

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: P867391

Luminaire Tested: PRLX-2004-L-940-15L-L-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867391
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-84)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2004-L-940-15L-L-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS,
BELL WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 1
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

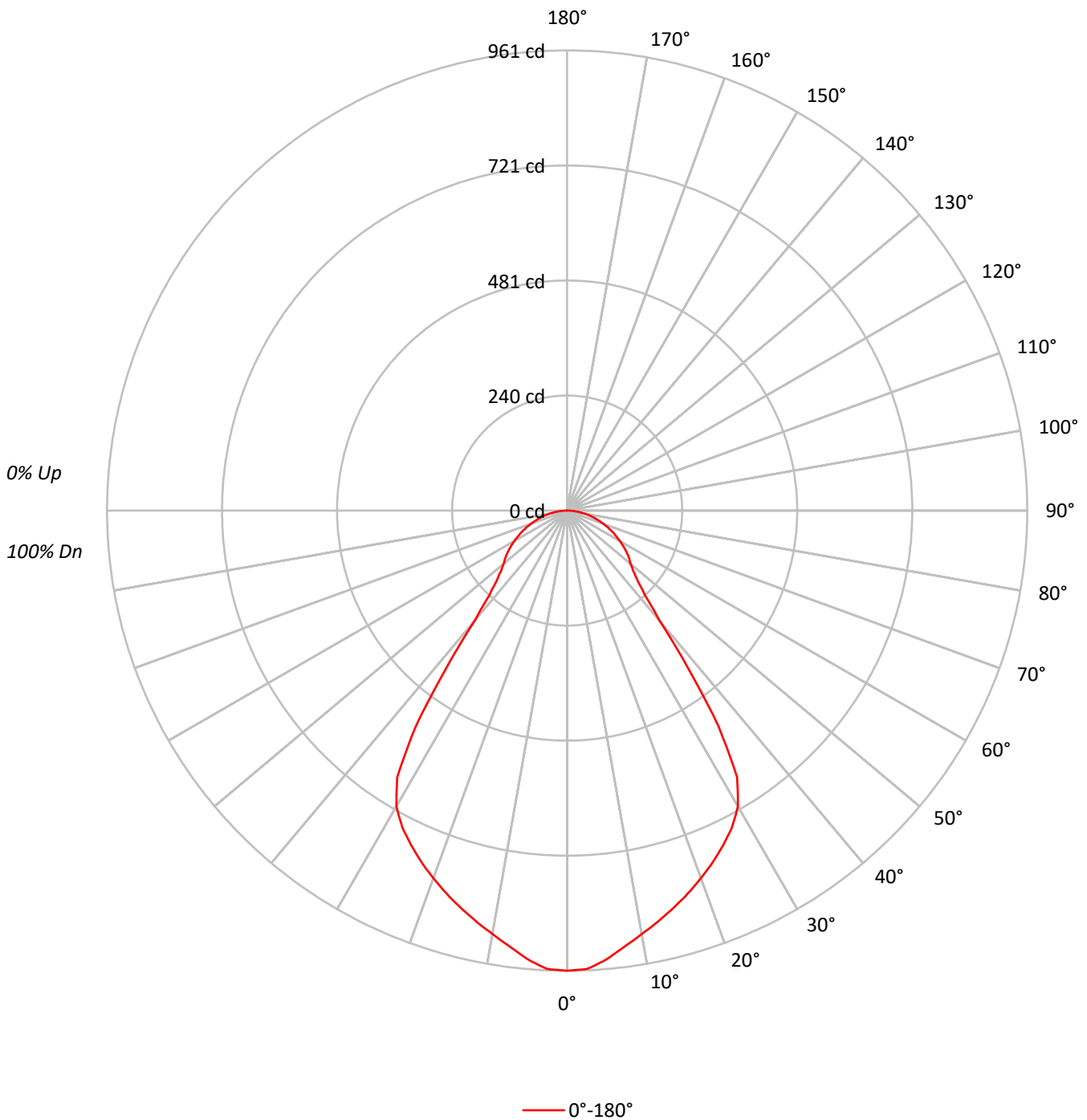
Lumens per Lamp: N/A
Luminaire Lumens: 1502.3 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.05
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

