

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: P866099

Luminaire Tested: PRLX-2001-M-940-15L-L-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866099
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-46)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-M-940-15L-L-U-S-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS,
TAPERED DRUM WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 2
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

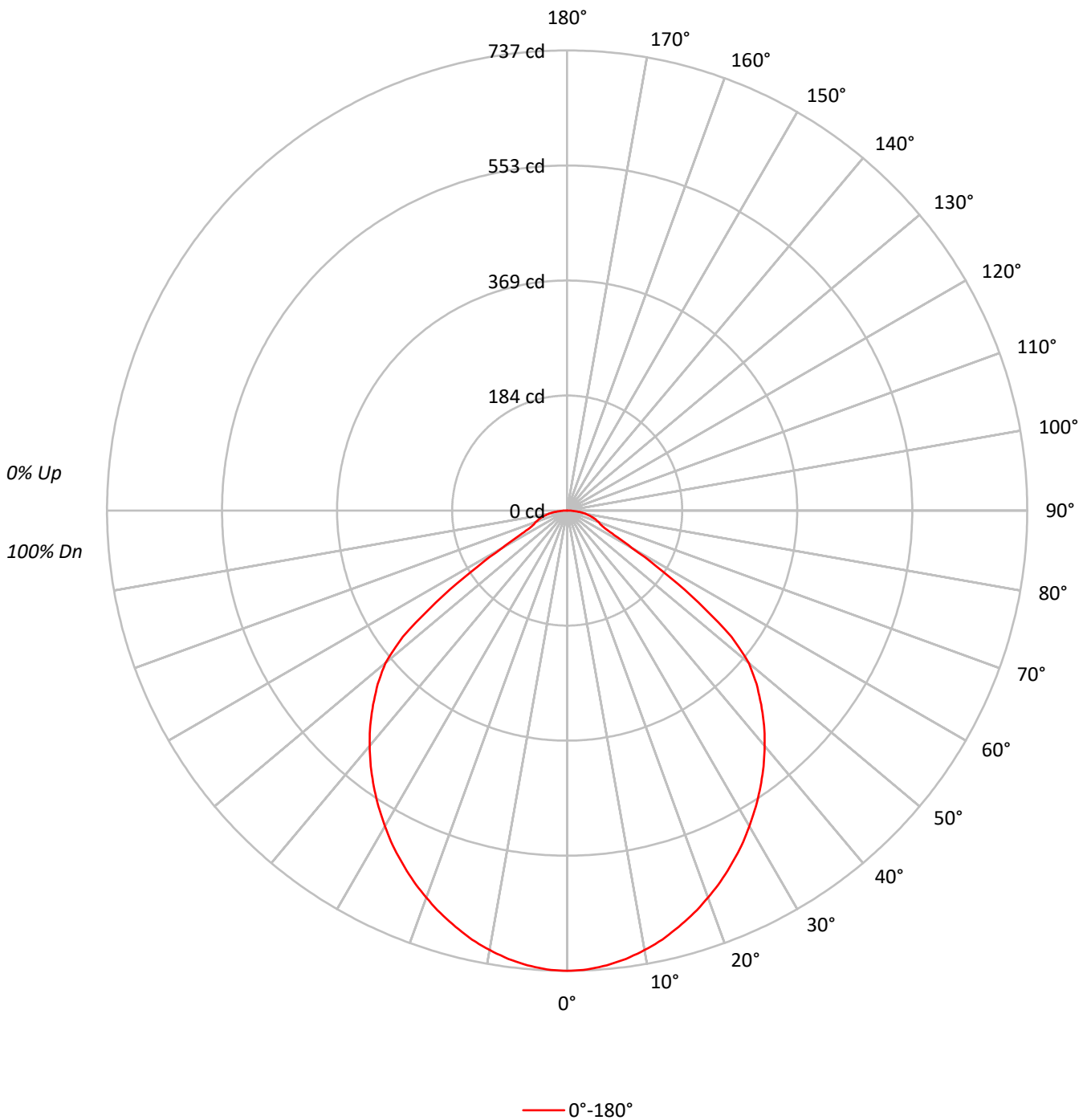
Lumens per Lamp: N/A
Luminaire Lumens: 1587.6 lumens
Efficiency: N/A
Efficacy: 113.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.31
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

Input Watts (W): 14
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: 0.333 HR
Operation Time: 3 HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P866099

