

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: P1245123

Luminaire Tested: PRLX-NIM-L-940-27L-U-LF

Issue Date: 1/30/2026

Test Information

Test Method: LM-79-2019
Report Number: P1245123
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-940-27L-U-LF
Description: 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, LAYERED FINE SHADE TEXTURE LIGHT LEVEL 8
Light Source: -
Ballast/Driver: -

Summary

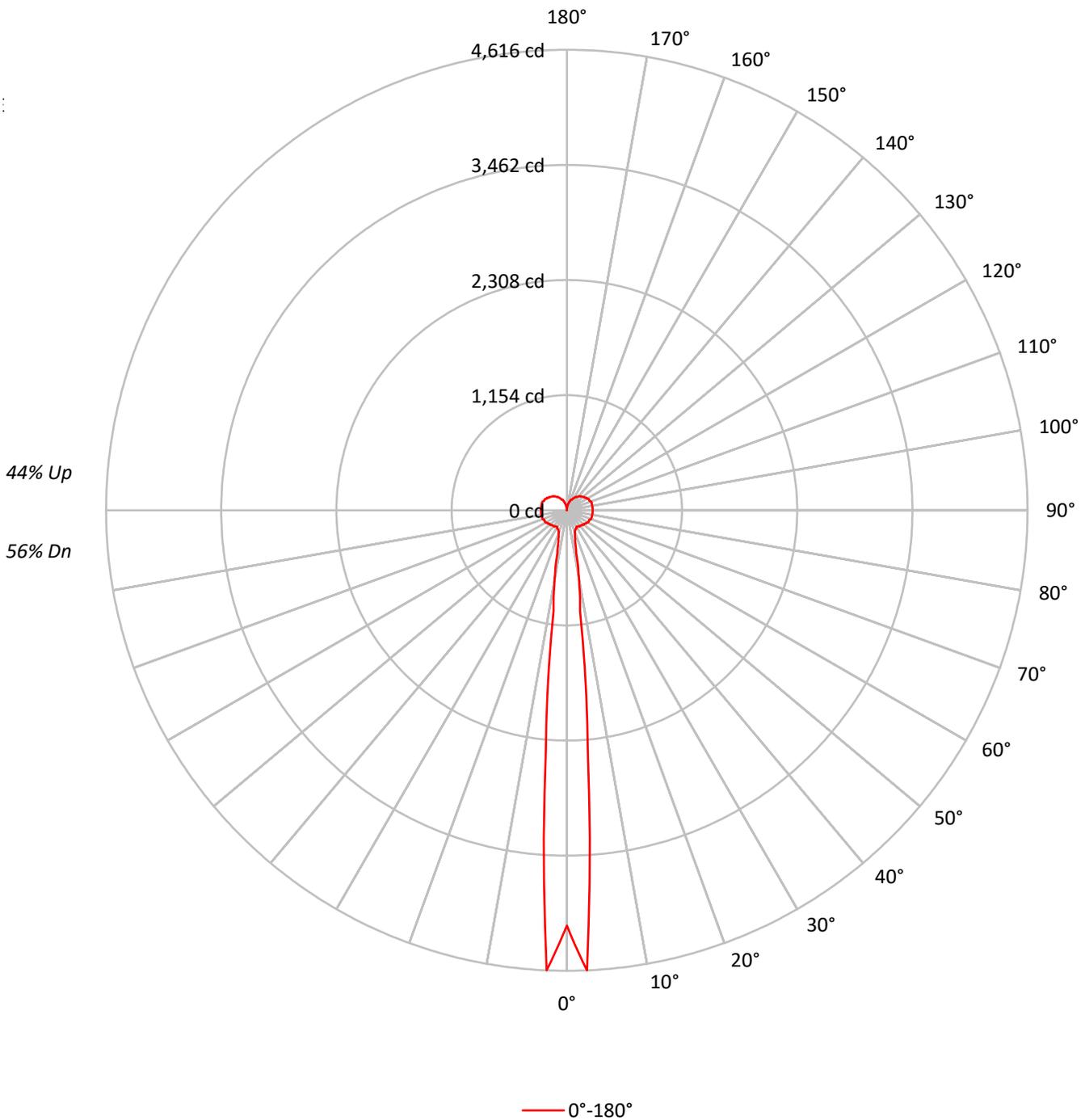
Lumens per Lamp: N/A
Luminaire Lumens: 3009.1 lumens
Efficiency: N/A
Efficacy: 43.4 lumens/watt
Spacing Criteria (0/90/45): 0.19 / 0.19 / 0.18
Luminous Opening: Rectangular w/ Sides (W: 0.58' x L: 0.58' x H: 1.92')
CIE Type: General Diffuse

Input Watts (W): 69.4
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

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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°	131718
5°	59640
10°	14201
15°	5631
20°	3568
25°	2852
30°	2446
35°	2270
40°	2274
45°	2160
50°	2201
55°	2255
60°	2323
65°	2286
70°	2385
75°	2383
80°	2399
85°	2434

