

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: P865885

Luminaire Tested: PRLX-2004-S-940-25L-G-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865885
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2004-S-940-25L-G-U-S-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS,
BELL WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 5
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

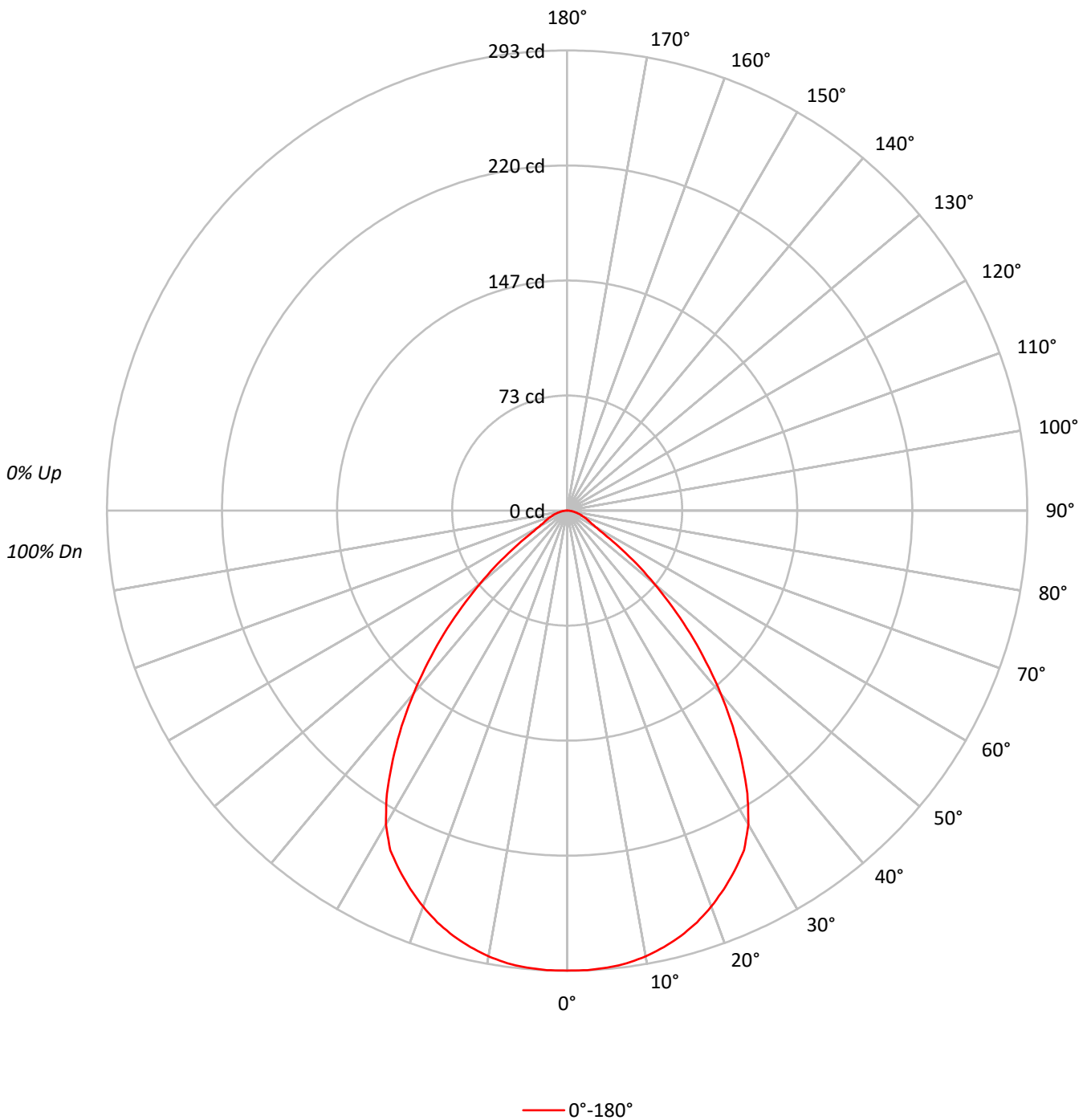
Lumens per Lamp: N/A
Luminaire Lumens: 490.8 lumens
Efficiency: N/A
Efficacy: 16.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.16
Luminous Opening: Circular (Dia: 0.92' x H: 0')
CIE Type: Direct

