

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P866691

Luminaire Tested: PRLX-2001-L-927-15L-G-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866691
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-62)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2001-L-927-15L-G-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 1
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

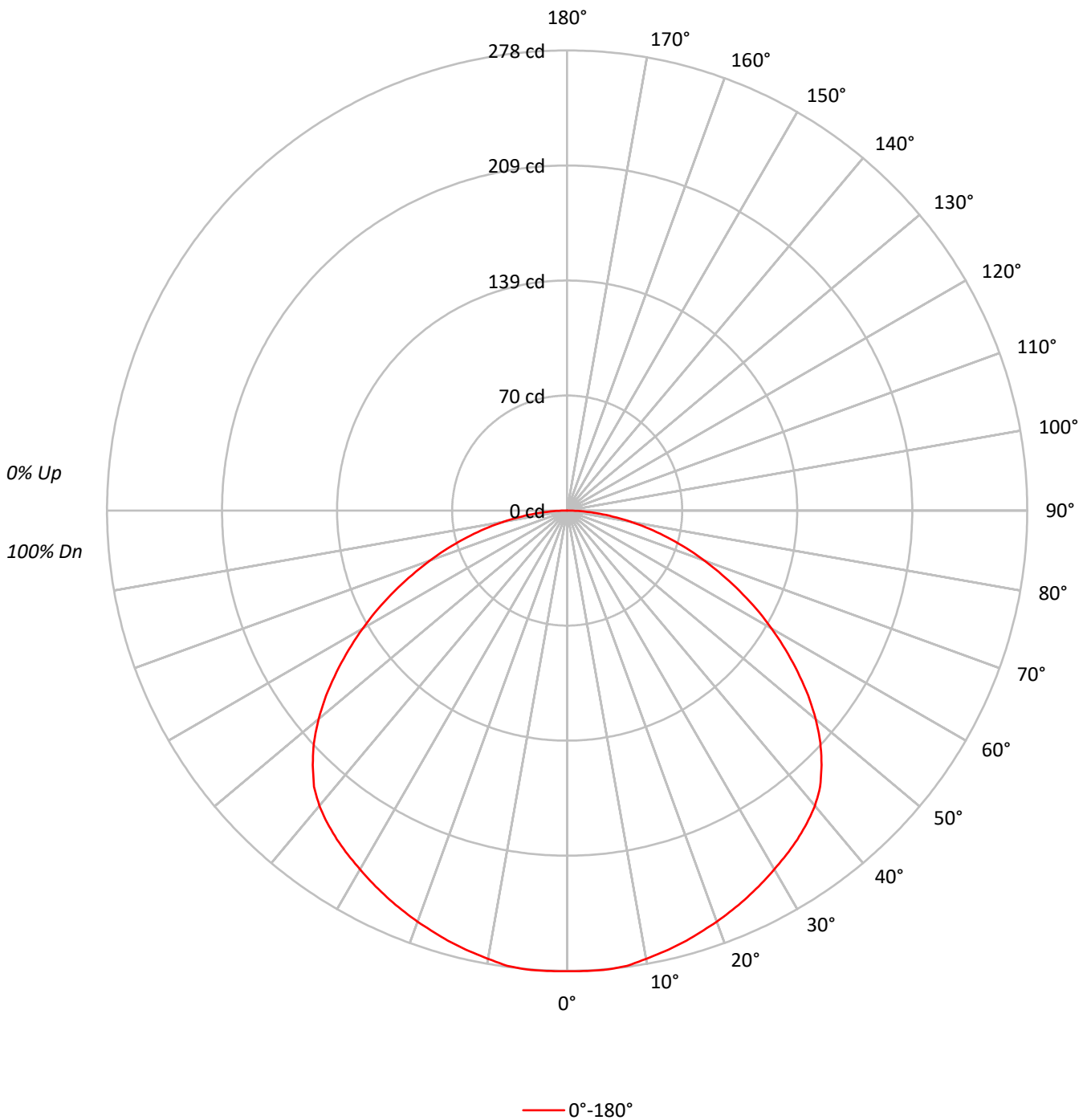
Lumens per Lamp: N/A
Luminaire Lumens: 893.4 lumens
Efficiency: N/A
Efficacy: 54.5 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.35 / 1.48
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 16.4
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: 0.333 HR
Operation Time: 3 HR
Ambient Temperature (°C): NR
Test Distance: 24 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	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	108	103	99	95	106	101	97	93	97	93	90		93	90	88		89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74		81	76	72		78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62		71	65	60		68	64	59	57
4	81	69	60	53	79	68	59	53	65	58	52		63	56	51		61	55	51	48
5	75	62	52	45	73	60	52	45	58	51	45		56	49	44		54	48	44	42
6	69	55	46	39	67	54	46	39	52	45	39		51	44	39		49	43	38	36
7	64	50	41	35	62	49	41	34	47	40	34		46	39	34		45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30		42	35	30		41	35	30	28
9	55	42	33	28	54	41	33	27	40	32	27		39	32	27		38	31	27	25
10	52	38	30	25	50	38	30	25	37	30	25		36	29	25		35	29	24	23

