

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: P1245111

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

Issue Date: 1/30/2026

Test Information

Test Method: LM-79-2019
Report Number: P1245111
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-LF
Description: 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, LAYERED FINE SHADE TEXTURE LIGHT LEVEL 5
Light Source: -
Ballast/Driver: -

Summary

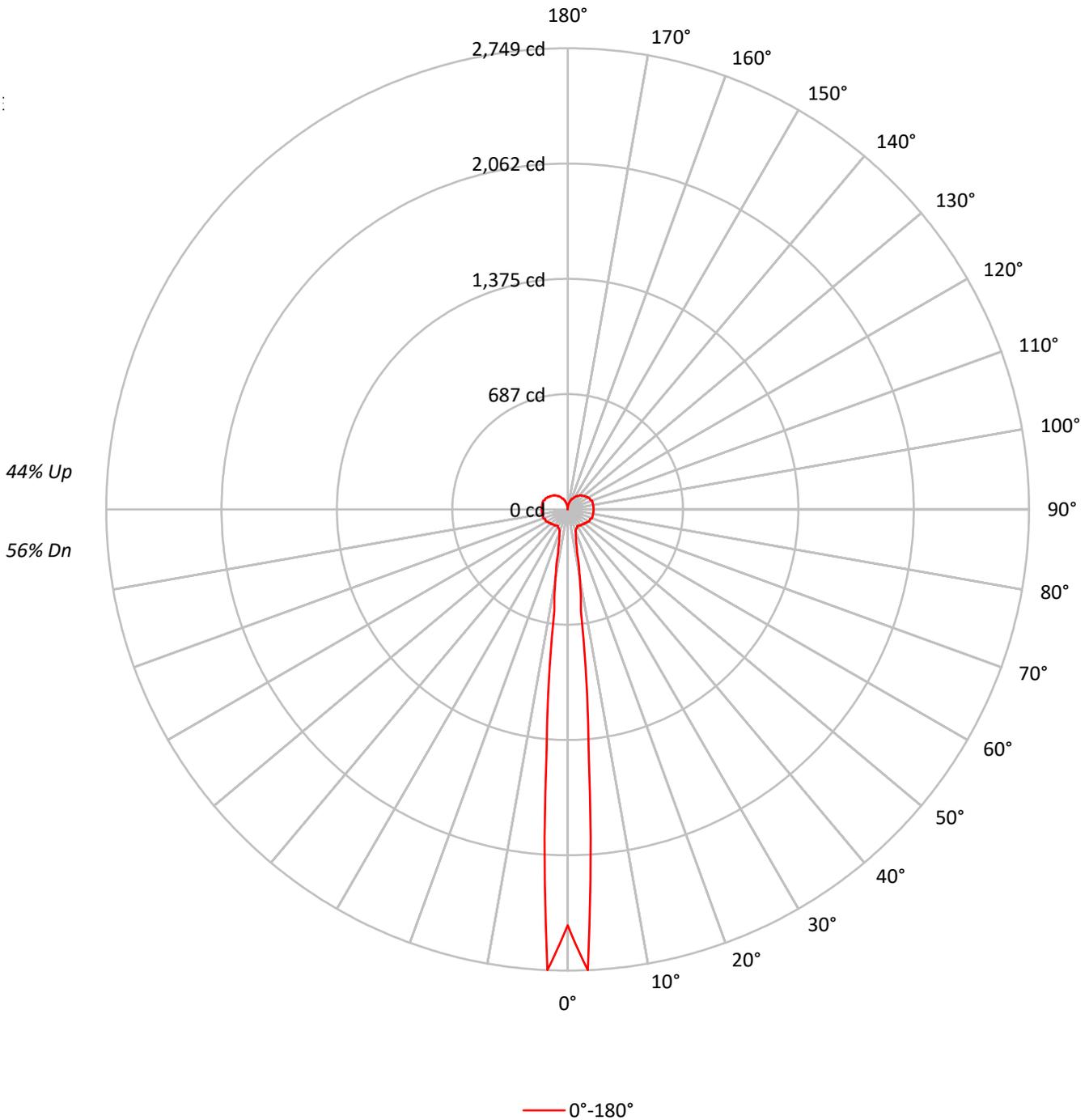
Lumens per Lamp: N/A
Luminaire Lumens: 1791.9 lumens
Efficiency: N/A
Efficacy: 46.2 lumens/watt
Spacing Criteria (0/90/45): 0.19 / 0.19 / 0.18
Luminous Opening: Rectangular w/ Sides (W: 0.58' x L: 0.58' x H: 1.92')
CIE Type: General Diffuse

Input Watts (W): 38.8
Input Voltage (V): NR
Input Current (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

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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	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°	78442
5°	35519
10°	8457
15°	3353
20°	2125
25°	1698
30°	1456
35°	1351
40°	1354
45°	1286
50°	1311
55°	1343
60°	1383
65°	1361
70°	1420
75°	1419
80°	1429
85°	1450

