

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: P866397

Luminaire Tested: PRLX-2002-M-940-75L-G-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866397
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-39)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-M-940-75L-G-U-S-X-X-BRSS-X
Description: PRENATALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 8
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

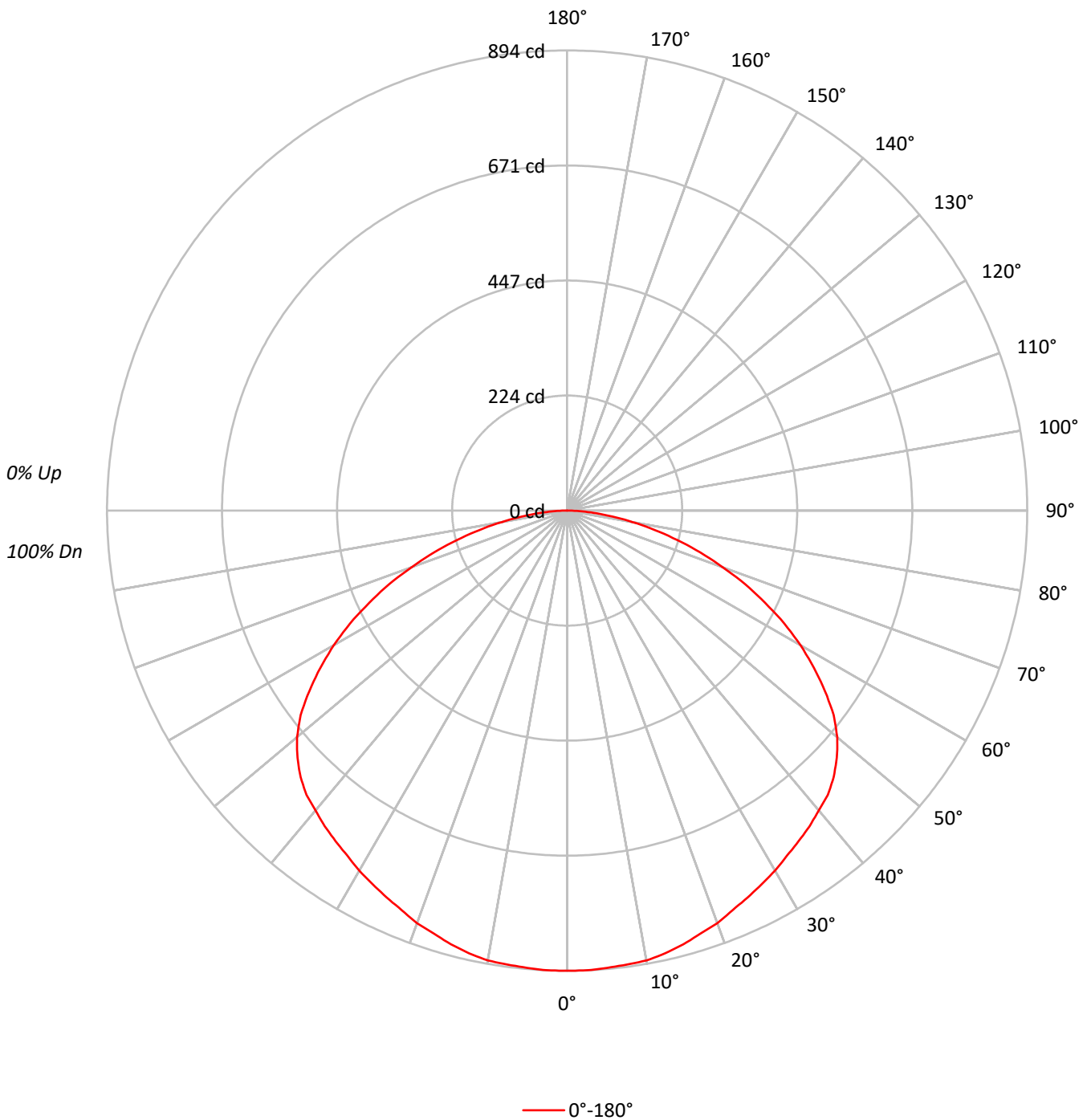
Lumens per Lamp: N/A
Luminaire Lumens: 3033.2 lumens
Efficiency: N/A
Efficacy: 43.5 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.53
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 69.7
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	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	105	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	58	56
4	81	68	59	52	78	67	58	52	64	57	51	62	56	50	60	54	50	47
5	74	61	51	44	72	59	51	44	57	50	44	55	48	43	53	47	43	40
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35
7	63	49	40	34	61	48	40	33	47	39	33	45	38	33	44	37	33	31
8	59	45	36	30	57	44	35	30	42	35	29	41	34	29	40	34	29	27
9	55	41	32	27	53	40	32	26	39	31	26	38	31	26	37	31	26	24
10	51	37	29	24	50	37	29	24	36	29	24	35	28	24	34	28	23	22

