

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: P1245115

Luminaire Tested: PRLX-NIM-L-940-20L-U-LF

Issue Date: 1/30/2026

Test Information

Test Method: LM-79-2019
Report Number: P1245115
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-940-20L-U-LF
Description: 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, LAYERED FINE SHADE TEXTURE LIGHT LEVEL 6
Light Source: -
Ballast/Driver: -

Summary

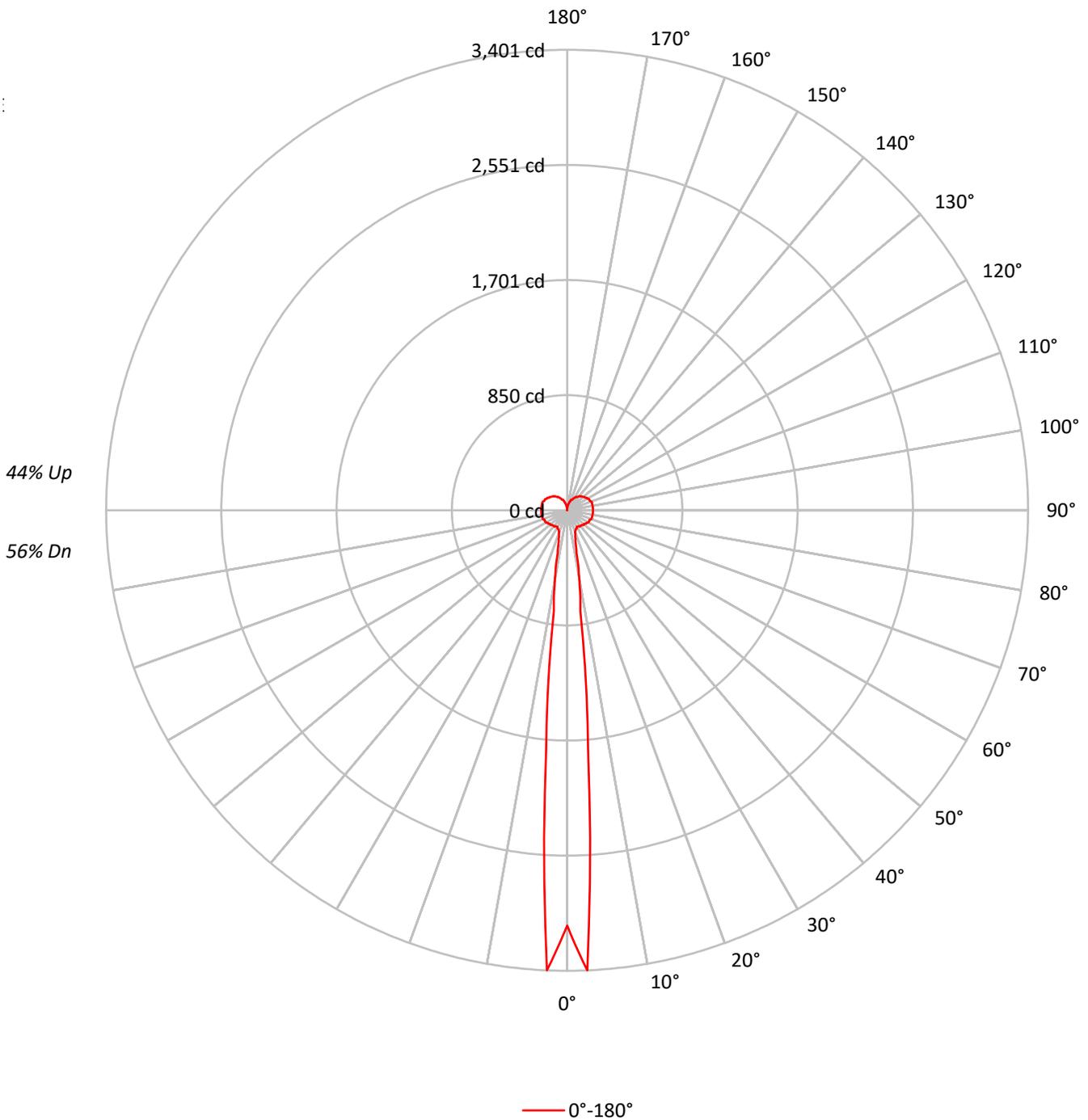
Lumens per Lamp: N/A
Luminaire Lumens: 2216.9 lumens
Efficiency: N/A
Efficacy: 45.6 lumens/watt
Spacing Criteria (0/90/45): 0.19 / 0.19 / 0.18
Luminous Opening: Rectangular w/ Sides (W: 0.58' x L: 0.58' x H: 1.92')
CIE Type: General Diffuse

Input Watts (W): 48.6
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: P1245115

CATALOG NUMBER: PRLX-NIM-L-940-20L-U-LF

Luminous Intensity Polar Plot





TEST NUMBER: P1245115

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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°	97048
5°	43943
10°	10463
15°	4149
20°	2629
25°	2101
30°	1802
35°	1672
40°	1675
45°	1591
50°	1622
55°	1662
60°	1711
65°	1684
70°	1757
75°	1756
80°	1768
85°	1793

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 90°
 Luminance: 1834 cd/sqm