CATALOG NUMBER: PRLX-2001-M-940-15L-L-U-S-X-X-WHHR-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	111	107	103	100	108	104	101	98	100	98	95	96	94	92	93	91	90	88
2	102	95	89	84	100	93	88	83	90	85	82	87	83	80	84	81	78	76
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66
4	87	77	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58
5	81	69	61	55	79	68	60	55	66	59	54	64	58	54	62	57	53	51
6	75	63	55	49	73	62	54	48	60	53	48	58	52	48	57	52	47	45
7	70	57	49	43	68	56	49	43	55	48	43	54	47	43	52	47	42	41
8	65	52	44	39	64	52	44	39	50	44	39	49	43	38	48	42	38	37
9	61	48	41	35	59	48	40	35	47	40	35	46	39	35	45	39	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	6255
5°	6228
10°	6159
15°	6063
20°	5957
25°	5841
30°	5720
35°	5592
40°	5450
45°	5273
50°	5017
55°	3799
60°	2040
65°	1315
70°	1325
75°	1397
80°	1451
85°	1470

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5273 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.3	4.4
10°-20°	194.6	12.3
20°-30°	287.5	18.1
30°-40°	337.5	21.3
40°-50°	338.4	21.3
50°-60°	226.6	14.3
60°-70°	72.8	4.6
70°-80°	44.5	2.8
80°-90°	16.5	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°	551.3	34.7
0°-40°	888.8	56.0
0°-60°	1453.8	91.6
0°-90°	1587.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1587.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	737	
5°	731	69
15°	690	195
25°	624	287
35°	540	338
45°	439	338
55°	257	227
65°	66	73
75°	43	44
85°	15	16
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	737.1
2.5°	735.8
5°	731.1
7.5°	724.2
10°	714.7
12.5°	703.9
15°	690.1
17.5°	675.9
20°	659.6
22.5°	642.8
25°	623.8
27.5°	604.8
30°	583.7
32.5°	562.2
35°	539.8
37.5°	516.5
40°	492.0
42.5°	467.0
45°	439.4
47.5°	411.4
50°	380.0
52.5°	331.7
55°	256.8
57.5°	182.2
60°	120.2
62.5°	84.9
65°	65.5
67.5°	57.7
70°	53.4
72.5°	48.2
75°	42.6
77.5°	36.2
80°	29.7
82.5°	22.8
85°	15.1
87.5°	7.8
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	14.65	16.12	15.01	16.44	16.75	14.65	16.12	15.01	16.44	16.75
	3H	15.13	16.44	15.51	16.77	17.13	15.13	16.44	15.51	16.77	17.13
	4H	15.45	16.67	15.85	17.02	17.40	15.45	16.67	15.85	17.02	17.40
	6H	15.78	16.90	16.19	17.27	17.66	15.78	16.90	16.19	17.27	17.66
	8H	15.91	16.99	16.34	17.38	17.78	15.91	16.99	16.34	17.38	17.78
	12H	16.02	17.05	16.45	17.43	17.86	16.02	17.05	16.45	17.43	17.86
4H	2H	14.68	15.91	15.08	16.26	16.64	14.68	15.91	15.08	16.26	16.64
	3H	15.39	16.39	15.80	16.79	17.20	15.39	16.39	15.80	16.79	17.20
	4H	15.87	16.76	16.30	17.18	17.62	15.87	16.76	16.30	17.18	17.62
	6H	16.36	17.14	16.82	17.59	18.05	16.36	17.14	16.82	17.59	18.05
	8H	16.57	17.30	17.04	17.75	18.21	16.57	17.30	17.04	17.75	18.21
	12H	16.75	17.40	17.23	17.88	18.35	16.75	17.40	17.23	17.88	18.35
8H	4H	16.03	16.76	16.49	17.20	17.67	16.03	16.76	16.49	17.20	17.67
	6H	16.66	17.27	17.16	17.76	18.24	16.66	17.27	17.16	17.76	18.24
	8H	16.96	17.51	17.47	18.02	18.51	16.96	17.51	17.47	18.02	18.51
	12H	17.22	17.71	17.73	18.21	18.77	17.22	17.71	17.73	18.21	18.77
12H	4H	16.04	16.69	16.53	17.17	17.65	16.04	16.69	16.53	17.17	17.65
	6H	16.70	17.25	17.22	17.76	18.25	16.70	17.25	17.22	17.76	18.25
	8H	17.06	17.55	17.57	18.05	18.61	17.06	17.55	17.57	18.05	18.61