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1521
5°	1527
10°	1527
15°	1529
20°	1538
25°	1554
30°	1580
35°	1618
40°	1662
45°	1681
50°	1668
55°	1620
60°	1559
65°	1488
70°	1408
75°	1322
80°	1231
85°	1098

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1681 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.5	3.0
10°-20°	76.4	8.5
20°-30°	119.0	13.3
30°-40°	151.9	17.0
40°-50°	167.2	18.7
50°-60°	151.9	17.0
60°-70°	114.0	12.8
70°-80°	66.6	7.5
80°-90°	19.9	2.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	221.8	24.8
0°-40°	373.8	41.8
0°-60°	692.9	77.6
0°-90°	893.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	893.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	278	
5°	278	26
15°	270	76
25°	258	119
35°	242	152
45°	217	167
55°	170	152
65°	115	114
75°	63	67
85°	18	20
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	278.3
2.5°	278.4
5°	278.3
7.5°	277.4
10°	275.0
12.5°	272.7
15°	270.2
17.5°	267.2
20°	264.3
22.5°	261.1
25°	257.7
27.5°	254.1
30°	250.3
32.5°	246.5
35°	242.5
37.5°	238.0
40°	232.9
42.5°	226.3
45°	217.4
47.5°	207.5
50°	196.1
52.5°	183.6
55°	170.0
57.5°	156.5
60°	142.6
62.5°	129.0
65°	115.0
67.5°	101.3
70°	88.1
72.5°	75.4
75°	62.6
77.5°	50.9
80°	39.1
82.5°	28.0
85°	17.5
87.5°	8.2
90°	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	13.94	15.61	14.30	15.93	16.24	13.94	15.61	14.30	15.93	16.24
	3H	15.71	17.23	16.09	17.56	17.92	15.71	17.23	16.09	17.56	17.92
	4H	16.39	17.83	16.79	18.17	18.55	16.39	17.83	16.79	18.17	18.55
	6H	16.93	18.26	17.34	18.62	19.01	16.93	18.26	17.34	18.62	19.01
	8H	17.11	18.38	17.53	18.77	19.17	17.11	18.38	17.53	18.77	19.17
	12H	17.24	18.46	17.67	18.84	19.27	17.24	18.46	17.67	18.84	19.27
4H	2H	14.56	16.00	14.96	16.34	16.72	14.56	16.00	14.96	16.34	16.72
	3H	16.57	17.77	16.98	18.17	18.57	16.57	17.77	16.98	18.17	18.57
	4H	17.39	18.48	17.82	18.89	19.32	17.39	18.48	17.82	18.89	19.32
	6H	18.06	19.01	18.51	19.45	19.90	18.06	19.01	18.51	19.45	19.90
	8H	18.29	19.19	18.75	19.63	20.09	18.29	19.19	18.75	19.63	20.09
	12H	18.47	19.27	18.95	19.75	20.22	18.47	19.27	18.95	19.75	20.22
8H	4H	17.72	18.61	18.17	19.05	19.52	17.72	18.61	18.17	19.05	19.52
	6H	18.52	19.26	19.01	19.75	20.22	18.52	19.26	19.01	19.75	20.22
	8H	18.83	19.50	19.34	20.01	20.49	18.83	19.50	19.34	20.01	20.49
	12H	19.09	19.69	19.60	20.18	20.73	19.09	19.69	19.60	20.18	20.73
12H	4H	17.76	18.56	18.24	19.04	19.51	17.76	18.56	18.24	19.04	19.51
	6H	18.58	19.26	19.09	19.76	20.25	18.58	19.26	19.09	19.76	20.25
	8H	18.96	19.56	19.47	20.05	20.60	18.96	19.56	19.47	20.05	20.60