TEST NUMBER: P1245115

CATALOG NUMBER: PRLX-NIM-L-940-20L-U-LF

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.0	5.9
10°-20°	73.9	3.3
20°-30°	71.9	3.2
30°-40°	92.2	4.2
40°-50°	121.0	5.5
50°-60°	151.9	6.9
60°-70°	180.9	8.2
70°-80°	201.5	9.1
80°-90°	207.8	9.4
90°-100°	207.8	9.4
100°-110°	201.5	9.1
110°-120°	179.7	8.1
120°-130°	147.6	6.7
130°-140°	112.7	5.1
140°-150°	75.8	3.4
150°-160°	41.7	1.9
160°-170°	16.8	0.8
170°-180°	2.0	0.1
0°-30°	275.8	12.4
0°-40°	368.0	16.6
0°-60°	640.8	28.9
0°-90°	1231.1	55.5
90°-120°	589.1	26.6
90°-150°	925.3	41.7
90°-180°	986.0	44.5
0°-180°	2216.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3068	
5°	1782	130
15°	238	74
25°	152	72
35°	143	92
45°	152	121
55°	172	152
65°	181	181
75°	190	202
85°	190	156
90°	190	104
95°	190	156
105°	190	202
115°	181	180
125°	162	148
135°	143	113
145°	124	76
155°	86	42
165°	57	17
175°	10	2
180°	0	

TEST NUMBER: P1245115

CATALOG NUMBER: PRLX-NIM-L-940-20L-U-LF

CANDELA DISTRIBUTION (FULL):

0°	
0°	3067.6
2.5°	3401.0
5°	1781.5
7.5°	752.6
10°	514.4
12.5°	323.9
15°	238.2
17.5°	200.1
20°	171.5
22.5°	162.0
25°	152.4
27.5°	152.4
30°	142.9
32.5°	142.9
35°	142.9
37.5°	152.4
40°	152.4
42.5°	152.4
45°	152.4
47.5°	162.0
50°	162.0
52.5°	162.0
55°	171.5
57.5°	171.5
60°	181.0
62.5°	181.0
65°	181.0
67.5°	181.0
70°	190.5
72.5°	190.5
75°	190.5
77.5°	190.5
80°	190.5
82.5°	190.5
85°	190.5
87.5°	190.5
90°	190.5
92.5°	190.5
95°	190.5
97.5°	190.5
100°	190.5
102.5°	190.5
105°	190.5
107.5°	190.5
110°	190.5

TEST NUMBER: P1245115

CATALOG NUMBER: PRLX-NIM-L-940-20L-U-LF

CANDELA DISTRIBUTION (continued):

	0°
112.5°	181.0
115°	181.0
117.5°	181.0
120°	171.5
122.5°	171.5
125°	162.0
127.5°	162.0
130°	152.4
132.5°	152.4
135°	142.9
137.5°	142.9
140°	133.4
142.5°	123.8
145°	123.8
147.5°	114.3
150°	104.8
152.5°	95.3
155°	85.7
157.5°	85.7
160°	76.2
162.5°	66.7
165°	57.2
167.5°	47.6
170°	38.1
172.5°	28.6
175°	9.5
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	9.2	10.2	10.1	11.2	12.3	9.2	10.2	10.1	11.2	12.3
	3H	12.3	13.2	13.2	14.2	15.4	12.3	13.2	13.2	14.2	15.4
	4H	13.8	14.7	14.7	15.6	16.8	13.8	14.7	14.7	15.6	16.8
	6H	15.2	16.1	16.1	17.0	18.2	15.2	16.1	16.1	17.0	18.2
	8H	15.9	16.7	16.8	17.7	18.9	15.9	16.7	16.8	17.7	18.9
	12H	16.6	17.3	17.5	18.3	19.5	16.6	17.3	17.5	18.3	19.5
4H	2H	10.0	10.9	10.9	11.9	13.1	10.0	10.9	10.9	11.9	13.1
	3H	13.3	14.1	14.2	15.0	16.2	13.3	14.1	14.2	15.0	16.2
	4H	14.9	15.6	15.8	16.6	17.8	14.9	15.6	15.8	16.6	17.8
	6H	16.5	17.1	17.4	18.1	19.4	16.5	17.1	17.4	18.1	19.4
	8H	17.3	17.9	18.2	18.9	20.1	17.3	17.9	18.2	18.9	20.1
	12H	18.0	18.6	19.0	19.6	20.9	18.0	18.6	19.0	19.6	20.9
8H	4H	15.4	16.0	16.4	17.0	18.3	15.4	16.0	16.4	17.0	18.3
	6H	17.2	17.7	18.2	18.8	20.0	17.2	17.7	18.2	18.8	20.0
	8H	18.1	18.6	19.1	19.6	20.9	18.1	18.6	19.1	19.6	20.9
	12H	19.1	19.5	20.0	20.5	21.8	19.1	19.5	20.0	20.5	21.8
12H	4H	15.5	16.1	16.5	17.1	18.4	15.5	16.1	16.5	17.1	18.4
	6H	17.4	17.9	18.4	18.9	20.2	17.4	17.9	18.4	18.9	20.2
	8H	18.4	18.8	19.4	19.8	21.1	18.4	18.8	19.4	19.8	21.1

(END OF REPORT)