

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: P866903

Luminaire Tested: PRLX-2001-L-940-67L-L-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866903
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-76)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2001-L-940-67L-L-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS,
TAPERED DRUM WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 4
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

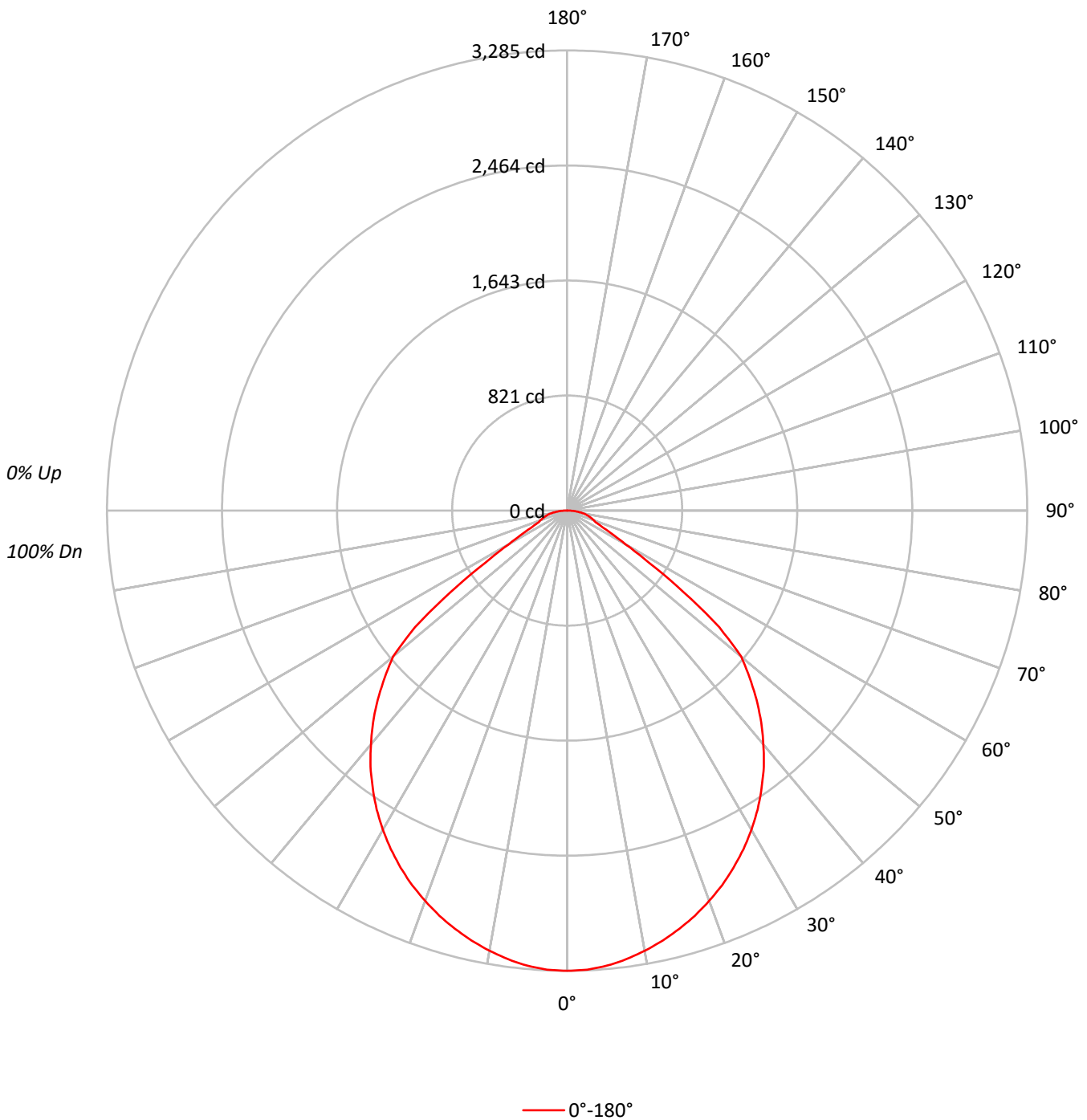
Lumens per Lamp: N/A
Luminaire Lumens: 6908.0 lumens
Efficiency: N/A
Efficacy: 137.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.3
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 50.4
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	70	64	86	76	69	63	74	67	62		71	66	62		69	65	61	59
5	81	70	62	56	79	69	61	56	67	60	55		65	59	55		63	58	54	52
6	75	63	55	50	74	63	55	49	61	54	49		59	53	49		58	52	48	46
7	70	58	50	44	69	57	50	44	56	49	44		54	48	44		53	47	43	41
8	66	53	45	40	64	52	45	40	51	44	40		50	44	39		49	43	39	37
9	61	49	41	36	60	48	41	36	47	41	36		46	40	36		45	40	36	34
10	58	45	38	33	56	45	38	33	44	37	33		43	37	33		42	37	32	31

