.1	18.4
4H	2H	8.8	9.7	9.8	10.7	11.9	8.8	9.7	9.8	10.7	11.9
	3H	12.1	12.9	13.0	13.9	15.1	12.1	12.9	13.0	13.9	15.1
	4H	13.7	14.5	14.7	15.4	16.7	13.7	14.5	14.7	15.4	16.7
	6H	15.3	16.0	16.3	17.0	18.2	15.3	16.0	16.3	17.0	18.2
	8H	16.1	16.7	17.0	17.7	19.0	16.1	16.7	17.0	17.7	19.0
	12H	16.9	17.4	17.8	18.4	19.7	16.9	17.4	17.8	18.4	19.7
8H	4H	14.3	14.9	15.2	15.8	17.1	14.3	14.9	15.2	15.8	17.1
	6H	16.0	16.6	17.0	17.6	18.9	16.0	16.6	17.0	17.6	18.9
	8H	17.0	17.4	17.9	18.4	19.7	17.0	17.4	17.9	18.4	19.7
	12H	17.9	18.3	18.9	19.3	20.6	17.9	18.3	18.9	19.3	20.6
12H	4H	14.4	14.9	15.3	15.9	17.2	14.4	14.9	15.3	15.9	17.2
	6H	16.2	16.7	17.2	17.7	19.0	16.2	16.7	17.2	17.7	19.0
	8H	17.2	17.7	18.2	18.7	20.0	17.2	17.7	18.2	18.7	20.0

(END OF REPORT)