

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: P865540

Luminaire Tested: PRLX-2001-S-940-10L-G-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865540
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-S-940-10L-G-U-S-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 2
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

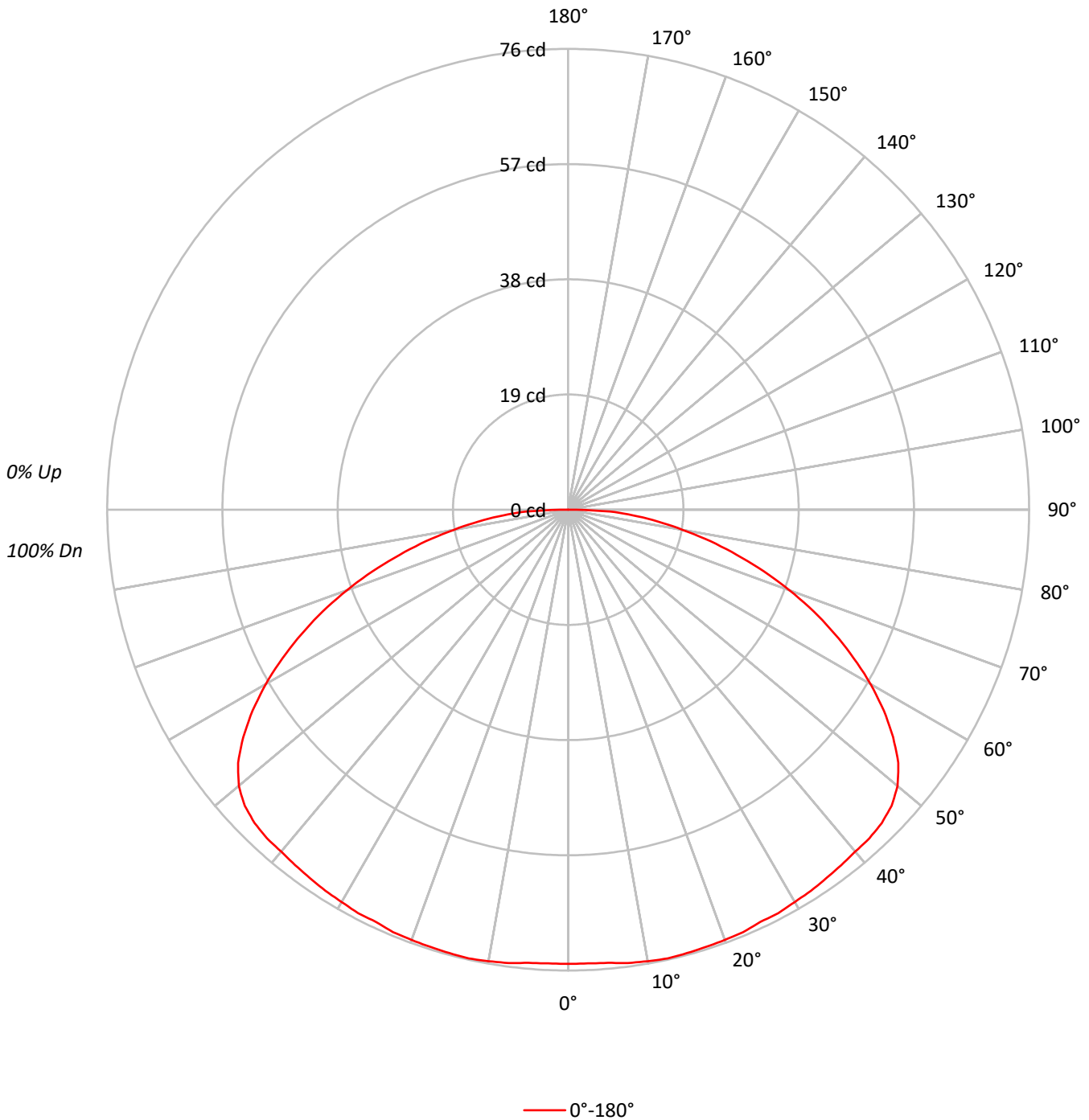
Lumens per Lamp: N/A
Luminaire Lumens: 314.4 lumens
Efficiency: N/A
Efficacy: 29.9 lumens/watt
Spacing Criteria (0/90/45): 1.51 / 1.51 / 1.69
Luminous Opening: Circular (Dia: 0.92' x H: 0')
CIE Type: Direct

