

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: P867135

Luminaire Tested: PRLX-2002-L-940-15L-L-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867135
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: Pentalux
Catalog Number: PRLX-2002-L-940-15L-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 1
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

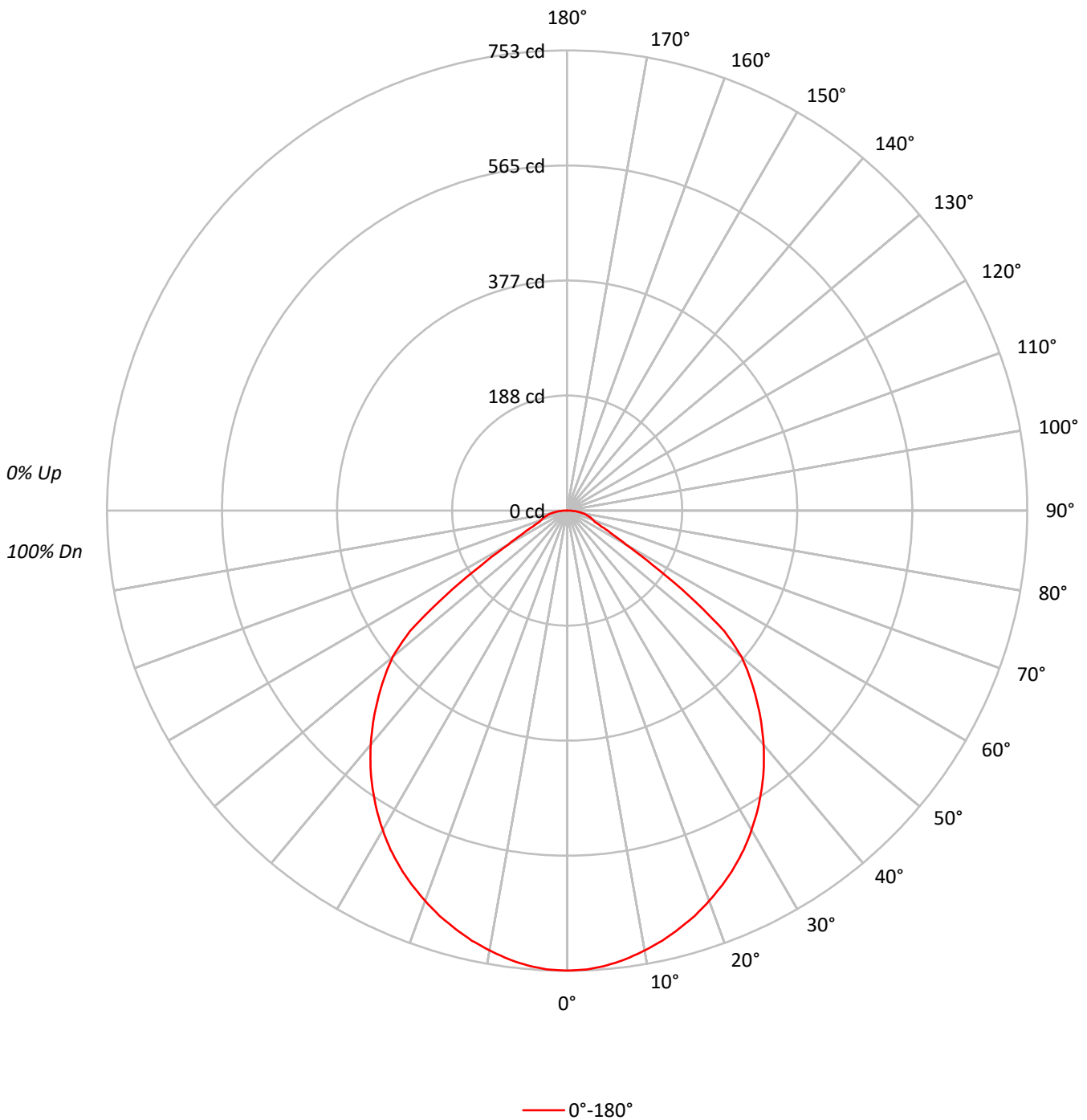
Lumens per Lamp: N/A
Luminaire Lumens: 1590.0 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.3
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 16.4
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°	3714
5°	3700
10°	3662
15°	3618
20°	3569
25°	3513
30°	3439
35°	3345
40°	3220
45°	3061
50°	2864
55°	2098
60°	1096
65°	731
70°	653
75°	694
80°	759
85°	838

