

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: P1245020

Luminaire Tested: PRLX-NIM-L-927-20L-U-NL

Issue Date: 1/30/2026

Test Information

Test Method: LM-79-2019
Report Number: P1245020
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-927-20L-U-NL
Description: 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, NATURAL LINES SHADE TEXTUF
LIGHT LEVEL 6
Light Source: -
Ballast/Driver: -

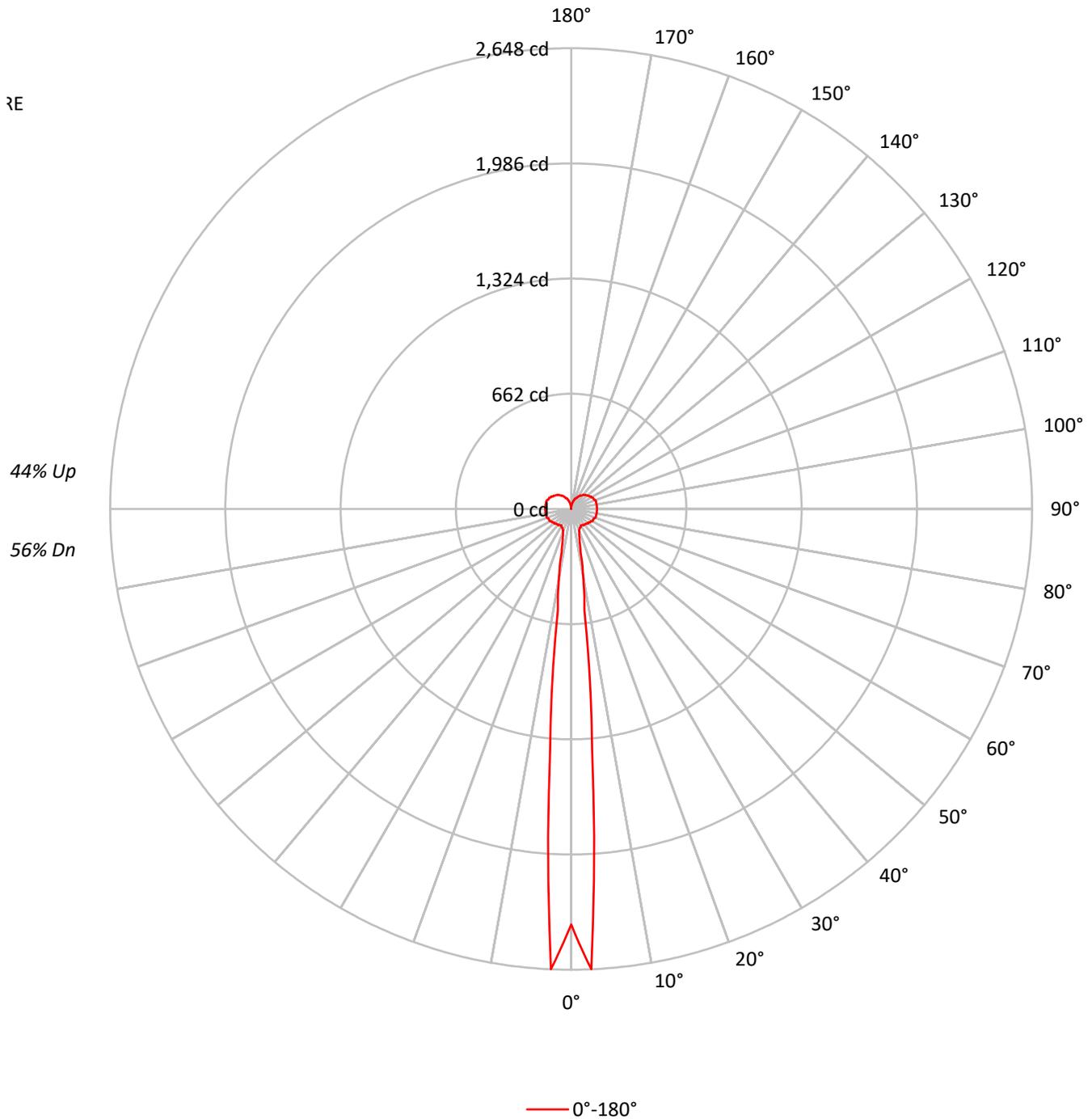
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1725.9 lumens
Efficiency: N/A
Efficacy: 35.5 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

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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°	75554
5°	34209
10°	8146
15°	3229
20°	2047
25°	1636
30°	1403
35°	1302
40°	1305
45°	1239
50°	1262
55°	1293
60°	1332
65°	1311
70°	1368
75°	1367
80°	1376
85°	1396

