

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: P866141

Luminaire Tested: PRLX-2001-M-940-75L-G-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866141
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-35)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-M-940-75L-G-U-S-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 8
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

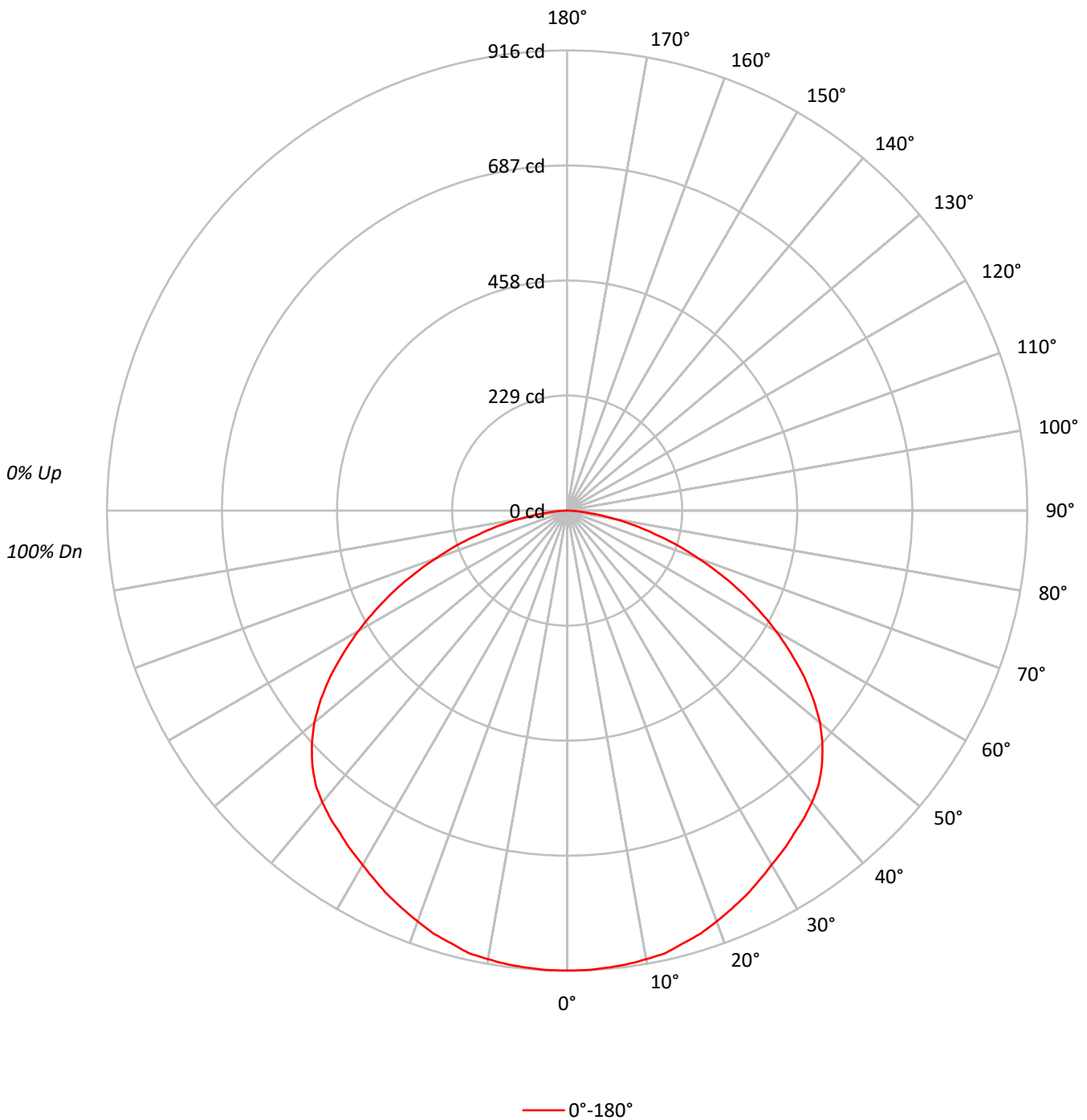
Lumens per Lamp: N/A
Luminaire Lumens: 2896.4 lumens
Efficiency: N/A
Efficacy: 41.6 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.49
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