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3061 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.8	4.5
10°-20°	199.8	12.6
20°-30°	297.1	18.7
30°-40°	346.8	21.8
40°-50°	337.8	21.2
50°-60°	216.4	13.6
60°-70°	67.4	4.2
70°-80°	38.4	2.4
80°-90°	15.6	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°	567.6	35.7
0°-40°	914.4	57.5
0°-60°	1468.7	92.4
0°-90°	1590.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1590.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	753	
5°	747	71
15°	708	200
25°	645	297
35°	555	347
45°	439	338
55°	244	216
65°	63	67
75°	36	38
85°	15	16
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	752.7
2.5°	751.6
5°	747.1
7.5°	740.1
10°	730.9
12.5°	720.7
15°	708.3
17.5°	695.1
20°	679.7
22.5°	663.3
25°	645.4
27.5°	625.7
30°	603.6
32.5°	580.2
35°	555.4
37.5°	528.7
40°	500.0
42.5°	470.3
45°	438.7
47.5°	406.3
50°	373.1
52.5°	324.7
55°	243.9
57.5°	165.1
60°	111.1
62.5°	82.8
65°	62.6
67.5°	49.6
70°	45.3
72.5°	41.2
75°	36.4
77.5°	31.8
80°	26.7
82.5°	21.1
85°	14.8
87.5°	7.9
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	12.11	13.56	12.47	13.88	14.19	12.11	13.56	12.47	13.88	14.19
	3H	12.52	13.81	12.90	14.14	14.51	12.52	13.81	12.90	14.14	14.51
	4H	12.81	14.01	13.21	14.36	14.74	12.81	14.01	13.21	14.36	14.74
	6H	13.13	14.24	13.54	14.60	15.00	13.13	14.24	13.54	14.60	15.00
	8H	13.27	14.33	13.70	14.72	15.12	13.27	14.33	13.70	14.72	15.12
	12H	13.40	14.41	13.83	14.79	15.22	13.40	14.41	13.83	14.79	15.22
4H	2H	12.17	13.37	12.57	13.72	14.10	12.17	13.37	12.57	13.72	14.10
	3H	12.78	13.76	13.19	14.17	14.57	12.78	13.76	13.19	14.17	14.57
	4H	13.20	14.08	13.64	14.50	14.94	13.20	14.08	13.64	14.50	14.94
	6H	13.70	14.46	14.16	14.90	15.37	13.70	14.46	14.16	14.90	15.37
	8H	13.92	14.63	14.38	15.08	15.55	13.92	14.63	14.38	15.08	15.55
	12H	14.12	14.76	14.60	15.24	15.71	14.12	14.76	14.60	15.24	15.71
8H	4H	13.35	14.06	13.82	14.51	14.98	13.35	14.06	13.82	14.51	14.98
	6H	13.98	14.57	14.48	15.07	15.55	13.98	14.57	14.48	15.07	15.55
	8H	14.30	14.84	14.82	15.35	15.84	14.30	14.84	14.82	15.35	15.84
	12H	14.61	15.09	15.12	15.58	16.15	14.61	15.09	15.12	15.58	16.15
12H	4H	13.36	14.00	13.85	14.48	14.95	13.36	14.00	13.85	14.48	14.95
	6H	14.03	14.56	14.54	15.08	15.57	14.03	14.56	14.54	15.08	15.57
	8H	14.41	14.89	14.92	15.39	15.95	14.41	14.89	14.92	15.39	15.95