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	17960
5°	17897
10°	17712
15°	17496
20°	17249
25°	16963
30°	16606
35°	16148
40°	15555
45°	14784
50°	13795
55°	9688
60°	5245
65°	3572
70°	3246
75°	3447
80°	3709
85°	3964

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 14784 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.0	4.5
10°-20°	871.7	12.6
20°-30°	1294.8	18.7
30°-40°	1511.8	21.9
40°-50°	1471.6	21.3
50°-60°	915.6	13.3
60°-70°	295.2	4.3
70°-80°	171.3	2.5
80°-90°	66.9	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°	2475.6	35.8
0°-40°	3987.4	57.7
0°-60°	6374.6	92.3
0°-90°	6908.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6908.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3285	
5°	3261	309
15°	3091	872
25°	2812	1295
35°	2420	1512
45°	1912	1472
55°	1016	916
65°	276	295
75°	163	171
85°	63	67
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	3285.2
2.5°	3281.5
5°	3261.2
7.5°	3230.6
10°	3190.7
12.5°	3145.3
15°	3091.3
17.5°	3032.4
20°	2964.9
22.5°	2893.8
25°	2812.2
27.5°	2725.1
30°	2630.6
32.5°	2530.6
35°	2419.6
37.5°	2306.1
40°	2179.7
42.5°	2051.5
45°	1912.2
47.5°	1766.8
50°	1622.0
52.5°	1369.3
55°	1016.5
57.5°	692.6
60°	479.7
62.5°	358.3
65°	276.1
67.5°	220.9
70°	203.1
72.5°	183.4
75°	163.2
77.5°	141.7
80°	117.8
82.5°	92.0
85°	63.2
87.5°	31.9
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	17.34	18.79	17.70	19.10	19.42	17.34	18.79	17.70	19.10	19.42
	3H	17.82	19.11	18.20	19.43	19.80	17.82	19.11	18.20	19.43	19.80
	4H	18.14	19.34	18.54	19.69	20.07	18.14	19.34	18.54	19.69	20.07
	6H	18.49	19.60	18.90	19.96	20.36	18.49	19.60	18.90	19.96	20.36
	8H	18.64	19.69	19.07	20.08	20.49	18.64	19.69	19.07	20.08	20.49
	12H	18.77	19.78	19.20	20.16	20.59	18.77	19.78	19.20	20.16	20.59
4H	2H	17.42	18.62	17.82	18.97	19.35	17.42	18.62	17.82	18.97	19.35
	3H	18.11	19.10	18.53	19.50	19.90	18.11	19.10	18.53	19.50	19.90
	4H	18.58	19.46	19.02	19.88	20.32	18.58	19.46	19.02	19.88	20.32
	6H	19.11	19.87	19.57	20.32	20.78	19.11	19.87	19.57	20.32	20.78
	8H	19.34	20.05	19.81	20.50	20.97	19.34	20.05	19.81	20.50	20.97
	12H	19.54	20.18	20.02	20.66	21.13	19.54	20.18	20.02	20.66	21.13
8H	4H	18.75	19.46	19.22	19.91	20.38	18.75	19.46	19.22	19.91	20.38
	6H	19.42	20.01	19.92	20.50	20.98	19.42	20.01	19.92	20.50	20.98
	8H	19.74	20.28	20.26	20.79	21.28	19.74	20.28	20.26	20.79	21.28
	12H	20.05	20.53	20.56	21.02	21.59	20.05	20.53	20.56	21.02	21.59
12H	4H	18.77	19.40	19.25	19.88	20.36	18.77	19.40	19.25	19.88	20.36
	6H	19.47	20.00	19.99	20.52	21.01	19.47	20.00	19.99	20.52	21.01
	8H	19.86	20.34	20.37	20.83	21.40	19.86	20.34	20.37	20.83	21.40