

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: P1245021

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

Issue Date: 1/30/2026

Test Information

Test Method: LM-79-2019
Report Number: P1245021
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-NR
Description: 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, NATURAL RIBS SHADE TEXTURE
LIGHT LEVEL 6
Light Source: -
Ballast/Driver: -

Summary

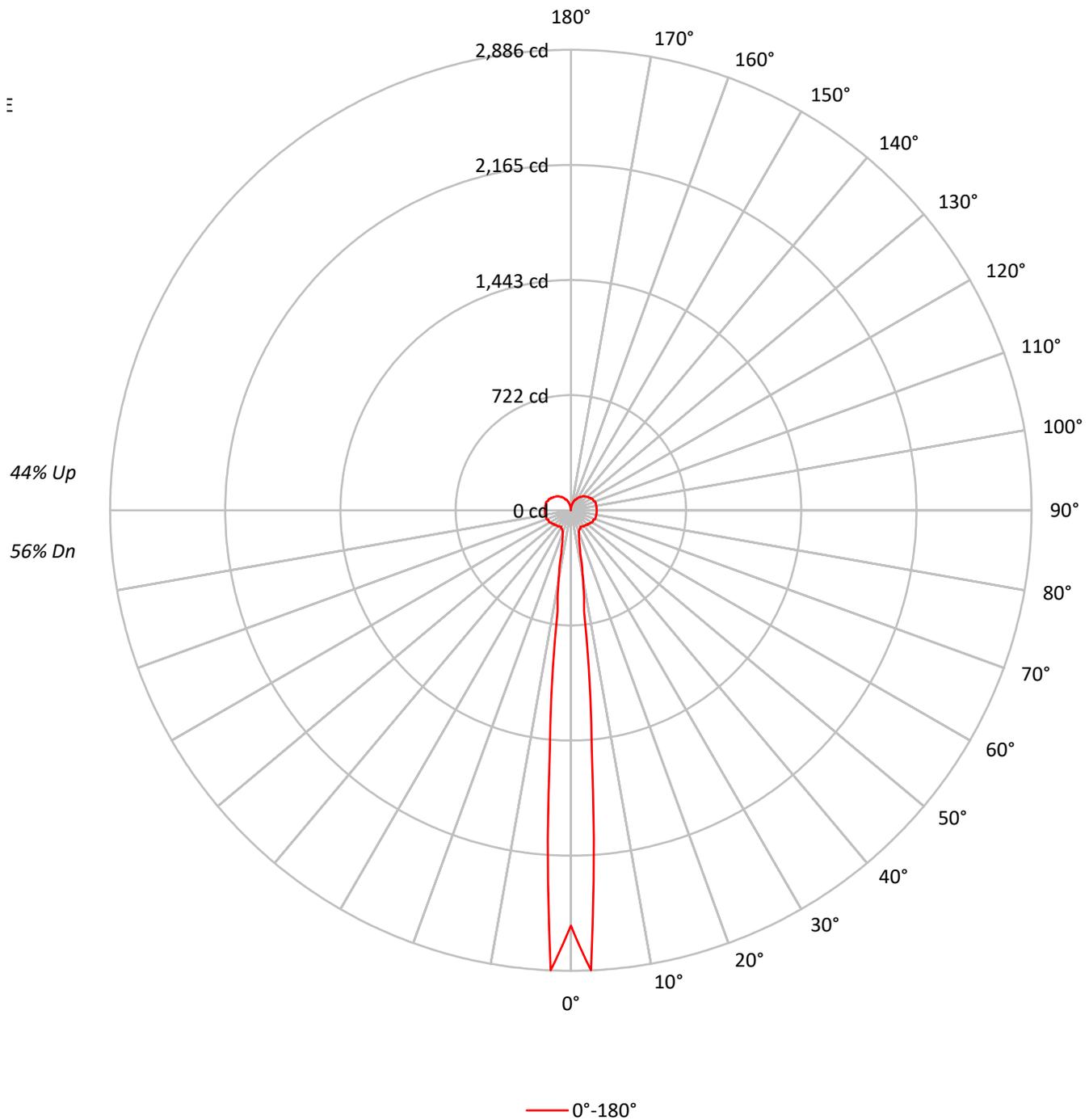
Lumens per Lamp: N/A
Luminaire Lumens: 1881.2 lumens
Efficiency: N/A
Efficacy: 38.7 lumens/watt
Spacing Criteria (0/90/45): 0.19 / 0.19 / 0.18
Luminous Opening: Rectangular w/ Sides (W: 0.58' x L: 0.58' x H: 1.92')
CIE Type: General Diffuse

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°	82340
5°	37283
10°	8878
15°	3520
20°	2231
25°	1782
30°	1528
35°	1418
40°	1421
45°	1350
50°	1376
55°	1410
60°	1452
65°	1429
70°	1492
75°	1490
80°	1500
85°	1522