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 90°
 Luminance: 1428 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.2	5.9
10°-20°	57.5	3.3
20°-30°	56.0	3.2
30°-40°	71.8	4.2
40°-50°	94.2	5.5
50°-60°	118.2	6.9
60°-70°	140.8	8.2
70°-80°	156.9	9.1
80°-90°	161.8	9.4
90°-100°	161.8	9.4
100°-110°	156.9	9.1
110°-120°	139.9	8.1
120°-130°	114.9	6.7
130°-140°	87.8	5.1
140°-150°	59.1	3.4
150°-160°	32.5	1.9
160°-170°	13.0	0.8
170°-180°	1.6	0.1
0°-30°	214.7	12.4
0°-40°	286.5	16.6
0°-60°	499.0	28.9
0°-90°	958.5	55.5
90°-120°	458.6	26.6
90°-150°	720.4	41.7
90°-180°	767.0	44.4
0°-180°	1725.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2388	
5°	1387	101
15°	185	58
25°	119	56
35°	111	72
45°	119	94
55°	134	118
65°	141	141
75°	148	157
85°	148	121
90°	148	81
95°	148	121
105°	148	157
115°	141	140
125°	126	115
135°	111	88
145°	96	59
155°	67	32
165°	44	13
175°	7	2
180°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	2388.2
2.5°	2647.8
5°	1386.9
7.5°	585.9
10°	400.5
12.5°	252.2
15°	185.4
17.5°	155.8
20°	133.5
22.5°	126.1
25°	118.7
27.5°	118.7
30°	111.3
32.5°	111.3
35°	111.3
37.5°	118.7
40°	118.7
42.5°	118.7
45°	118.7
47.5°	126.1
50°	126.1
52.5°	126.1
55°	133.5
57.5°	133.5
60°	140.9
62.5°	140.9
65°	140.9
67.5°	140.9
70°	148.3
72.5°	148.3
75°	148.3
77.5°	148.3
80°	148.3
82.5°	148.3
85°	148.3
87.5°	148.3
90°	148.3
92.5°	148.3
95°	148.3
97.5°	148.3
100°	148.3
102.5°	148.3
105°	148.3
107.5°	148.3
110°	148.3

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	140.9
115°	140.9
117.5°	140.9
120°	133.5
122.5°	133.5
125°	126.1
127.5°	126.1
130°	118.7
132.5°	118.7
135°	111.3
137.5°	111.3
140°	103.8
142.5°	96.4
145°	96.4
147.5°	89.0
150°	81.6
152.5°	74.2
155°	66.8
157.5°	66.8
160°	59.3
162.5°	51.9
165°	44.5
167.5°	37.1
170°	29.7
172.5°	22.3
175°	7.4
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	8.3	9.4	9.2	10.3	11.5	8.3	9.4	9.2	10.3	11.5
	3H	11.4	12.4	12.3	13.3	14.5	11.4	12.4	12.3	13.3	14.5
	4H	12.9	13.8	13.8	14.7	16.0	12.9	13.8	13.8	14.7	16.0
	6H	14.3	15.2	15.3	16.1	17.4	14.3	15.2	15.3	16.1	17.4
	8H	15.0	15.8	15.9	16.8	18.0	15.0	15.8	15.9	16.8	18.0
	12H	15.7	16.5	16.6	17.4	18.7	15.7	16.5	16.6	17.4	18.7
4H	2H	9.1	10.0	10.0	11.0	12.2	9.1	10.0	10.0	11.0	12.2
	3H	12.4	13.2	13.3	14.2	15.4	12.4	13.2	13.3	14.2	15.4
	4H	14.0	14.8	15.0	15.7	17.0	14.0	14.8	15.0	15.7	17.0
	6H	15.6	16.3	16.6	17.3	18.5	15.6	16.3	16.6	17.3	18.5
	8H	16.4	17.0	17.3	18.0	19.2	16.4	17.0	17.3	18.0	19.2
	12H	17.2	17.7	18.1	18.7	20.0	17.2	17.7	18.1	18.7	20.0
8H	4H	14.5	15.2	15.5	16.1	17.4	14.5	15.2	15.5	16.1	17.4
	6H	16.3	16.9	17.3	17.9	19.1	16.3	16.9	17.3	17.9	19.1
	8H	17.3	17.7	18.2	18.7	20.0	17.3	17.7	18.2	18.7	20.0
	12H	18.2	18.6	19.2	19.6	20.9	18.2	18.6	19.2	19.6	20.9
12H	4H	14.7	15.2	15.6	16.2	17.5	14.7	15.2	15.6	16.2	17.5
	6H	16.5	17.0	17.5	18.0	19.3	16.5	17.0	17.5	18.0	19.3
	8H	17.5	18.0	18.5	19.0	20.3	17.5	18.0	18.5	19.0	20.3

(END OF REPORT)