

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: P866059

Luminaire Tested: PRLX-2001-M-935-45L-L-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866059
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-935-45L-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 5
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

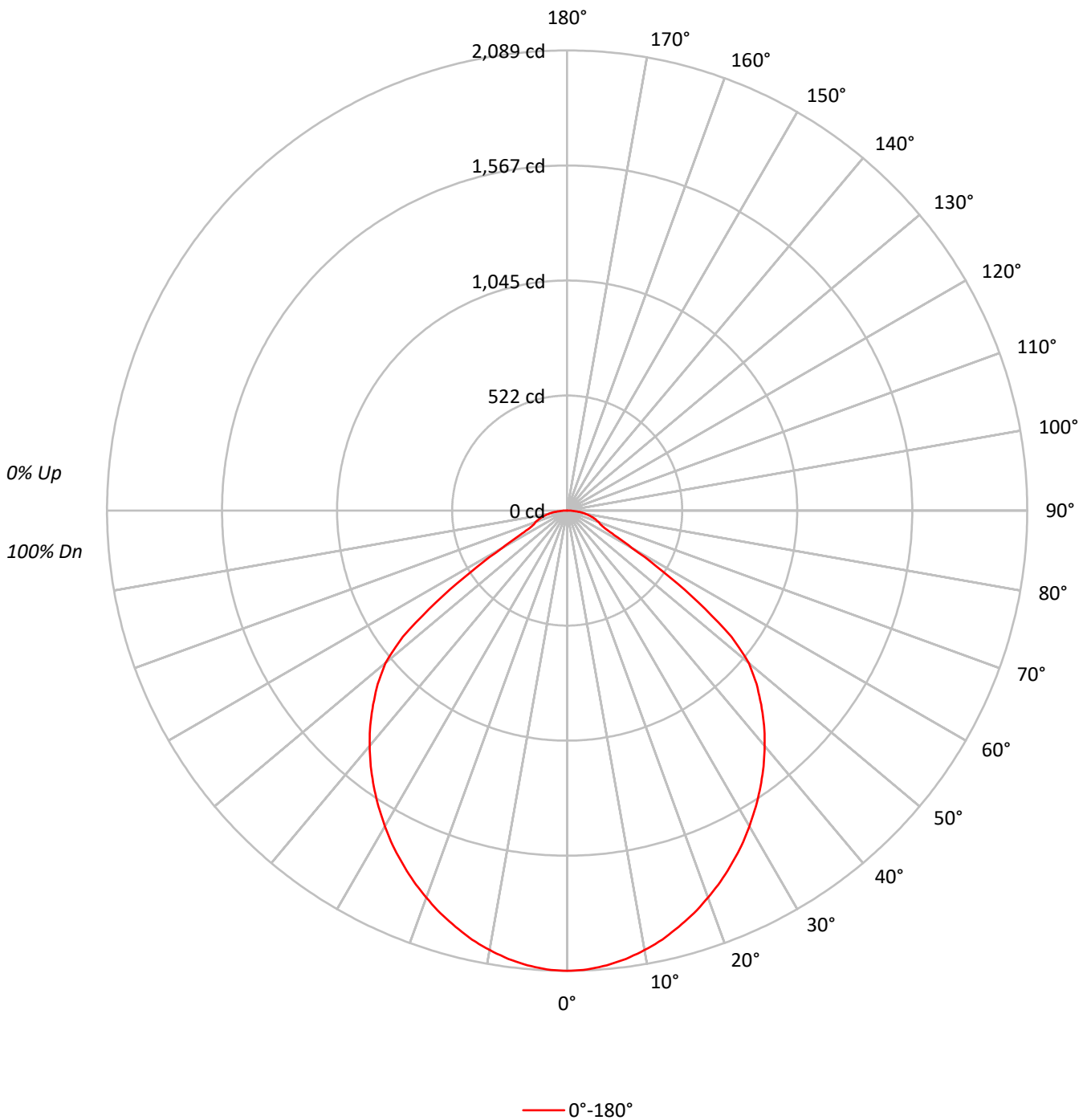
Lumens per Lamp: N/A
Luminaire Lumens: 4500.0 lumens
Efficiency: N/A
Efficacy: 116.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.31
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

