

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: P866111

Luminaire Tested: PRLX-2001-M-940-35L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866111
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-31)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2001-M-940-35L-G-U-S-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 4
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

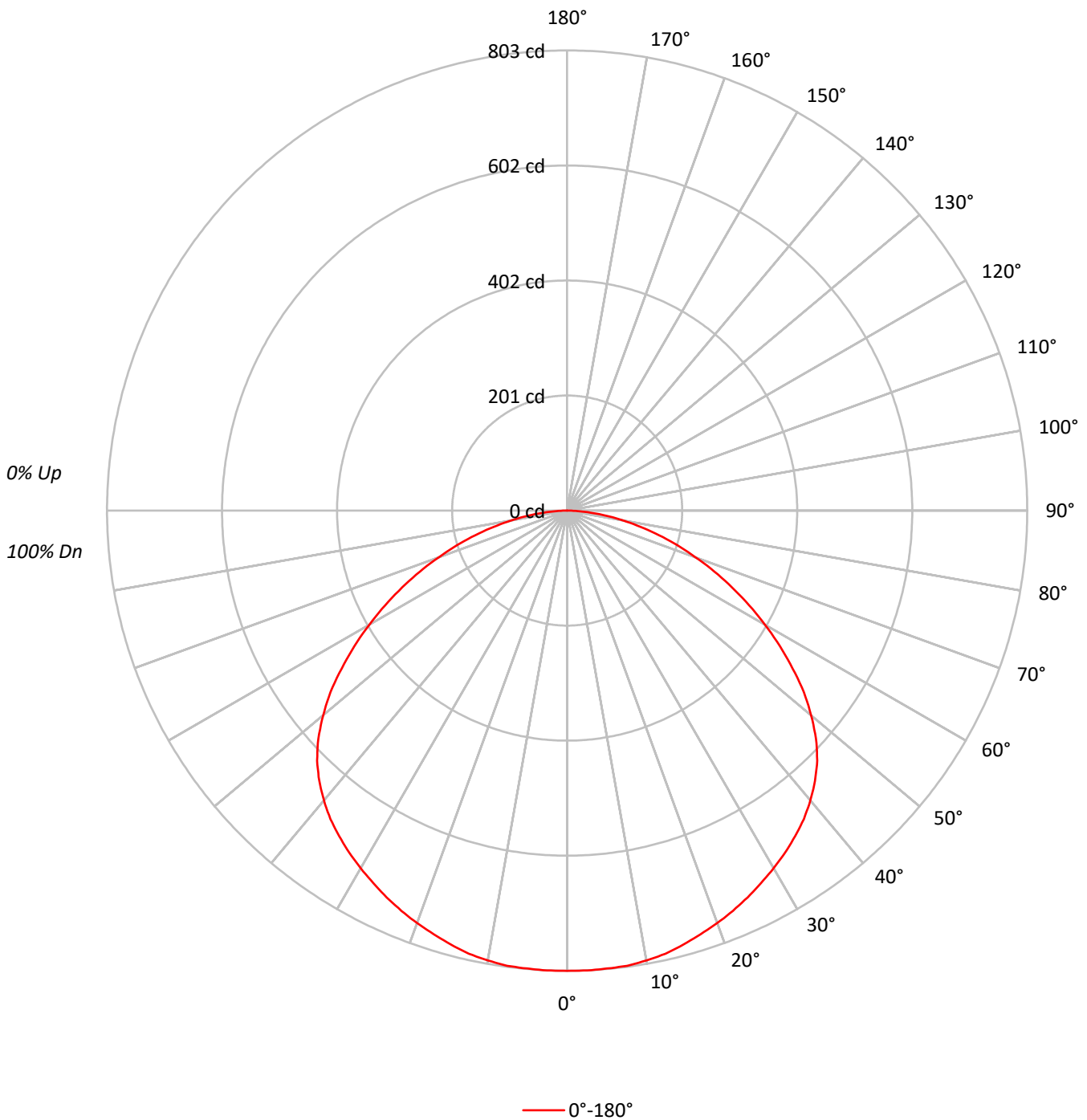
Lumens per Lamp: N/A
Luminaire Lumens: 2517.9 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.47
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