Input Watts (W): 10.5
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: 0.5 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	107	102	97	92	104	99	95	91	95	91	88		91	88	85		87	85	82	80
2	96	87	79	73	93	85	78	72	81	75	70		78	73	68		75	71	67	64
3	87	75	66	59	84	73	65	58	70	63	57		67	61	56		65	60	55	53
4	79	66	56	49	76	64	55	48	62	54	47		59	52	47		57	51	46	44
5	72	58	48	41	70	57	48	41	55	46	40		53	45	40		51	44	39	37
6	66	52	42	35	64	51	42	35	49	41	35		47	40	34		45	39	34	32
7	61	46	37	30	59	46	37	30	44	36	30		43	35	30		41	35	30	27
8	57	42	33	27	55	41	33	27	40	32	27		39	32	26		37	31	26	24
9	53	38	30	24	51	38	29	24	37	29	24		35	28	23		34	28	23	21
10	49	35	27	21	48	35	27	21	34	26	21		33	26	21		32	25	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1222
5°	1228
10°	1252
15°	1278
20°	1310
25°	1350
30°	1407
35°	1477
40°	1567
45°	1686
50°	1799
55°	1860
60°	1879
65°	1872
70°	1850
75°	1815
80°	1803
85°	2002

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 87.5°
 Luminance: 2580 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.2	2.3
10°-20°	21.4	6.8
20°-30°	34.8	11.1
30°-40°	46.6	14.8
40°-50°	56.3	17.9
50°-60°	58.2	18.5
60°-70°	47.9	15.2
70°-80°	30.5	9.7
80°-90°	11.5	3.6
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°	63.4	20.2
0°-40°	110.0	35.0
0°-60°	224.5	71.4
0°-90°	314.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	314.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	75	
5°	75	7
15°	76	21
25°	75	35
35°	74	47
45°	73	56
55°	65	58
65°	48	48
75°	29	30
85°	11	11
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	74.9
2.5°	74.9
5°	75.0
7.5°	75.4
10°	75.6
12.5°	75.8
15°	75.7
17.5°	75.6
20°	75.5
22.5°	75.4
25°	75.0
27.5°	75.0
30°	74.7
32.5°	74.5
35°	74.2
37.5°	73.9
40°	73.6
42.5°	73.5
45°	73.1
47.5°	72.3
50°	70.9
52.5°	68.6
55°	65.4
57.5°	61.7
60°	57.6
62.5°	53.1
65°	48.5
67.5°	43.8
70°	38.8
72.5°	33.8
75°	28.8
77.5°	24.0
80°	19.2
82.5°	14.9
85°	10.7
87.5°	6.9
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	14.79	16.56	15.15	16.87	17.18	14.79	16.56	15.15	16.87	17.18
	3H	16.87	18.48	17.24	18.80	19.16	16.87	18.48	17.24	18.80	19.16
	4H	17.70	19.22	18.09	19.57	19.94	17.70	19.22	18.09	19.57	19.94
	6H	18.39	19.81	18.80	20.17	20.56	18.39	19.81	18.80	20.17	20.56
	8H	18.66	20.03	19.08	20.41	20.81	18.66	20.03	19.08	20.41	20.81
	12H	18.90	20.21	19.33	20.59	21.02	18.90	20.21	19.33	20.59	21.02
4H	2H	15.51	17.04	15.91	17.39	17.76	15.51	17.04	15.91	17.39	17.76
	3H	17.82	19.12	18.23	19.51	19.91	17.82	19.12	18.23	19.51	19.91
	4H	18.79	19.98	19.22	20.39	20.82	18.79	19.98	19.22	20.39	20.82
	6H	19.64	20.68	20.09	21.12	21.56	19.64	20.68	20.09	21.12	21.56
	8H	19.98	20.96	20.44	21.40	21.86	19.98	20.96	20.44	21.40	21.86
	12H	20.29	21.18	20.77	21.65	22.12	20.29	21.18	20.77	21.65	22.12
8H	4H	19.20	20.18	19.66	20.62	21.08	19.20	20.18	19.66	20.62	21.08
	6H	20.20	21.03	20.69	21.51	21.98	20.20	21.03	20.69	21.51	21.98
	8H	20.65	21.39	21.16	21.89	22.38	20.65	21.39	21.16	21.89	22.38
	12H	21.09	21.75	21.59	22.23	22.79	21.09	21.75	21.59	22.23	22.79
12H	4H	19.27	20.16	19.75	20.63	21.09	19.27	20.16	19.75	20.63	21.09
	6H	20.31	21.05	20.81	21.55	22.03	20.31	21.05	20.81	21.55	22.03
	8H	20.84	21.50	21.34	21.98	22.54	20.84	21.50	21.34	21.98	22.54