

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: P866081

Luminaire Tested: PRLX-2001-M-935-75L-L-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866081
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-47)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-M-935-75L-L-U-S-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS,
TAPERED DRUM WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 8
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

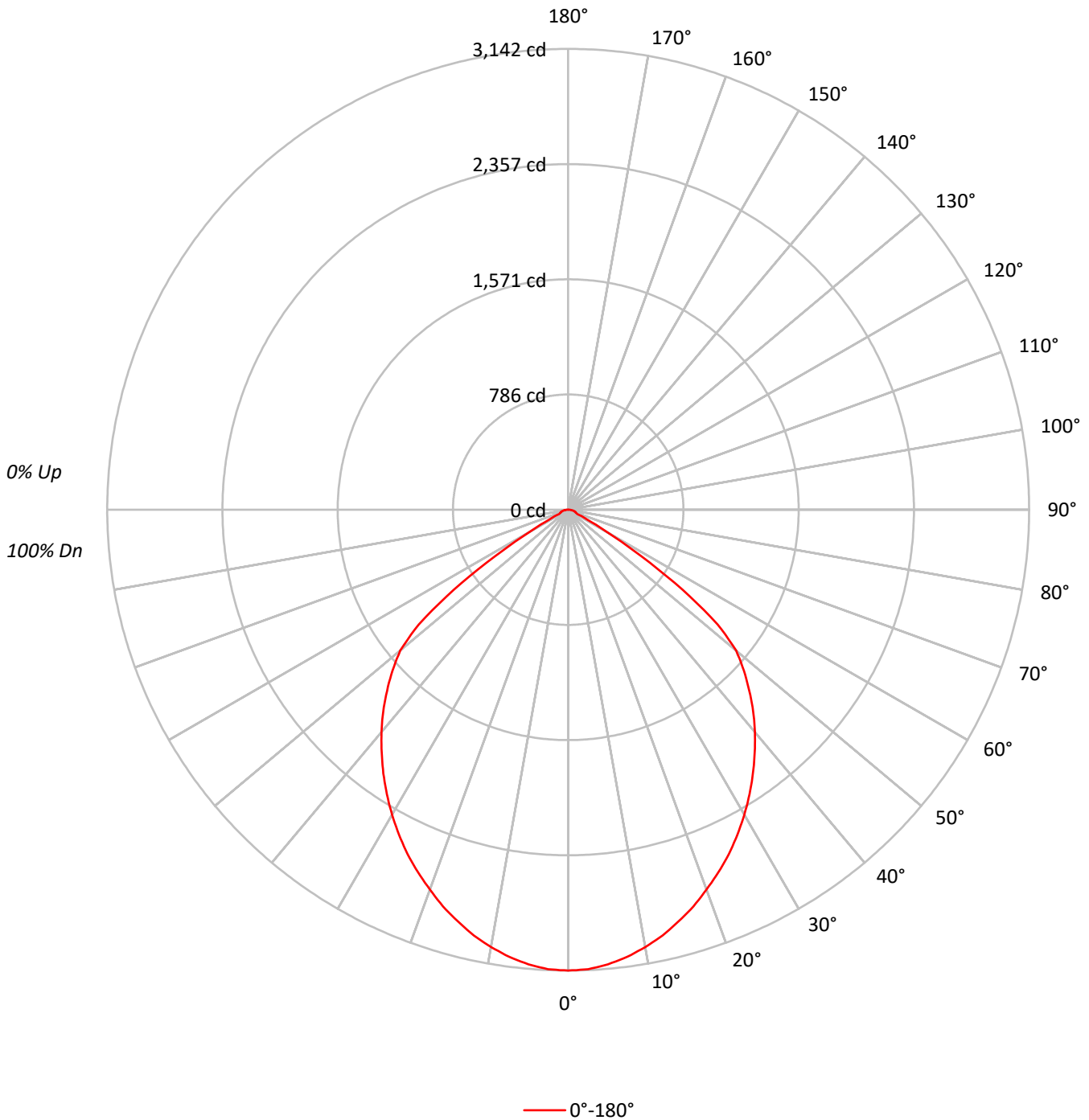
Lumens per Lamp: N/A
Luminaire Lumens: 6026.1 lumens
Efficiency: N/A
Efficacy: 86.5 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.15 / 1.27
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

