

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: P867167

Luminaire Tested: PRLX-2002-L-940-83L-L-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867167
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-80)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-L-940-83L-L-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 5
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

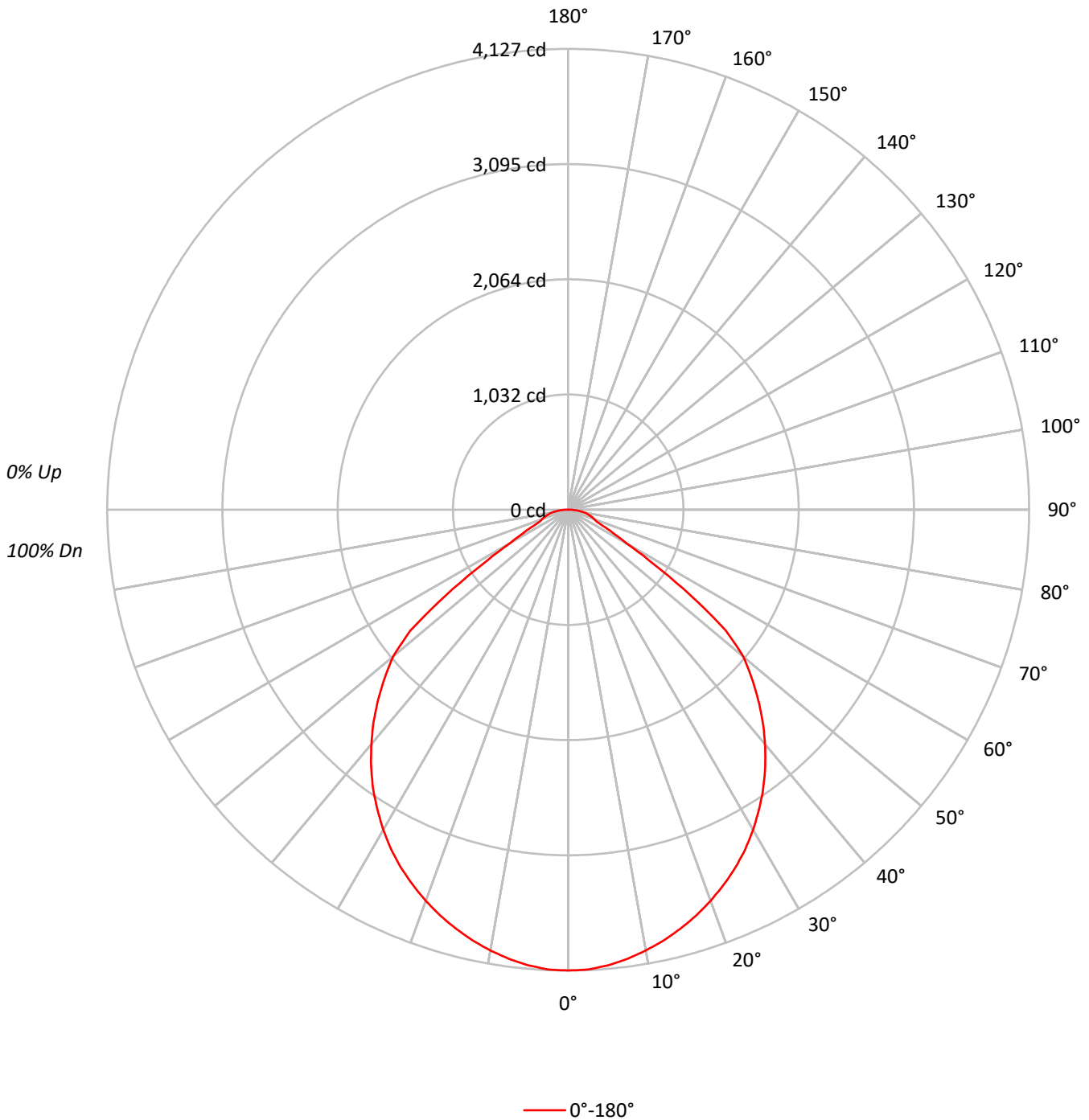
Lumens per Lamp: N/A
Luminaire Lumens: 8717.3 lumens
Efficiency: N/A
Efficacy: 135.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.3
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 64.5
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	111	107	103	100	108	105	101	99	101	98	96	97	95	93	93	91	90	88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67
4	88	77	69	64	85	76	69	63	73	67	62	71	66	62	69	65	61	59
5	81	70	62	56	79	69	61	56	67	60	55	65	59	54	63	58	54	52
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	52	48	46
7	70	58	50	44	69	57	49	44	56	49	44	54	48	43	53	47	43	41
8	66	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37
9	61	49	41	36	60	48	41	36	47	40	36	46	40	36	45	40	35	34
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	36	32	31

