

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: P866659

Luminaire Tested: PRLX-2004-M-940-75L-L-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866659
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-54)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2004-M-940-75L-L-U-S-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS,
BELL WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 8
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

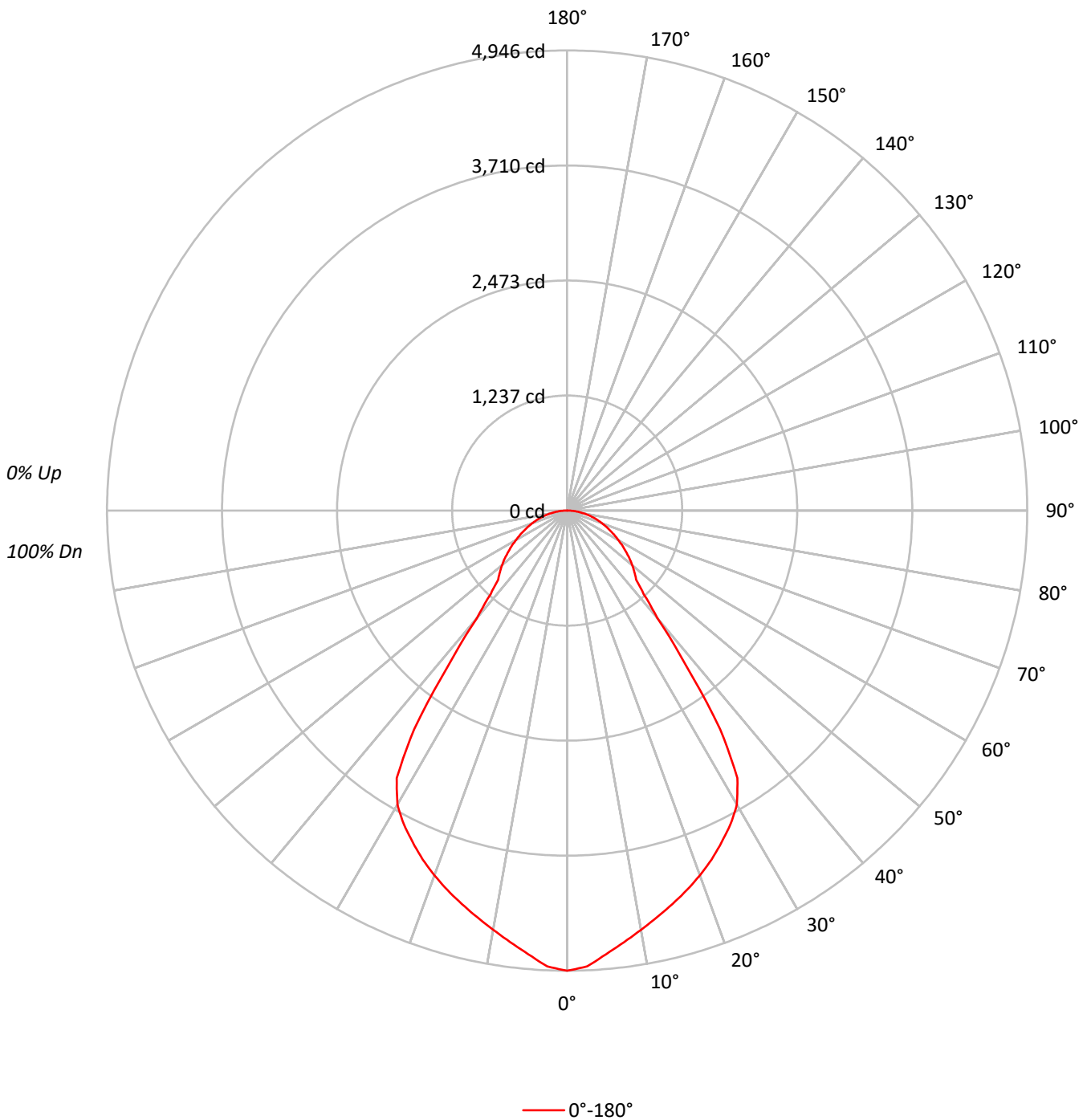
Lumens per Lamp: N/A
Luminaire Lumens: 7657.9 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.05
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

