

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: P865881

Luminaire Tested: PRLX-2004-S-940-20L-L-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865881
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-24)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2004-S-940-20L-L-U-S-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, FLAT LENS, BELL WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 4
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

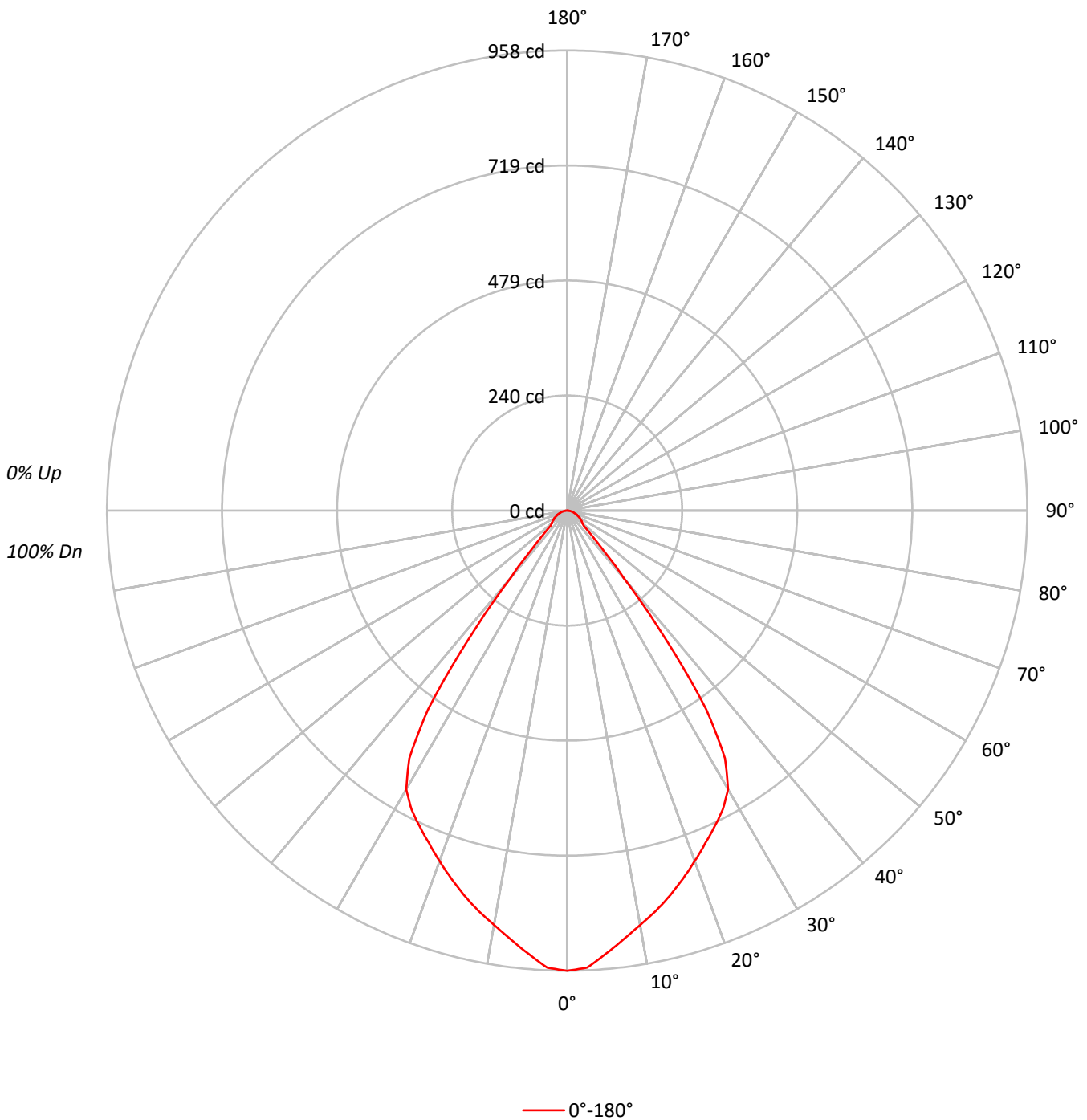
Lumens per Lamp: N/A
Luminaire Lumens: 1079.1 lumens
Efficiency: N/A
Efficacy: 49.5 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.02
Luminous Opening: Circular (Dia: 0.92' x H: 0')
CIE Type: Direct