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: 0.5 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	111	107	103	100	108	105	101	98	100	98	95		97	94	92		93	91	90	88
2	103	96	90	85	100	94	89	84	91	86	82		87	84	81		85	82	79	77
3	95	87	80	74	93	85	79	74	82	77	72		80	75	71		77	73	70	68
4	89	79	71	66	87	77	70	65	75	69	64		73	68	63		71	66	63	61
5	83	72	64	59	81	71	64	58	69	63	58		67	61	57		65	60	57	55
6	78	66	58	53	76	65	58	53	63	57	52		62	56	52		60	55	51	50
7	73	61	53	48	71	60	53	48	59	52	48		57	52	47		56	51	47	45
8	68	57	49	44	67	56	49	44	55	48	44		53	48	43		52	47	43	41
9	64	53	45	40	63	52	45	40	51	45	40		50	44	40		49	44	40	38
10	61	49	42	37	60	49	42	37	48	41	37		47	41	37		46	41	37	35

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	4741
5°	4661
10°	4499
15°	4387
20°	4289
25°	4197
30°	4064
35°	3328
40°	1932
45°	1461
50°	1328
55°	1306
60°	1259
65°	1208
70°	1160
75°	1109
80°	1063
85°	1019

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1461 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.4	5.9
10°-20°	242.2	16.1
20°-30°	354.6	23.6
30°-40°	329.7	21.9
40°-50°	168.0	11.2
50°-60°	135.2	9.0
60°-70°	102.6	6.8
70°-80°	61.8	4.1
80°-90°	19.9	1.3
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°	685.2	45.6
0°-40°	1014.9	67.6
0°-60°	1318.0	87.7
0°-90°	1502.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1502.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	961	
5°	941	88
15°	859	242
25°	771	355
35°	552	330
45°	209	168
55°	152	135
65°	104	103
75°	58	62
85°	18	20
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	960.9
2.5°	958.1
5°	941.1
7.5°	918.3
10°	898.0
12.5°	878.7
15°	858.8
17.5°	838.5
20°	816.9
22.5°	794.9
25°	770.9
27.5°	745.6
30°	713.3
32.5°	660.3
35°	552.5
37.5°	414.6
40°	300.0
42.5°	241.2
45°	209.4
47.5°	187.1
50°	173.0
52.5°	162.9
55°	151.8
57.5°	139.4
60°	127.6
62.5°	115.3
65°	103.5
67.5°	91.8
70°	80.4
72.5°	69.3
75°	58.2
77.5°	47.8
80°	37.4
82.5°	27.7
85°	18.0
87.5°	8.6
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	11.39	12.74	11.75	13.05	13.37	11.39	12.74	11.75	13.05	13.37
	3H	13.18	14.40	13.56	14.73	15.09	13.18	14.40	13.56	14.73	15.09
	4H	13.89	15.03	14.29	15.38	15.76	13.89	15.03	14.29	15.38	15.76
	6H	14.45	15.50	14.86	15.87	16.26	14.45	15.50	14.86	15.87	16.26
	8H	14.65	15.65	15.08	16.04	16.44	14.65	15.65	15.08	16.04	16.44
	12H	14.80	15.75	15.23	16.13	16.56	14.80	15.75	15.23	16.13	16.56
4H	2H	11.97	13.11	12.38	13.46	13.84	11.97	13.11	12.38	13.46	13.84
	3H	13.99	14.94	14.41	15.34	15.74	13.99	14.94	14.41	15.34	15.74
	4H	14.83	15.68	15.27	16.10	16.54	14.83	15.68	15.27	16.10	16.54
	6H	15.53	16.27	15.99	16.71	17.18	15.53	16.27	15.99	16.71	17.18
	8H	15.79	16.48	16.25	16.92	17.39	15.79	16.48	16.25	16.92	17.39
	12H	15.98	16.60	16.47	17.08	17.55	15.98	16.60	16.47	17.08	17.55
8H	4H	15.14	15.83	15.60	16.27	16.74	15.14	15.83	15.60	16.27	16.74
	6H	15.98	16.55	16.48	17.04	17.52	15.98	16.55	16.48	17.04	17.52
	8H	16.33	16.83	16.85	17.35	17.84	16.33	16.83	16.85	17.35	17.84
	12H	16.62	17.07	17.13	17.56	18.13	16.62	17.07	17.13	17.56	18.13
12H	4H	15.17	15.78	15.65	16.26	16.73	15.17	15.78	15.65	16.26	16.73
	6H	16.04	16.55	16.56	17.06	17.56	16.04	16.55	16.56	17.06	17.56
	8H	16.46	16.90	16.97	17.40	17.96	16.46	16.90	16.97	17.40	17.96