Input Watts (W): 69.7
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	109	104	100	96	106	102	98	94	97	94	91	94	91	88	90	88	86	84
2	99	90	83	78	96	88	82	77	85	79	75	82	77	73	79	75	72	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	37
7	64	50	41	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
10	52	39	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	7769
5°	7780
10°	7814
15°	7835
20°	7858
25°	7906
30°	7978
35°	8145
40°	8399
45°	8608
50°	8674
55°	8509
60°	8152
65°	7656
70°	6895
75°	5931
80°	4735
85°	2940

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 8674 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.0	3.0
10°-20°	252.2	8.7
20°-30°	389.6	13.5
30°-40°	493.6	17.0
40°-50°	551.7	19.0
50°-60°	512.0	17.7
60°-70°	376.1	13.0
70°-80°	194.1	6.7
80°-90°	40.1	1.4
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
0°-30°	728.7	25.2
0°-40°	1222.3	42.2
0°-60°	2286.0	78.9
0°-90°	2896.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2896.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	916	
5°	913	87
15°	892	252
25°	844	390
35°	786	494
45°	717	552
55°	575	512
65°	381	376
75°	181	194
85°	30	40
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	915.5
2.5°	915.5
5°	913.3
7.5°	911.1
10°	906.8
12.5°	902.5
15°	891.8
17.5°	883.1
20°	870.2
22.5°	857.3
25°	844.4
27.5°	829.3
30°	814.2
32.5°	801.3
35°	786.2
37.5°	773.3
40°	758.2
42.5°	741.0
45°	717.3
47.5°	689.3
50°	657.0
52.5°	618.2
55°	575.1
57.5°	527.7
60°	480.3
62.5°	430.8
65°	381.3
67.5°	329.6
70°	277.9
72.5°	230.5
75°	180.9
77.5°	137.9
80°	96.9
82.5°	60.3
85°	30.2
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	19.83	21.50	20.20	21.82	22.13	19.83	21.50	20.20	21.82	22.13
	3H	21.48	22.98	21.85	23.31	23.67	21.48	22.98	21.85	23.31	23.67
	4H	22.02	23.44	22.42	23.79	24.16	22.02	23.44	22.42	23.79	24.16
	6H	22.37	23.68	22.78	24.04	24.44	22.37	23.68	22.78	24.04	24.44
	8H	22.45	23.70	22.87	24.09	24.49	22.45	23.70	22.87	24.09	24.49
	12H	22.48	23.68	22.91	24.07	24.49	22.48	23.68	22.91	24.07	24.49
4H	2H	20.44	21.86	20.84	22.21	22.58	20.44	21.86	20.84	22.21	22.58
	3H	22.28	23.47	22.69	23.87	24.27	22.28	23.47	22.69	23.87	24.27
	4H	22.94	24.01	23.37	24.42	24.86	22.94	24.01	23.37	24.42	24.86
	6H	23.38	24.32	23.84	24.76	25.22	23.38	24.32	23.84	24.76	25.22
	8H	23.50	24.37	23.95	24.81	25.28	23.50	24.37	23.95	24.81	25.28
	12H	23.55	24.34	24.03	24.82	25.29	23.55	24.34	24.03	24.82	25.29
8H	4H	23.19	24.07	23.65	24.51	24.97	23.19	24.07	23.65	24.51	24.97
	6H	23.72	24.45	24.21	24.94	25.41	23.72	24.45	24.21	24.94	25.41
	8H	23.88	24.53	24.38	25.03	25.52	23.88	24.53	24.38	25.03	25.52
	12H	23.97	24.55	24.48	25.04	25.60	23.97	24.55	24.48	25.04	25.60
12H	4H	23.21	23.99	23.69	24.47	24.94	23.21	23.99	23.69	24.47	24.94
	6H	23.75	24.40	24.25	24.90	25.39	23.75	24.40	24.25	24.90	25.39
	8H	23.94	24.52	24.45	25.01	25.57	23.94	24.52	24.45	25.01	25.57