Input Watts (W): 21.8
Input Voltage (V): 120
Input Current (Ain): 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	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	110	107	104	110	107	105	103	103	101	99	99	98	96	96	95	94	92
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	86	84
3	100	93	87	83	98	92	86	82	89	85	81	86	83	80	84	81	78	77
4	94	86	80	75	93	85	79	75	83	78	74	81	76	73	79	75	72	70
5	89	80	73	69	87	79	73	68	77	72	68	75	71	67	74	70	67	65
6	84	74	68	63	83	74	67	63	72	67	62	71	66	62	69	65	62	60
7	80	69	63	58	78	69	62	58	67	62	58	66	61	57	65	60	57	56
8	75	65	58	54	74	64	58	54	63	58	54	62	57	53	61	57	53	52
9	71	61	54	50	70	60	54	50	59	54	50	58	53	50	58	53	50	48
10	68	57	51	47	67	57	51	47	56	50	47	55	50	46	54	50	46	45

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	15628
5°	15167
10°	14506
15°	14000
20°	13481
25°	13067
30°	12618
35°	10061
40°	3905
45°	1555
50°	1045
55°	1012
60°	975
65°	868
70°	801
75°	826
80°	704
85°	692

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1555 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.8	8.0
10°-20°	233.2	21.6
20°-30°	334.4	31.0
30°-40°	288.8	26.8
40°-50°	63.4	5.9
50°-60°	31.8	2.9
60°-70°	22.9	2.1
70°-80°	13.6	1.3
80°-90°	4.1	0.4
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
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0°-30°	654.5	60.7
0°-40°	943.3	87.4
0°-60°	1038.5	96.2
0°-90°	1079.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1079.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	958	
5°	926	87
15°	829	233
25°	726	334
35°	505	289
45°	67	63
55°	36	32
65°	22	23
75°	13	14
85°	4	4
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	958.2
2.5°	952.6
5°	926.4
7.5°	900.2
10°	875.9
12.5°	853.4
15°	829.1
17.5°	802.9
20°	776.7
22.5°	750.5
25°	726.1
27.5°	701.8
30°	670.0
32.5°	612.0
35°	505.3
37.5°	335.0
40°	183.4
42.5°	108.5
45°	67.4
47.5°	46.8
50°	41.2
52.5°	39.3
55°	35.6
57.5°	31.8
60°	29.9
62.5°	26.2
65°	22.5
67.5°	20.6
70°	16.8
72.5°	15.0
75°	13.1
77.5°	11.2
80°	7.5
82.5°	5.6
85°	3.7
87.5°	1.9
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	6.80	7.86	7.16	8.17	8.49	6.80	7.86	7.16	8.17	8.49
	3H	8.43	9.37	8.81	9.70	10.07	8.43	9.37	8.81	9.70	10.07
	4H	9.10	9.98	9.51	10.33	10.72	9.10	9.98	9.51	10.33	10.72
	6H	9.64	10.44	10.05	10.81	11.21	9.64	10.44	10.05	10.81	11.21
	8H	9.78	10.54	10.22	10.93	11.34	9.78	10.54	10.22	10.93	11.34
	12H	9.88	10.60	10.32	10.99	11.42	9.88	10.60	10.32	10.99	11.42
4H	2H	7.27	8.14	7.68	8.50	8.88	7.27	8.14	7.68	8.50	8.88
	3H	9.10	9.82	9.52	10.23	10.63	9.10	9.82	9.52	10.23	10.63
	4H	9.93	10.57	10.37	10.99	11.44	9.93	10.57	10.37	10.99	11.44
	6H	10.59	11.14	11.06	11.59	12.06	10.59	11.14	11.06	11.59	12.06
	8H	10.78	11.29	11.26	11.74	12.22	10.78	11.29	11.26	11.74	12.22
	12H	10.93	11.37	11.42	11.86	12.34	10.93	11.37	11.42	11.86	12.34
8H	4H	10.20	10.71	10.68	11.16	11.64	10.20	10.71	10.68	11.16	11.64
	6H	10.98	11.39	11.49	11.89	12.37	10.98	11.39	11.49	11.89	12.37
	8H	11.25	11.61	11.78	12.13	12.63	11.25	11.61	11.78	12.13	12.63
	12H	11.49	11.80	12.01	12.30	12.88	11.49	11.80	12.01	12.30	12.88
12H	4H	10.21	10.65	10.70	11.14	11.61	10.21	10.65	10.70	11.14	11.61
	6H	11.01	11.38	11.54	11.90	12.39	11.01	11.38	11.54	11.90	12.39
	8H	11.34	11.66	11.86	12.15	12.73	11.34	11.66	11.86	12.15	12.73