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	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	83	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	71	65	75	69	64	73	68	64	71	66	63	61
5	83	72	64	59	81	71	64	58	69	63	58	67	62	57	65	61	57	55
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	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	54	48	43	52	47	43	42
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°	39346
5°	38223
10°	36960
15°	36051
20°	35324
25°	34508
30°	33521
35°	27866
40°	15682
45°	11802
50°	11331
55°	10726
60°	10110
65°	9610
70°	9270
75°	9003
80°	8783
85°	8654

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 11802 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	450.5	5.9
10°-20°	1234.7	16.1
20°-30°	1809.9	23.6
30°-40°	1690.8	22.1
40°-50°	857.5	11.2
50°-60°	692.3	9.0
60°-70°	509.0	6.6
70°-80°	309.7	4.0
80°-90°	103.5	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°	3495.1	45.6
0°-40°	5186.0	67.7
0°-60°	6735.8	88.0
0°-90°	7657.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7657.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4946	
5°	4786	451
15°	4377	1235
25°	3931	1810
35°	2869	1691
45°	1049	857
55°	773	692
65°	510	509
75°	293	310
85°	95	103
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	4945.6
2.5°	4904.7
5°	4786.2
7.5°	4678.5
10°	4575.1
12.5°	4476.1
15°	4377.0
17.5°	4277.9
20°	4172.3
22.5°	4058.2
25°	3931.1
27.5°	3801.8
30°	3648.9
32.5°	3407.7
35°	2869.2
37.5°	2091.6
40°	1510.0
42.5°	1217.0
45°	1049.0
47.5°	980.1
50°	915.5
52.5°	844.4
55°	773.3
57.5°	704.4
60°	635.4
62.5°	575.1
65°	510.5
67.5°	454.5
70°	398.5
72.5°	344.6
75°	292.9
77.5°	241.3
80°	191.7
82.5°	142.2
85°	94.8
87.5°	47.4
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	18.64	19.99	19.01	20.31	20.62	18.64	19.99	19.01	20.31	20.62
	3H	20.38	21.59	20.76	21.92	22.29	20.38	21.59	20.76	21.92	22.29
	4H	21.09	22.22	21.49	22.57	22.96	21.09	22.22	21.49	22.57	22.96
	6H	21.67	22.71	22.08	23.08	23.47	21.67	22.71	22.08	23.08	23.47
	8H	21.88	22.87	22.31	23.26	23.66	21.88	22.87	22.31	23.26	23.66
	12H	22.03	22.98	22.47	23.37	23.80	22.03	22.98	22.47	23.37	23.80
4H	2H	19.20	20.33	19.60	20.68	21.06	19.20	20.33	19.60	20.68	21.06
	3H	21.17	22.11	21.58	22.52	22.92	21.17	22.11	21.58	22.52	22.92
	4H	22.02	22.87	22.45	23.29	23.73	22.02	22.87	22.45	23.29	23.73
	6H	22.74	23.48	23.20	23.92	24.39	22.74	23.48	23.20	23.92	24.39
	8H	23.01	23.70	23.47	24.14	24.61	23.01	23.70	23.47	24.14	24.61
	12H	23.22	23.83	23.71	24.31	24.79	23.22	23.83	23.71	24.31	24.79
8H	4H	22.33	23.02	22.79	23.46	23.93	22.33	23.02	22.79	23.46	23.93
	6H	23.20	23.76	23.70	24.26	24.74	23.20	23.76	23.70	24.26	24.74
	8H	23.56	24.07	24.08	24.58	25.07	23.56	24.07	24.08	24.58	25.07
	12H	23.88	24.32	24.39	24.82	25.39	23.88	24.32	24.39	24.82	25.39
12H	4H	22.36	22.97	22.84	23.45	23.92	22.36	22.97	22.84	23.45	23.92
	6H	23.27	23.77	23.79	24.29	24.78	23.27	23.77	23.79	24.29	24.78
	8H	23.70	24.14	24.21	24.64	25.21	23.70	24.14	24.21	24.64	25.21