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	20361
5°	20286
10°	20076
15°	19835
20°	19567
25°	19263
30°	18854
35°	18340
40°	17655
45°	16781
50°	15702
55°	11502
60°	6011
65°	4005
70°	3582
75°	3807
80°	4162
85°	4585

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16781 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	388.1	4.5
10°-20°	1095.2	12.6
20°-30°	1628.7	18.7
30°-40°	1901.1	21.8
40°-50°	1852.2	21.2
50°-60°	1186.6	13.6
60°-70°	369.5	4.2
70°-80°	210.5	2.4
80°-90°	85.2	1.0
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°	3112.1	35.7
0°-40°	5013.3	57.5
0°-60°	8052.1	92.4
0°-90°	8717.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8717.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4127	
5°	4096	388
15°	3883	1095
25°	3538	1629
35°	3045	1901
45°	2405	1852
55°	1337	1187
65°	343	369
75°	200	210
85°	81	85
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	4126.9
2.5°	4120.7
5°	4096.0
7.5°	4057.5
10°	4007.3
12.5°	3951.1
15°	3883.2
17.5°	3810.7
20°	3726.7
22.5°	3636.5
25°	3538.5
27.5°	3430.6
30°	3309.5
32.5°	3180.7
35°	3045.0
37.5°	2898.5
40°	2741.2
42.5°	2578.5
45°	2405.0
47.5°	2227.7
50°	2045.7
52.5°	1780.4
55°	1337.1
57.5°	905.3
60°	609.2
62.5°	454.2
65°	343.1
67.5°	272.2
70°	248.3
72.5°	225.9
75°	199.7
77.5°	174.3
80°	146.5
82.5°	115.7
85°	81.0
87.5°	43.2
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	18.02	19.48	18.39	19.79	20.10	18.02	19.48	18.39	19.79	20.10
	3H	18.44	19.73	18.82	20.06	20.42	18.44	19.73	18.82	20.06	20.42
	4H	18.72	19.93	19.12	20.27	20.66	18.72	19.93	19.12	20.27	20.66
	6H	19.04	20.15	19.45	20.52	20.91	19.04	20.15	19.45	20.52	20.91
	8H	19.19	20.24	19.61	20.63	21.03	19.19	20.24	19.61	20.63	21.03
	12H	19.31	20.32	19.74	20.70	21.13	19.31	20.32	19.74	20.70	21.13
4H	2H	18.08	19.28	18.48	19.63	20.01	18.08	19.28	18.48	19.63	20.01
	3H	18.69	19.68	19.11	20.08	20.48	18.69	19.68	19.11	20.08	20.48
	4H	19.12	20.00	19.55	20.42	20.86	19.12	20.00	19.55	20.42	20.86
	6H	19.61	20.37	20.07	20.82	21.28	19.61	20.37	20.07	20.82	21.28
	8H	19.83	20.55	20.30	20.99	21.46	19.83	20.55	20.30	20.99	21.46
	12H	20.03	20.67	20.52	21.15	21.62	20.03	20.67	20.52	21.15	21.62
8H	4H	19.26	19.98	19.73	20.42	20.89	19.26	19.98	19.73	20.42	20.89
	6H	19.89	20.49	20.39	20.98	21.46	19.89	20.49	20.39	20.98	21.46
	8H	20.21	20.75	20.73	21.26	21.75	20.21	20.75	20.73	21.26	21.75
	12H	20.52	21.00	21.03	21.49	22.06	20.52	21.00	21.03	21.49	22.06
12H	4H	19.28	19.91	19.76	20.39	20.87	19.28	19.91	19.76	20.39	20.87
	6H	19.94	20.48	20.46	20.99	21.48	19.94	20.48	20.46	20.99	21.48
	8H	20.33	20.81	20.84	21.30	21.87	20.33	20.81	20.84	21.30	21.87