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	7112
5°	7122
10°	7170
15°	7185
20°	7222
25°	7280
30°	7421
35°	7615
40°	7897
45°	8240
50°	8478
55°	8485
60°	8328
65°	7987
70°	7464
75°	6821
80°	5919
85°	4719

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 8530 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.0	2.8
10°-20°	246.5	8.1
20°-30°	383.4	12.6
30°-40°	492.0	16.2
40°-50°	563.7	18.6
50°-60°	545.3	18.0
60°-70°	419.9	13.8
70°-80°	235.4	7.8
80°-90°	62.1	2.0
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°	714.8	23.6
0°-40°	1206.8	39.8
0°-60°	2315.8	76.3
0°-90°	3033.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3033.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	894	
5°	892	85
15°	872	246
25°	829	383
35°	784	492
45°	732	564
55°	612	545
65°	424	420
75°	222	235
85°	52	62
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	893.9
2.5°	893.9
5°	891.8
7.5°	889.6
10°	887.5
12.5°	881.0
15°	872.4
17.5°	861.6
20°	853.0
22.5°	840.1
25°	829.3
27.5°	818.5
30°	807.8
32.5°	794.8
35°	784.1
37.5°	773.3
40°	760.4
42.5°	749.6
45°	732.4
47.5°	710.8
50°	685.0
52.5°	652.7
55°	611.7
57.5°	568.7
60°	523.4
62.5°	476.0
65°	424.3
67.5°	374.8
70°	320.9
72.5°	271.4
75°	221.9
77.5°	174.5
80°	129.2
82.5°	88.3
85°	51.7
87.5°	23.7
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	19.93	21.63	20.30	21.95	22.26	19.93	21.63	20.30	21.95	22.26
	3H	21.74	23.28	22.12	23.61	23.97	21.74	23.28	22.12	23.61	23.97
	4H	22.39	23.85	22.79	24.20	24.57	22.39	23.85	22.79	24.20	24.57
	6H	22.86	24.21	23.27	24.57	24.96	22.86	24.21	23.27	24.57	24.96
	8H	23.00	24.29	23.42	24.68	25.07	23.00	24.29	23.42	24.68	25.07
	12H	23.08	24.32	23.51	24.70	25.13	23.08	24.32	23.51	24.70	25.13
4H	2H	20.58	22.04	20.98	22.39	22.76	20.58	22.04	20.98	22.39	22.76
	3H	22.60	23.83	23.01	24.22	24.62	22.60	23.83	23.01	24.22	24.62
	4H	23.38	24.49	23.81	24.90	25.34	23.38	24.49	23.81	24.90	25.34
	6H	23.96	24.94	24.42	25.38	25.83	23.96	24.94	24.42	25.38	25.83
	8H	24.15	25.06	24.61	25.50	25.96	24.15	25.06	24.61	25.50	25.96
	12H	24.28	25.10	24.75	25.57	26.04	24.28	25.10	24.75	25.57	26.04
8H	4H	23.69	24.60	24.15	25.04	25.50	23.69	24.60	24.15	25.04	25.50
	6H	24.39	25.15	24.88	25.63	26.10	24.39	25.15	24.88	25.63	26.10
	8H	24.64	25.32	25.14	25.82	26.30	24.64	25.32	25.14	25.82	26.30
	12H	24.83	25.43	25.33	25.92	26.48	24.83	25.43	25.33	25.92	26.48
12H	4H	23.72	24.54	24.20	25.02	25.49	23.72	24.54	24.20	25.02	25.49
	6H	24.44	25.12	24.94	25.62	26.11	24.44	25.12	24.94	25.62	26.11
	8H	24.74	25.34	25.25	25.83	26.39	24.74	25.34	25.25	25.83	26.39