

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: P866896

Luminaire Tested: PRLX-2001-L-940-48L-G-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866896
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-67)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2001-L-940-48L-G-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 3
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

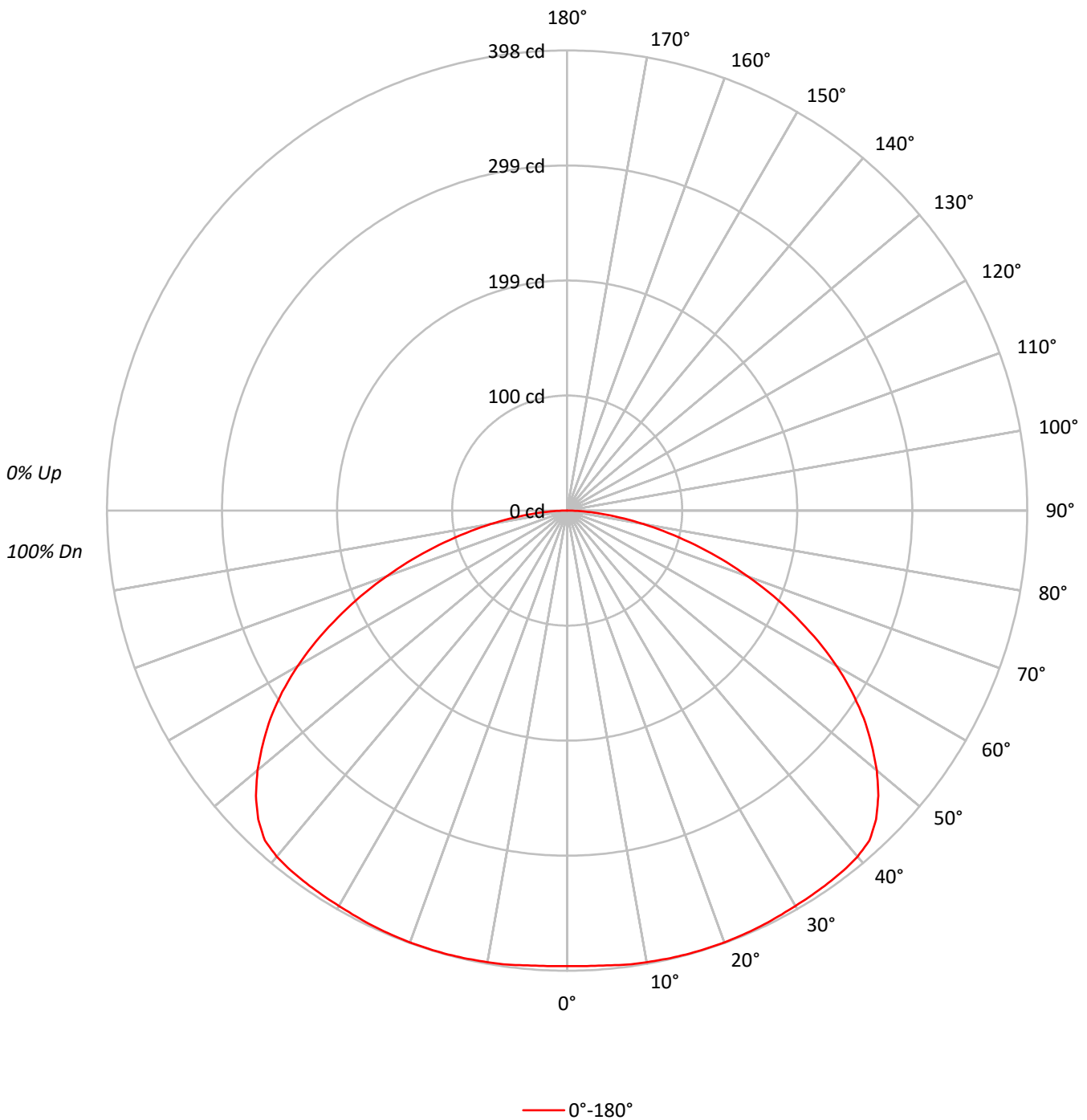
Lumens per Lamp: N/A
Luminaire Lumens: 1519.4 lumens
Efficiency: N/A
Efficacy: 40.5 lumens/watt
Spacing Criteria (0/90/45): 1.53 / 1.53 / 1.64
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 37.5
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