Input Watts (W): 38.8
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	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°	17730
5°	17652
10°	17456
15°	17186
20°	16883
25°	16556
30°	16213
35°	15850
40°	15448
45°	14947
50°	14218
55°	10768
60°	5782
65°	3727
70°	3756
75°	3964
80°	4120
85°	4158

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 14947 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.3	4.4
10°-20°	551.6	12.3
20°-30°	814.8	18.1
30°-40°	956.7	21.3
40°-50°	959.1	21.3
50°-60°	642.3	14.3
60°-70°	206.3	4.6
70°-80°	126.2	2.8
80°-90°	46.7	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°	1562.7	34.7
0°-40°	2519.4	56.0
0°-60°	4120.8	91.6
0°-90°	4500.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4500.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2089	
5°	2072	196
15°	1956	552
25°	1768	815
35°	1530	957
45°	1246	959
55°	728	642
65°	186	206
75°	121	126
85°	43	47
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	2089.3
2.5°	2085.6
5°	2072.2
7.5°	2052.7
10°	2025.8
12.5°	1995.3
15°	1956.2
17.5°	1915.9
20°	1869.5
22.5°	1821.9
25°	1768.2
27.5°	1714.4
30°	1654.6
32.5°	1593.5
35°	1530.0
37.5°	1464.1
40°	1394.5
42.5°	1323.7
45°	1245.5
47.5°	1166.1
50°	1077.0
52.5°	940.2
55°	727.8
57.5°	516.5
60°	340.7
62.5°	240.6
65°	185.6
67.5°	163.6
70°	151.4
72.5°	136.8
75°	120.9
77.5°	102.6
80°	84.3
82.5°	64.7
85°	42.7
87.5°	22.0
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	18.27	19.74	18.63	20.06	20.37	18.27	19.74	18.63	20.06	20.37
	3H	18.75	20.06	19.13	20.39	20.75	18.75	20.06	19.13	20.39	20.75
	4H	19.07	20.29	19.47	20.64	21.02	19.07	20.29	19.47	20.64	21.02
	6H	19.40	20.53	19.81	20.89	21.29	19.40	20.53	19.81	20.89	21.29
	8H	19.54	20.61	19.96	21.00	21.40	19.54	20.61	19.96	21.00	21.40
	12H	19.64	20.67	20.07	21.05	21.48	19.64	20.67	20.07	21.05	21.48
4H	2H	18.30	19.53	18.70	19.88	20.26	18.30	19.53	18.70	19.88	20.26
	3H	19.01	20.01	19.42	20.42	20.82	19.01	20.01	19.42	20.42	20.82
	4H	19.49	20.38	19.92	20.80	21.24	19.49	20.38	19.92	20.80	21.24
	6H	19.99	20.76	20.45	21.21	21.67	19.99	20.76	20.45	21.21	21.67
	8H	20.19	20.92	20.66	21.37	21.84	20.19	20.92	20.66	21.37	21.84
	12H	20.37	21.02	20.85	21.50	21.97	20.37	21.02	20.85	21.50	21.97
8H	4H	19.65	20.38	20.12	20.82	21.29	19.65	20.38	20.12	20.82	21.29
	6H	20.28	20.89	20.78	21.38	21.86	20.28	20.89	20.78	21.38	21.86
	8H	20.58	21.13	21.10	21.64	22.13	20.58	21.13	21.10	21.64	22.13
	12H	20.85	21.34	21.36	21.83	22.40	20.85	21.34	21.36	21.83	22.40
12H	4H	19.67	20.32	20.15	20.80	21.27	19.67	20.32	20.15	20.80	21.27
	6H	20.33	20.88	20.84	21.39	21.88	20.33	20.88	20.84	21.39	21.88
	8H	20.69	21.18	21.20	21.67	22.24	20.69	21.18	21.20	21.67	22.24