Input Watts (W): 30
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

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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	109	104	99	95	106	101	97	94	97	94	91		93	91	88		90	88	86	83
2	99	90	83	77	96	88	82	76	85	79	75		81	77	73		78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62		71	66	61		69	64	60	58
4	82	70	61	54	80	68	60	53	66	58	53		63	57	52		61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	39		51	44	39		50	44	39	37
7	64	50	41	35	62	50	41	35	48	40	35		47	40	35		45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31		43	36	31		41	35	31	29
9	56	42	34	28	54	41	33	28	40	33	28		39	32	28		38	32	27	26
10	52	39	31	25	51	38	30	25	37	30	25		36	30	25		35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	6816
5°	6833
10°	6869
15°	6889
20°	6917
25°	6975
30°	7062
35°	7185
40°	7316
45°	7407
50°	7339
55°	7109
60°	6774
65°	6377
70°	5910
75°	5439
80°	4814
85°	3914

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7407 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.4	3.0
10°-20°	221.5	8.8
20°-30°	343.9	13.7
30°-40°	434.4	17.3
40°-50°	474.2	18.8
50°-60°	429.1	17.0
60°-70°	314.8	12.5
70°-80°	175.8	7.0
80°-90°	47.9	1.9
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°	641.9	25.5
0°-40°	1076.2	42.7
0°-60°	1979.4	78.6
0°-90°	2517.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2517.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	803	
5°	802	76
15°	784	222
25°	745	344
35°	694	434
45°	617	474
55°	480	429
65°	318	315
75°	166	176
85°	40	48
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	803.2
2.5°	803.2
5°	802.2
7.5°	801.2
10°	797.1
12.5°	792.1
15°	784.1
17.5°	775.0
20°	766.0
22.5°	755.9
25°	744.9
27.5°	732.8
30°	720.7
32.5°	707.7
35°	693.6
37.5°	678.5
40°	660.4
42.5°	640.3
45°	617.2
47.5°	589.1
50°	555.9
52.5°	520.7
55°	480.5
57.5°	440.3
60°	399.1
62.5°	357.9
65°	317.6
67.5°	278.4
70°	238.2
72.5°	202.0
75°	165.9
77.5°	130.7
80°	98.5
82.5°	68.4
85°	40.2
87.5°	18.1
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	19.07	20.73	19.43	21.04	21.36	19.07	20.73	19.43	21.04	21.36
	3H	20.76	22.26	21.13	22.59	22.95	20.76	22.26	21.13	22.59	22.95
	4H	21.38	22.80	21.78	23.15	23.52	21.38	22.80	21.78	23.15	23.52
	6H	21.84	23.15	22.25	23.52	23.91	21.84	23.15	22.25	23.52	23.91
	8H	21.98	23.24	22.41	23.63	24.03	21.98	23.24	22.41	23.63	24.03
	12H	22.07	23.28	22.50	23.66	24.09	22.07	23.28	22.50	23.66	24.09
4H	2H	19.67	21.09	20.07	21.43	21.81	19.67	21.09	20.07	21.43	21.81
	3H	21.58	22.77	21.99	23.17	23.56	21.58	22.77	21.99	23.17	23.56
	4H	22.33	23.41	22.77	23.82	24.26	22.33	23.41	22.77	23.82	24.26
	6H	22.92	23.86	23.37	24.30	24.75	22.92	23.86	23.37	24.30	24.75
	8H	23.11	23.99	23.56	24.43	24.89	23.11	23.99	23.56	24.43	24.89
	12H	23.24	24.03	23.72	24.51	24.97	23.24	24.03	23.72	24.51	24.97
8H	4H	22.63	23.51	23.09	23.95	24.42	22.63	23.51	23.09	23.95	24.42
	6H	23.33	24.06	23.82	24.55	25.02	23.33	24.06	23.82	24.55	25.02
	8H	23.59	24.25	24.09	24.75	25.24	23.59	24.25	24.09	24.75	25.24
	12H	23.79	24.37	24.29	24.86	25.42	23.79	24.37	24.29	24.86	25.42
12H	4H	22.66	23.46	23.14	23.93	24.40	22.66	23.46	23.14	23.93	24.40
	6H	23.38	24.04	23.89	24.54	25.03	23.38	24.04	23.89	24.54	25.03
	8H	23.69	24.28	24.20	24.77	25.33	23.69	24.28	24.20	24.77	25.33