TEST NUMBER: P866896

CATALOG NUMBER: PRLX-2001-L-940-48L-G-X-X-BLAK-X

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	108	103	98	94	105	101	97	93	96	93	90		92	90	87		89	87	84	82
2	98	89	81	75	95	87	80	74	83	78	73		80	75	71		77	73	69	67
3	88	77	68	62	86	75	67	61	72	66	60		70	64	59		67	62	58	55
4	80	68	58	51	78	66	58	51	64	56	50		61	55	49		59	53	49	46
5	73	60	50	43	71	59	50	43	57	49	43		55	48	42		53	47	42	39
6	68	54	44	37	66	53	44	37	51	43	37		49	42	36		47	41	36	34
7	62	48	39	33	61	47	39	32	46	38	32		44	37	32		43	37	32	30
8	58	44	35	29	56	43	35	29	42	34	28		40	33	28		39	33	28	26
9	54	40	31	26	52	39	31	25	38	31	25		37	30	25		36	30	25	23
10	50	37	28	23	49	36	28	23	35	28	23		34	27	23		33	27	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2153
5°	2167
10°	2202
15°	2250
20°	2313
25°	2392
30°	2492
35°	2625
40°	2788
45°	2922
50°	2973
55°	2985
60°	2946
65°	2830
70°	2652
75°	2416
80°	2109
85°	1656

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 55°
 Luminance: 2985 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.8	2.5
10°-20°	112.6	7.4
20°-30°	183.4	12.1
30°-40°	247.0	16.3
40°-50°	290.0	19.1
50°-60°	279.0	18.4
60°-70°	216.4	14.2
70°-80°	121.4	8.0
80°-90°	31.8	2.1
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°	333.8	22.0
0°-40°	580.8	38.2
0°-60°	1149.8	75.7
0°-90°	1519.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1519.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	394	
5°	395	38
15°	398	113
25°	397	183
35°	393	247
45°	378	290
55°	313	279
65°	219	216
75°	114	121
85°	26	32
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	393.9
2.5°	394.3
5°	394.8
7.5°	396.1
10°	396.6
12.5°	397.1
15°	397.5
17.5°	397.5
20°	397.5
22.5°	397.1
25°	396.6
27.5°	395.7
30°	394.8
32.5°	394.3
35°	393.4
37.5°	392.5
40°	390.7
42.5°	387.0
45°	377.9
47.5°	365.1
50°	349.6
52.5°	331.9
55°	313.2
57.5°	292.2
60°	269.4
62.5°	244.8
65°	218.8
67.5°	193.3
70°	165.9
72.5°	140.4
75°	114.4
77.5°	89.3
80°	67.0
82.5°	45.6
85°	26.4
87.5°	11.4
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	16.38	18.10	16.74	18.41	18.73	16.38	18.10	16.74	18.41	18.73
	3H	18.20	19.77	18.58	20.09	20.45	18.20	19.77	18.58	20.09	20.45
	4H	18.86	20.33	19.26	20.68	21.05	18.86	20.33	19.26	20.68	21.05
	6H	19.32	20.69	19.73	21.05	21.44	19.32	20.69	19.73	21.05	21.44
	8H	19.46	20.77	19.89	21.16	21.56	19.46	20.77	19.89	21.16	21.56
	12H	19.55	20.81	19.98	21.19	21.62	19.55	20.81	19.98	21.19	21.62
4H	2H	17.04	18.51	17.44	18.86	19.23	17.04	18.51	17.44	18.86	19.23
	3H	19.07	20.32	19.48	20.71	21.11	19.07	20.32	19.48	20.71	21.11
	4H	19.85	20.98	20.28	21.39	21.82	19.85	20.98	20.28	21.39	21.82
	6H	20.44	21.42	20.89	21.86	22.32	20.44	21.42	20.89	21.86	22.32
	8H	20.63	21.55	21.08	21.99	22.45	20.63	21.55	21.08	21.99	22.45
	12H	20.75	21.59	21.23	22.06	22.53	20.75	21.59	21.23	22.06	22.53
8H	4H	20.17	21.09	20.62	21.53	21.99	20.17	21.09	20.62	21.53	21.99
	6H	20.86	21.63	21.36	22.12	22.59	20.86	21.63	21.36	22.12	22.59
	8H	21.12	21.81	21.62	22.31	22.79	21.12	21.81	21.62	22.31	22.79
	12H	21.31	21.92	21.81	22.41	22.97	21.31	21.92	21.81	22.41	22.97
12H	4H	20.20	21.03	20.68	21.51	21.98	20.20	21.03	20.68	21.51	21.98
	6H	20.92	21.61	21.42	22.11	22.60	20.92	21.61	21.42	22.11	22.60
	8H	21.22	21.84	21.73	22.33	22.88	21.22	21.84	21.73	22.33	22.88