Input Watts (W): 29.1
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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	76	73	72
4	91	81	74	69	89	80	73	68	78	72	68	76	71	67	74	69	66	64
5	85	74	67	62	83	73	66	61	71	65	61	69	64	60	68	63	60	58
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43
9	66	54	47	42	64	53	47	42	52	46	42	51	46	41	50	45	41	40
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	4777
5°	4784
10°	4773
15°	4733
20°	4657
25°	4548
30°	4345
35°	3853
40°	3238
45°	2558
50°	1835
55°	1137
60°	672
65°	567
70°	501
75°	460
80°	394
85°	393

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2558 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.8	5.7
10°-20°	79.0	16.1
20°-30°	116.0	23.6
30°-40°	120.2	24.5
40°-50°	85.3	17.4
50°-60°	37.7	7.7
60°-70°	14.9	3.0
70°-80°	7.7	1.6
80°-90°	2.3	0.5
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°	222.7	45.4
0°-40°	342.9	69.9
0°-60°	465.9	94.9
0°-90°	490.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	490.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	293	
5°	292	28
15°	280	79
25°	253	116
35°	194	120
45°	111	85
55°	40	38
65°	15	15
75°	7	8
85°	2	2
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	292.9
2.5°	292.9
5°	292.2
7.5°	290.8
10°	288.2
12.5°	284.7
15°	280.3
17.5°	274.9
20°	268.3
22.5°	260.8
25°	252.7
27.5°	243.8
30°	230.7
32.5°	213.6
35°	193.5
37.5°	173.1
40°	152.1
42.5°	131.0
45°	110.9
47.5°	90.8
50°	72.3
52.5°	55.7
55°	40.0
57.5°	27.8
60°	20.6
62.5°	17.3
65°	14.7
67.5°	12.6
70°	10.5
72.5°	8.9
75°	7.3
77.5°	5.8
80°	4.2
82.5°	3.3
85°	2.1
87.5°	0.9
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	8.21	9.50	8.57	9.81	10.13	8.21	9.50	8.57	9.81	10.13
	3H	9.11	10.25	9.49	10.58	10.95	9.11	10.25	9.49	10.58	10.95
	4H	9.47	10.54	9.88	10.89	11.27	9.47	10.54	9.88	10.89	11.27
	6H	9.74	10.71	10.15	11.08	11.48	9.74	10.71	10.15	11.08	11.48
	8H	9.83	10.75	10.26	11.14	11.55	9.83	10.75	10.26	11.14	11.55
	12H	9.89	10.77	10.32	11.16	11.59	9.89	10.77	10.32	11.16	11.59
4H	2H	8.44	9.50	8.84	9.85	10.24	8.44	9.50	8.84	9.85	10.24
	3H	9.56	10.43	9.97	10.83	11.23	9.56	10.43	9.97	10.83	11.23
	4H	10.05	10.82	10.48	11.24	11.68	10.05	10.82	10.48	11.24	11.68
	6H	10.42	11.09	10.89	11.54	12.00	10.42	11.09	10.89	11.54	12.00
	8H	10.56	11.18	11.03	11.63	12.10	10.56	11.18	11.03	11.63	12.10
	12H	10.66	11.21	11.15	11.70	12.17	10.66	11.21	11.15	11.70	12.17
8H	4H	10.18	10.81	10.65	11.25	11.73	10.18	10.81	10.65	11.25	11.73
	6H	10.66	11.17	11.16	11.66	12.15	10.66	11.17	11.16	11.66	12.15
	8H	10.86	11.32	11.38	11.84	12.33	10.86	11.32	11.38	11.84	12.33
	12H	11.05	11.45	11.56	11.95	12.52	11.05	11.45	11.56	11.95	12.52
12H	4H	10.18	10.72	10.66	11.21	11.68	10.18	10.72	10.66	11.21	11.68
	6H	10.67	11.13	11.19	11.65	12.14	10.67	11.13	11.19	11.65	12.14
	8H	10.93	11.33	11.44	11.83	12.40	10.93	11.33	11.44	11.83	12.40