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 90°
 Luminance: 2490 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.5	5.9
10°-20°	100.3	3.3
20°-30°	97.6	3.2
30°-40°	125.1	4.2
40°-50°	164.2	5.5
50°-60°	206.1	6.8
60°-70°	245.5	8.2
70°-80°	273.6	9.1
80°-90°	282.1	9.4
90°-100°	282.1	9.4
100°-110°	273.6	9.1
110°-120°	244.0	8.1
120°-130°	200.3	6.7
130°-140°	153.0	5.1
140°-150°	103.0	3.4
150°-160°	56.6	1.9
160°-170°	22.7	0.8
170°-180°	2.8	0.1
0°-30°	374.3	12.4
0°-40°	499.5	16.6
0°-60°	869.8	28.9
0°-90°	1671.0	55.5
90°-120°	799.7	26.6
90°-150°	1256.0	41.7
90°-180°	1338.0	44.5
0°-180°	3009.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4164	
5°	2418	176
15°	323	100
25°	207	98
35°	194	125
45°	207	164
55°	233	206
65°	246	246
75°	259	274
85°	259	211
90°	259	142
95°	259	211
105°	259	274
115°	246	244
125°	220	200
135°	194	153
145°	168	103
155°	116	57
165°	78	23
175°	13	3
180°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	4163.5
2.5°	4616.0
5°	2417.9
7.5°	1021.5
10°	698.2
12.5°	439.6
15°	323.3
17.5°	271.5
20°	232.7
22.5°	219.8
25°	206.9
27.5°	206.9
30°	194.0
32.5°	194.0
35°	194.0
37.5°	206.9
40°	206.9
42.5°	206.9
45°	206.9
47.5°	219.8
50°	219.8
52.5°	219.8
55°	232.7
57.5°	232.7
60°	245.7
62.5°	245.7
65°	245.7
67.5°	245.7
70°	258.6
72.5°	258.6
75°	258.6
77.5°	258.6
80°	258.6
82.5°	258.6
85°	258.6
87.5°	258.6
90°	258.6
92.5°	258.6
95°	258.6
97.5°	258.6
100°	258.6
102.5°	258.6
105°	258.6
107.5°	258.6
110°	258.6

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	245.7
115°	245.7
117.5°	245.7
120°	232.7
122.5°	232.7
125°	219.8
127.5°	219.8
130°	206.9
132.5°	206.9
135°	194.0
137.5°	194.0
140°	181.0
142.5°	168.1
145°	168.1
147.5°	155.2
150°	142.2
152.5°	129.3
155°	116.4
157.5°	116.4
160°	103.4
162.5°	90.5
165°	77.6
167.5°	64.7
170°	51.7
172.5°	38.8
175°	12.9
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	10.3	11.3	11.2	12.2	13.4	10.3	11.3	11.2	12.2	13.4
	3H	13.3	14.3	14.2	15.2	16.4	13.3	14.3	14.2	15.2	16.4
	4H	14.8	15.7	15.7	16.7	17.9	14.8	15.7	15.7	16.7	17.9
	6H	16.3	17.1	17.2	18.1	19.3	16.3	17.1	17.2	18.1	19.3
	8H	16.9	17.8	17.9	18.7	19.9	16.9	17.8	17.9	18.7	19.9
	12H	17.6	18.4	18.5	19.3	20.6	17.6	18.4	18.5	19.3	20.6
4H	2H	11.1	12.0	12.0	12.9	14.1	11.1	12.0	12.0	12.9	14.1
	3H	14.3	15.1	15.3	16.1	17.3	14.3	15.1	15.3	16.1	17.3
	4H	16.0	16.7	16.9	17.7	18.9	16.0	16.7	16.9	17.7	18.9
	6H	17.6	18.2	18.5	19.2	20.4	17.6	18.2	18.5	19.2	20.4
	8H	18.3	18.9	19.3	19.9	21.2	18.3	18.9	19.3	19.9	21.2
	12H	19.1	19.7	20.0	20.6	21.9	19.1	19.7	20.0	20.6	21.9
8H	4H	16.5	17.1	17.4	18.1	19.3	16.5	17.1	17.4	18.1	19.3
	6H	18.3	18.8	19.2	19.8	21.1	18.3	18.8	19.2	19.8	21.1
	8H	19.2	19.7	20.2	20.7	21.9	19.2	19.7	20.2	20.7	21.9
	12H	20.1	20.6	21.1	21.6	22.9	20.1	20.6	21.1	21.6	22.9
12H	4H	16.6	17.2	17.6	18.1	19.4	16.6	17.2	17.6	18.1	19.4
	6H	18.5	18.9	19.4	19.9	21.2	18.5	18.9	19.4	19.9	21.2
	8H	19.5	19.9	20.4	20.9	22.2	19.5	19.9	20.4	20.9	22.2

(END OF REPORT)