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 90°
 Luminance: 1557 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.3	5.9
10°-20°	62.7	3.3
20°-30°	61.0	3.2
30°-40°	78.2	4.2
40°-50°	102.6	5.5
50°-60°	128.9	6.8
60°-70°	153.5	8.2
70°-80°	171.1	9.1
80°-90°	176.4	9.4
90°-100°	176.4	9.4
100°-110°	171.1	9.1
110°-120°	152.5	8.1
120°-130°	125.2	6.7
130°-140°	95.6	5.1
140°-150°	64.4	3.4
150°-160°	35.3	1.9
160°-170°	14.2	0.8
170°-180°	1.7	0.1
0°-30°	234.0	12.4
0°-40°	312.2	16.6
0°-60°	543.7	28.9
0°-90°	1044.6	55.5
90°-120°	500.0	26.6
90°-150°	785.2	41.7
90°-180°	837.0	44.5
0°-180°	1881.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2603	
5°	1512	110
15°	202	63
25°	129	61
35°	121	78
45°	129	103
55°	146	129
65°	154	154
75°	162	171
85°	162	132
90°	162	89
95°	162	132
105°	162	171
115°	154	153
125°	137	125
135°	121	96
145°	105	64
155°	73	35
165°	48	14
175°	8	2
180°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	2602.7
2.5°	2885.6
5°	1511.5
7.5°	638.5
10°	436.5
12.5°	274.8
15°	202.1
17.5°	169.7
20°	145.5
22.5°	137.4
25°	129.3
27.5°	129.3
30°	121.2
32.5°	121.2
35°	121.2
37.5°	129.3
40°	129.3
42.5°	129.3
45°	129.3
47.5°	137.4
50°	137.4
52.5°	137.4
55°	145.5
57.5°	145.5
60°	153.6
62.5°	153.6
65°	153.6
67.5°	153.6
70°	161.7
72.5°	161.7
75°	161.7
77.5°	161.7
80°	161.7
82.5°	161.7
85°	161.7
87.5°	161.7
90°	161.7
92.5°	161.7
95°	161.7
97.5°	161.7
100°	161.7
102.5°	161.7
105°	161.7
107.5°	161.7
110°	161.7

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	153.6
115°	153.6
117.5°	153.6
120°	145.5
122.5°	145.5
125°	137.4
127.5°	137.4
130°	129.3
132.5°	129.3
135°	121.2
137.5°	121.2
140°	113.2
142.5°	105.1
145°	105.1
147.5°	97.0
150°	88.9
152.5°	80.8
155°	72.7
157.5°	72.7
160°	64.7
162.5°	56.6
165°	48.5
167.5°	40.4
170°	32.3
172.5°	24.2
175°	8.1
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	8.6	9.7	9.5	10.6	11.8	8.6	9.7	9.5	10.6	11.8
	3H	11.7	12.7	12.6	13.6	14.8	11.7	12.7	12.6	13.6	14.8
	4H	13.2	14.1	14.1	15.0	16.3	13.2	14.1	14.1	15.0	16.3
	6H	14.6	15.5	15.6	16.4	17.7	14.6	15.5	15.6	16.4	17.7
	8H	15.3	16.1	16.2	17.1	18.3	15.3	16.1	16.2	17.1	18.3
	12H	16.0	16.8	16.9	17.7	19.0	16.0	16.8	16.9	17.7	19.0
4H	2H	9.4	10.3	10.3	11.3	12.5	9.4	10.3	10.3	11.3	12.5
	3H	12.7	13.5	13.6	14.5	15.7	12.7	13.5	13.6	14.5	15.7
	4H	14.3	15.1	15.3	16.0	17.3	14.3	15.1	15.3	16.0	17.3
	6H	15.9	16.6	16.9	17.6	18.8	15.9	16.6	16.9	17.6	18.8
	8H	16.7	17.3	17.6	18.3	19.5	16.7	17.3	17.6	18.3	19.5
	12H	17.5	18.0	18.4	19.0	20.3	17.5	18.0	18.4	19.0	20.3
8H	4H	14.8	15.5	15.8	16.4	17.7	14.8	15.5	15.8	16.4	17.7
	6H	16.6	17.2	17.6	18.2	19.4	16.6	17.2	17.6	18.2	19.4
	8H	17.6	18.0	18.5	19.0	20.3	17.6	18.0	18.5	19.0	20.3
	12H	18.5	18.9	19.5	19.9	21.2	18.5	18.9	19.5	19.9	21.2
12H	4H	15.0	15.5	15.9	16.5	17.8	15.0	15.5	15.9	16.5	17.8
	6H	16.8	17.3	17.8	18.3	19.6	16.8	17.3	17.8	18.3	19.6
	8H	17.8	18.3	18.8	19.3	20.6	17.8	18.3	18.8	19.3	20.6

(END OF REPORT)