

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: P866368

Luminaire Tested: PRLX-2002-M-940-35L-L-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866368
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-53)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-M-940-35L-L-U-S-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 4
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

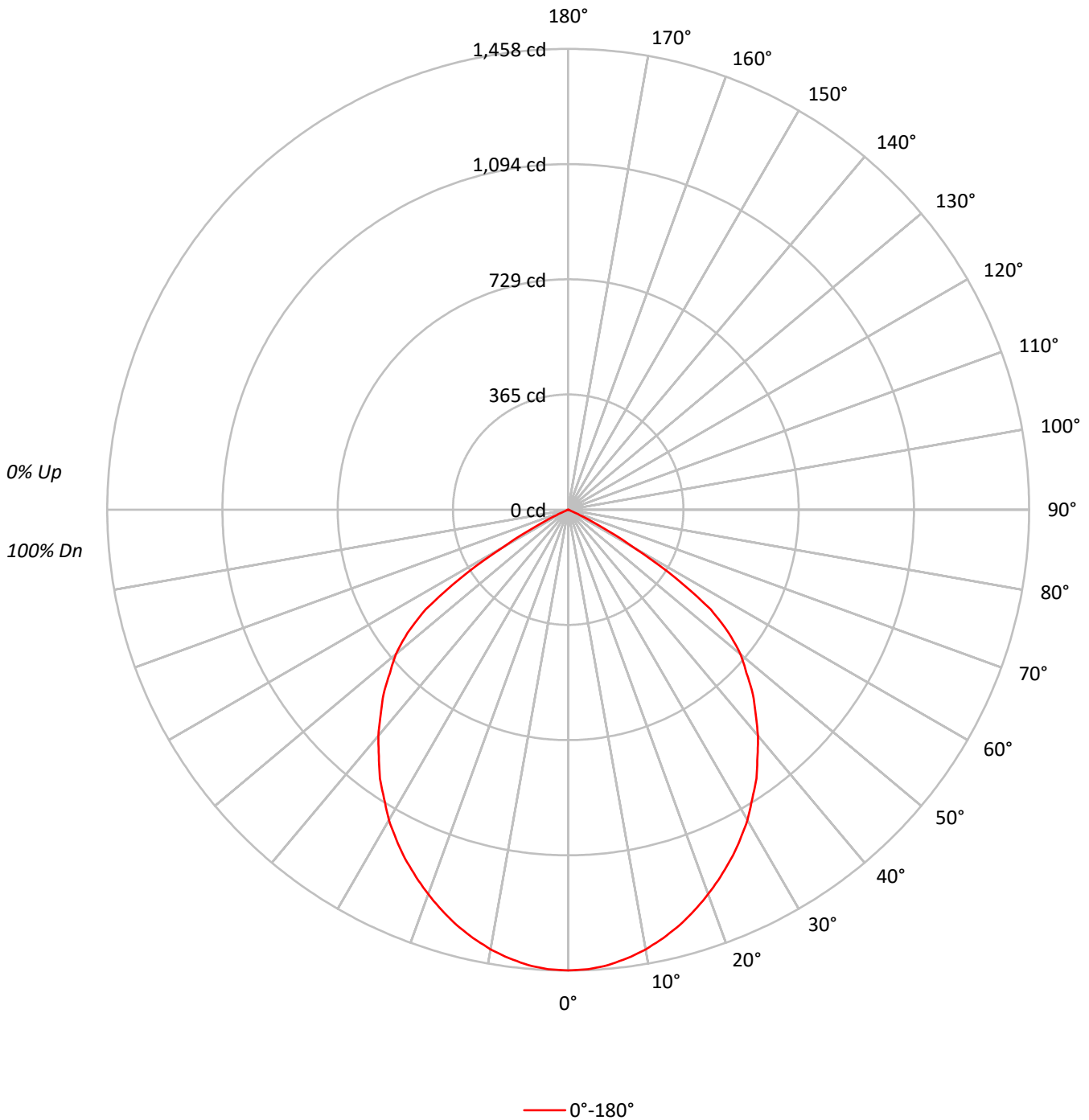
Lumens per Lamp: N/A
Luminaire Lumens: 2900.1 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.27
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 30
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: 0.5 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	112	108	105	102	109	106	103	100	102	99	97		98	96	94		95	93	92	90
2	104	97	92	88	101	96	91	87	92	88	85		89	86	83		86	83	81	79
3	96	88	81	76	94	86	80	75	83	78	74		81	76	73		78	75	71	69
4	89	79	72	66	87	78	71	66	75	69	65		73	68	64		71	67	63	61
5	83	71	64	58	81	70	63	58	68	62	57		67	61	57		65	60	56	54
6	77	65	57	51	75	64	57	51	62	56	51		61	55	50		59	54	50	48
7	71	59	51	46	70	58	51	46	57	50	45		56	50	45		54	49	45	43
8	67	54	47	41	65	54	46	41	52	46	41		51	45	41		50	45	41	39
9	62	50	43	37	61	49	42	37	48	42	37		47	41	37		46	41	37	35
10	59	46	39	34	57	46	39	34	45	38	34		44	38	34		43	38	34	32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	11596
5°	11552
10°	11409
15°	11211
20°	10961
25°	10703
30°	10417
35°	10085
40°	9698
45°	9297
50°	8809
55°	7627
60°	3903
65°	757
70°	70
75°	92
80°	92
85°	91