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

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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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90				90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79				79
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72	70				70
4	89	79	72	66	87	78	71	66	76	70	65	74	68	64	71	67	64	62				62
5	83	72	64	59	81	71	64	58	69	63	58	67	61	57	65	60	57	55				55
6	77	65	58	52	75	65	57	52	63	56	51	61	56	51	60	55	51	49				49
7	72	60	52	47	70	59	52	47	58	51	46	56	50	46	55	50	46	44				44
8	67	55	47	42	66	54	47	42	53	46	42	52	46	42	51	45	41	40				40
9	63	51	43	38	62	50	43	38	49	42	38	48	42	38	47	42	38	36				36
10	59	47	40	35	58	46	39	35	45	39	35	45	39	35	44	38	34	33				33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	26666
5°	26508
10°	26095
15°	25532
20°	24885
25°	24258
30°	23532
35°	22748
40°	21936
45°	20956
50°	19721
55°	14092
60°	5249
65°	1390
70°	1362
75°	1469
80°	1593
85°	1587

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 20956 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.4	4.9
10°-20°	818.7	13.6
20°-30°	1192.0	19.8
30°-40°	1372.9	22.8
40°-50°	1345.0	22.3
50°-60°	825.9	13.7
60°-70°	112.4	1.9
70°-80°	47.0	0.8
80°-90°	17.7	0.3
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°	2305.1	38.3
0°-40°	3678.0	61.0
0°-60°	5848.9	97.1
0°-90°	6026.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6026.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3142	
5°	3112	294
15°	2906	819
25°	2591	1192
35°	2196	1373
45°	1746	1345
55°	952	826
65°	69	112
75°	45	47
85°	16	18
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	3142.3
2.5°	3136.2
5°	3111.8
7.5°	3075.1
10°	3028.3
12.5°	2973.4
15°	2906.2
17.5°	2837.0
20°	2755.6
22.5°	2676.2
25°	2590.8
27.5°	2497.2
30°	2401.5
32.5°	2299.7
35°	2195.9
37.5°	2088.1
40°	1980.2
42.5°	1866.3
45°	1746.2
47.5°	1624.1
50°	1493.8
52.5°	1284.2
55°	952.5
57.5°	592.2
60°	309.3
62.5°	150.6
65°	69.2
67.5°	57.0
70°	54.9
72.5°	50.9
75°	44.8
77.5°	38.7
80°	32.6
82.5°	24.4
85°	16.3
87.5°	8.1
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	18.23	19.63	18.60	19.94	20.25	18.23	19.63	18.60	19.94	20.25
	3H	18.17	19.40	18.55	19.73	20.09	18.17	19.40	18.55	19.73	20.09
	4H	18.15	19.29	18.55	19.64	20.02	18.15	19.29	18.55	19.64	20.02
	6H	18.14	19.18	18.55	19.55	19.95	18.14	19.18	18.55	19.55	19.95
	8H	18.13	19.12	18.56	19.51	19.91	18.13	19.12	18.56	19.51	19.91
	12H	18.11	19.06	18.54	19.44	19.87	18.11	19.06	18.54	19.44	19.87
4H	2H	18.07	19.21	18.47	19.56	19.94	18.07	19.21	18.47	19.56	19.94
	3H	18.04	18.96	18.45	19.36	19.77	18.04	18.96	18.45	19.36	19.77
	4H	18.04	18.86	18.47	19.28	19.72	18.04	18.86	18.47	19.28	19.72
	6H	18.06	18.77	18.53	19.22	19.68	18.06	18.77	18.53	19.22	19.68
	8H	18.06	18.72	18.53	19.17	19.64	18.06	18.72	18.53	19.17	19.64
	12H	18.06	18.64	18.54	19.12	19.60	18.06	18.64	18.54	19.12	19.60
8H	4H	17.95	18.61	18.42	19.06	19.53	17.95	18.61	18.42	19.06	19.53
	6H	17.99	18.54	18.49	19.03	19.51	17.99	18.54	18.49	19.03	19.51
	8H	18.00	18.50	18.52	19.01	19.50	18.00	18.50	18.52	19.01	19.50
	12H	18.02	18.47	18.54	18.96	19.53	18.02	18.47	18.54	18.96	19.53
12H	4H	17.92	18.50	18.40	18.98	19.46	17.92	18.50	18.40	18.98	19.46
	6H	17.95	18.44	18.47	18.96	19.45	17.95	18.44	18.47	18.96	19.45
	8H	17.99	18.43	18.50	18.93	19.50	17.99	18.43	18.50	18.93	19.50