

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: P866019

Luminaire Tested: PRLX-2001-M-930-75L-L-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866019
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-930-75L-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 8
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

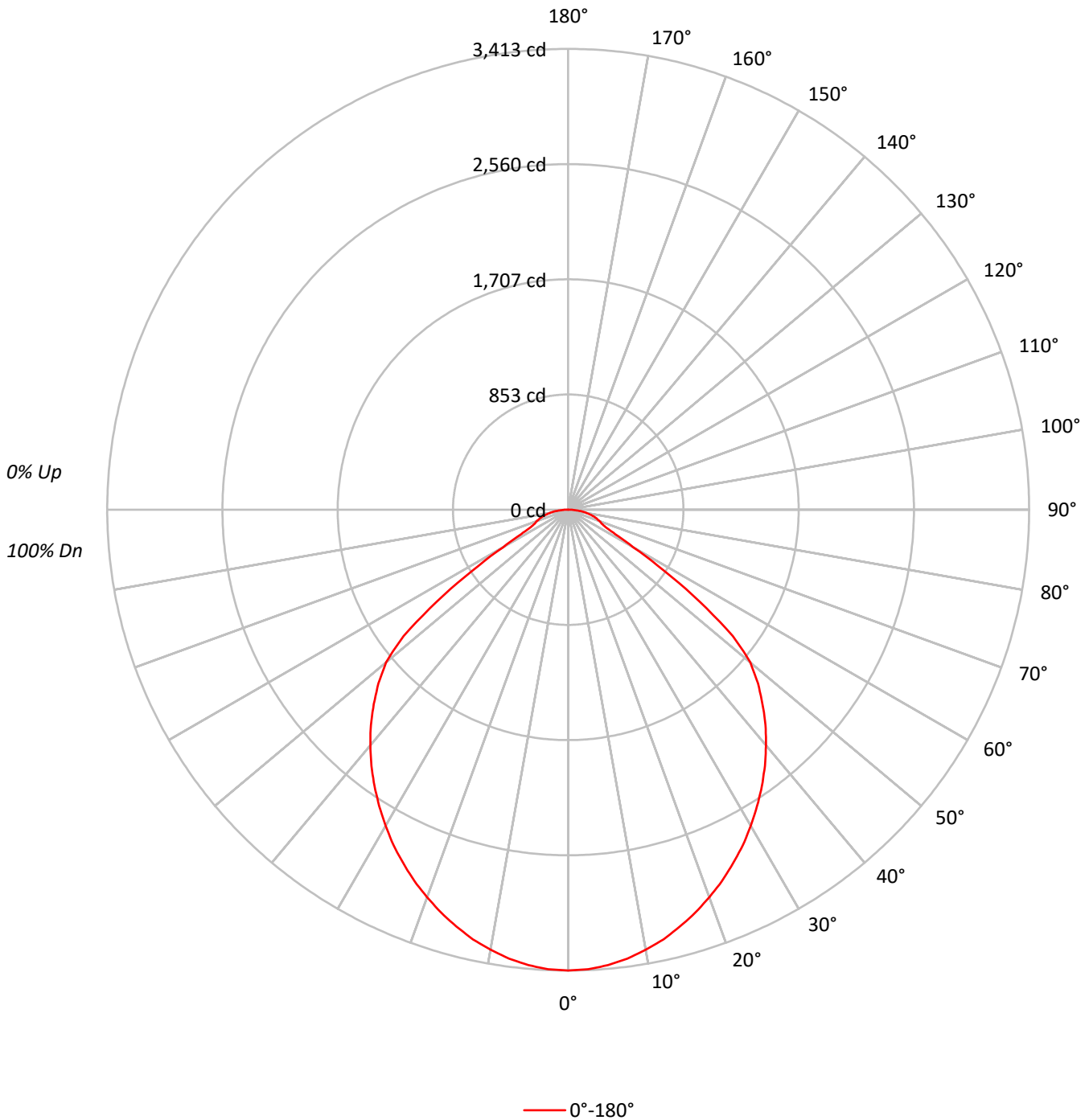
Lumens per Lamp: N/A
Luminaire Lumens: 7351.1 lumens
Efficiency: N/A
Efficacy: 105.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.31
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