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 9297 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.0	4.7
10°-20°	383.2	13.2
20°-30°	561.2	19.3
30°-40°	647.6	22.3
40°-50°	634.9	21.9
50°-60°	461.4	15.9
60°-70°	70.7	2.4
70°-80°	2.8	0.1
80°-90°	1.4	0.0
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°	1081.3	37.3
0°-40°	1728.9	59.6
0°-60°	2825.2	97.4
0°-90°	2900.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2900.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1458	
5°	1446	137
15°	1361	383
25°	1219	561
35°	1038	648
45°	826	635
55°	550	461
65°	40	71
75°	3	3
85°	1	1
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1457.6
2.5°	1455.5
5°	1446.5
7.5°	1431.4
10°	1412.3
12.5°	1388.2
15°	1361.1
17.5°	1328.9
20°	1294.7
22.5°	1257.5
25°	1219.3
27.5°	1177.1
30°	1133.9
32.5°	1083.6
35°	1038.4
37.5°	983.1
40°	933.8
42.5°	877.5
45°	826.3
47.5°	765.0
50°	711.7
52.5°	640.3
55°	549.9
57.5°	406.1
60°	245.3
62.5°	116.6
65°	40.2
67.5°	10.1
70°	3.0
72.5°	3.0
75°	3.0
77.5°	2.0
80°	2.0
82.5°	2.0
85°	1.0
87.5°	1.0
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	17.95	19.36	18.31	19.68	19.99	17.95	19.36	18.31	19.68	19.99
	3H	17.83	19.07	18.21	19.40	19.77	17.83	19.07	18.21	19.40	19.77
	4H	17.77	18.92	18.17	19.27	19.65	17.77	18.92	18.17	19.27	19.65
	6H	17.69	18.75	18.11	19.12	19.51	17.69	18.75	18.11	19.12	19.51
	8H	17.65	18.65	18.08	19.04	19.45	17.65	18.65	18.08	19.04	19.45
	12H	17.61	18.57	18.05	18.95	19.38	17.61	18.57	18.05	18.95	19.38
4H	2H	17.79	18.94	18.19	19.29	19.67	17.79	18.94	18.19	19.29	19.67
	3H	17.67	18.60	18.08	19.00	19.40	17.67	18.60	18.08	19.00	19.40
	4H	17.59	18.41	18.03	18.83	19.27	17.59	18.41	18.03	18.83	19.27
	6H	17.52	18.22	17.98	18.67	19.13	17.52	18.22	17.98	18.67	19.13
	8H	17.46	18.12	17.93	18.57	19.04	17.46	18.12	17.93	18.57	19.04
	12H	17.42	18.00	17.90	18.48	18.96	17.42	18.00	17.90	18.48	18.96
8H	4H	17.46	18.12	17.93	18.57	19.04	17.46	18.12	17.93	18.57	19.04
	6H	17.36	17.90	17.86	18.40	18.88	17.36	17.90	17.86	18.40	18.88
	8H	17.29	17.79	17.81	18.30	18.79	17.29	17.79	17.81	18.30	18.79
	12H	17.24	17.69	17.75	18.18	18.75	17.24	17.69	17.75	18.18	18.75
12H	4H	17.41	18.00	17.90	18.48	18.96	17.41	18.00	17.90	18.48	18.96
	6H	17.29	17.79	17.81	18.30	18.79	17.29	17.79	17.81	18.30	18.79
	8H	17.24	17.69	17.75	18.18	18.75	17.24	17.69	17.75	18.18	18.75