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 90°
 Luminance: 1483 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.1	5.9
10°-20°	59.7	3.3
20°-30°	58.1	3.2
30°-40°	74.5	4.2
40°-50°	97.8	5.5
50°-60°	122.8	6.9
60°-70°	146.2	8.2
70°-80°	162.9	9.1
80°-90°	168.0	9.4
90°-100°	168.0	9.4
100°-110°	162.9	9.1
110°-120°	145.3	8.1
120°-130°	119.3	6.7
130°-140°	91.1	5.1
140°-150°	61.3	3.4
150°-160°	33.7	1.9
160°-170°	13.5	0.8
170°-180°	1.7	0.1
0°-30°	222.9	12.4
0°-40°	297.4	16.6
0°-60°	517.9	28.9
0°-90°	995.1	55.5
90°-120°	476.2	26.6
90°-150°	747.9	41.7
90°-180°	797.0	44.5
0°-180°	1791.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2480	
5°	1440	105
15°	192	60
25°	123	58
35°	116	75
45°	123	98
55°	139	123
65°	146	146
75°	154	163
85°	154	126
90°	154	84
95°	154	126
105°	154	163
115°	146	145
125°	131	119
135°	116	91
145°	100	61
155°	69	34
165°	46	14
175°	8	2
180°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	2479.5
2.5°	2749.1
5°	1440.0
7.5°	608.3
10°	415.8
12.5°	261.8
15°	192.5
17.5°	161.7
20°	138.6
22.5°	130.9
25°	123.2
27.5°	123.2
30°	115.5
32.5°	115.5
35°	115.5
37.5°	123.2
40°	123.2
42.5°	123.2
45°	123.2
47.5°	130.9
50°	130.9
52.5°	130.9
55°	138.6
57.5°	138.6
60°	146.3
62.5°	146.3
65°	146.3
67.5°	146.3
70°	154.0
72.5°	154.0
75°	154.0
77.5°	154.0
80°	154.0
82.5°	154.0
85°	154.0
87.5°	154.0
90°	154.0
92.5°	154.0
95°	154.0
97.5°	154.0
100°	154.0
102.5°	154.0
105°	154.0
107.5°	154.0
110°	154.0

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	146.3
115°	146.3
117.5°	146.3
120°	138.6
122.5°	138.6
125°	130.9
127.5°	130.9
130°	123.2
132.5°	123.2
135°	115.5
137.5°	115.5
140°	107.8
142.5°	100.1
145°	100.1
147.5°	92.4
150°	84.7
152.5°	77.0
155°	69.3
157.5°	69.3
160°	61.6
162.5°	53.9
165°	46.2
167.5°	38.5
170°	30.8
172.5°	23.1
175°	7.7
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	8.5	9.5	9.4	10.4	11.6	8.5	9.5	9.4	10.4	11.6
	3H	11.5	12.5	12.4	13.4	14.6	11.5	12.5	12.4	13.4	14.6
	4H	13.0	13.9	13.9	14.9	16.1	13.0	13.9	13.9	14.9	16.1
	6H	14.5	15.3	15.4	16.3	17.5	14.5	15.3	15.4	16.3	17.5
	8H	15.1	16.0	16.1	16.9	18.1	15.1	16.0	16.1	16.9	18.1
	12H	15.8	16.6	16.7	17.5	18.8	15.8	16.6	16.7	17.5	18.8
4H	2H	9.3	10.2	10.2	11.1	12.3	9.3	10.2	10.2	11.1	12.3
	3H	12.5	13.3	13.5	14.3	15.5	12.5	13.3	13.5	14.3	15.5
	4H	14.2	14.9	15.1	15.8	17.1	14.2	14.9	15.1	15.8	17.1
	6H	15.7	16.4	16.7	17.4	18.6	15.7	16.4	16.7	17.4	18.6
	8H	16.5	17.1	17.5	18.1	19.4	16.5	17.1	17.5	18.1	19.4
	12H	17.3	17.9	18.2	18.8	20.1	17.3	17.9	18.2	18.8	20.1
8H	4H	14.7	15.3	15.6	16.3	17.5	14.7	15.3	15.6	16.3	17.5
	6H	16.5	17.0	17.4	18.0	19.3	16.5	17.0	17.4	18.0	19.3
	8H	17.4	17.9	18.4	18.9	20.1	17.4	17.9	18.4	18.9	20.1
	12H	18.3	18.8	19.3	19.8	21.1	18.3	18.8	19.3	19.8	21.1
12H	4H	14.8	15.4	15.8	16.3	17.6	14.8	15.4	15.8	16.3	17.6
	6H	16.7	17.1	17.6	18.1	19.4	16.7	17.1	17.6	18.1	19.4
	8H	17.7	18.1	18.6	19.1	20.4	17.7	18.1	18.6	19.1	20.4

(END OF REPORT)