Input Watts (W): 69.7
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

TEST NUMBER: P866019

CATALOG NUMBER: PRLX-2001-M-930-75L-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°	28963
5°	28836
10°	28516
15°	28075
20°	27580
25°	27045
30°	26485
35°	25893
40°	25235
45°	24417
50°	23227
55°	17590
60°	9445
65°	6088
70°	6136
75°	6476
80°	6724
85°	6796

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 24417 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	320.8	4.4
10°-20°	901.0	12.3
20°-30°	1331.0	18.1
30°-40°	1562.9	21.3
40°-50°	1566.8	21.3
50°-60°	1049.2	14.3
60°-70°	337.0	4.6
70°-80°	206.1	2.8
80°-90°	76.2	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°	2552.8	34.7
0°-40°	4115.7	56.0
0°-60°	6731.7	91.6
0°-90°	7351.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7351.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3413	
5°	3385	321
15°	3196	901
25°	2888	1331
35°	2499	1563
45°	2035	1567
55°	1189	1049
65°	303	337
75°	198	206
85°	70	76
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	3413.0
2.5°	3407.0
5°	3385.1
7.5°	3353.2
10°	3309.3
12.5°	3259.4
15°	3195.6
17.5°	3129.8
20°	3054.0
22.5°	2976.2
25°	2888.4
27.5°	2800.6
30°	2702.9
32.5°	2603.1
35°	2499.4
37.5°	2391.7
40°	2278.0
42.5°	2162.3
45°	2034.6
47.5°	1905.0
50°	1759.4
52.5°	1536.0
55°	1188.9
57.5°	843.8
60°	556.5
62.5°	393.0
65°	303.2
67.5°	267.3
70°	247.3
72.5°	223.4
75°	197.5
77.5°	167.6
80°	137.6
82.5°	105.7
85°	69.8
87.5°	35.9
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	19.97	21.45	20.34	21.76	22.08	19.97	21.45	20.34	21.76	22.08
	3H	20.46	21.77	20.83	22.09	22.46	20.46	21.77	20.83	22.09	22.46
	4H	20.78	22.00	21.18	22.35	22.73	20.78	22.00	21.18	22.35	22.73
	6H	21.10	22.23	21.52	22.60	22.99	21.10	22.23	21.52	22.60	22.99
	8H	21.24	22.31	21.67	22.70	23.11	21.24	22.31	21.67	22.70	23.11
	12H	21.35	22.37	21.78	22.76	23.18	21.35	22.37	21.78	22.76	23.18
4H	2H	20.01	21.23	20.41	21.58	21.96	20.01	21.23	20.41	21.58	21.96
	3H	20.72	21.72	21.13	22.12	22.52	20.72	21.72	21.13	22.12	22.52
	4H	21.19	22.09	21.63	22.51	22.95	21.19	22.09	21.63	22.51	22.95
	6H	21.69	22.47	22.15	22.91	23.38	21.69	22.47	22.15	22.91	23.38
	8H	21.90	22.63	22.37	23.07	23.54	21.90	22.63	22.37	23.07	23.54
	12H	22.07	22.72	22.56	23.20	23.68	22.07	22.72	22.56	23.20	23.68
8H	4H	21.36	22.08	21.82	22.53	23.00	21.36	22.08	21.82	22.53	23.00
	6H	21.99	22.59	22.49	23.09	23.57	21.99	22.59	22.49	23.09	23.57
	8H	22.28	22.83	22.80	23.34	23.83	22.28	22.83	22.80	23.34	23.83
	12H	22.55	23.04	23.06	23.53	24.10	22.55	23.04	23.06	23.53	24.10
12H	4H	21.37	22.02	21.85	22.50	22.97	21.37	22.02	21.85	22.50	22.97
	6H	22.03	22.58	22.55	23.09	23.58	22.03	22.58	22.55	23.09	23.58
	8H	22.39	22.88	22.90	23.37	23.94	22.39	22.88	22.90	23.37	23.94