

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: P866370

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866370
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-52)
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-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 4
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

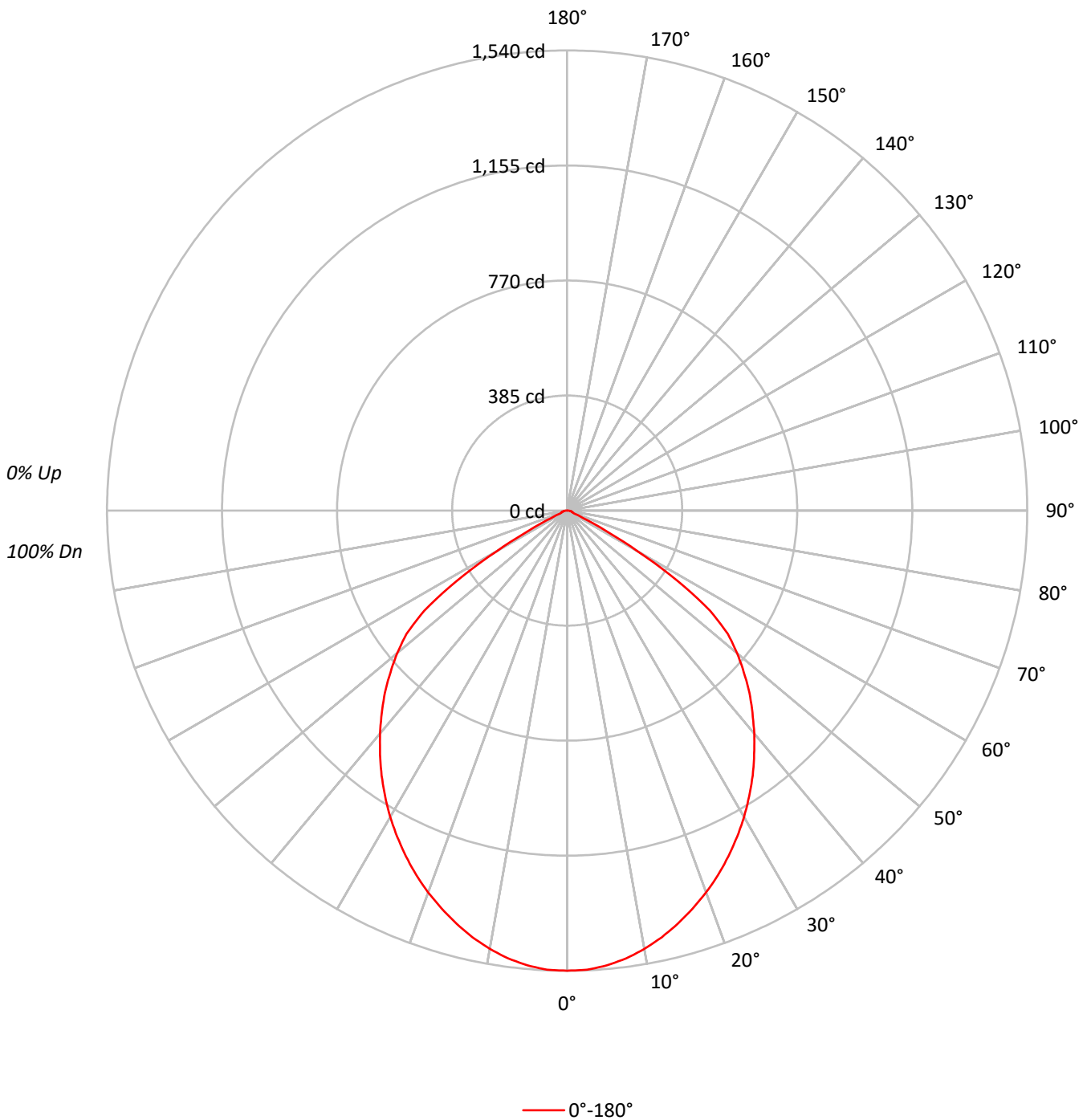
Lumens per Lamp: N/A
Luminaire Lumens: 3084.1 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.15 / 1.27
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

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	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78
3	96	87	80	75	93	86	79	74	83	77	73	80	76	72	78	74	71	69
4	89	78	71	65	86	77	70	65	75	69	64	73	67	63	71	66	62	60
5	82	71	63	57	80	70	63	57	68	61	56	66	60	56	64	59	55	53
6	76	64	56	51	74	64	56	51	62	55	50	60	54	50	59	53	49	48
7	71	59	51	45	69	58	51	45	57	50	45	55	49	45	54	48	44	43
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38
9	62	50	42	37	61	49	42	37	48	41	37	47	41	37	46	40	36	35
10	58	46	39	34	57	45	38	34	45	38	34	44	38	33	43	37	33	32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	12252
5°	12202
10°	12035
15°	11790
20°	11514
25°	11206
30°	10878
35°	10514
40°	10115
45°	9704
50°	9195
55°	8100
60°	4318
65°	1135
70°	468
75°	526
80°	600
85°	730

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 9704 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.6	4.7
10°-20°	403.1	13.1
20°-30°	587.7	19.1
30°-40°	676.5	21.9
40°-50°	663.8	21.5
50°-60°	491.6	15.9
60°-70°	90.7	2.9
70°-80°	17.9	0.6
80°-90°	8.1	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°	1135.5	36.8
0°-40°	1812.0	58.8
0°-60°	2967.4	96.2
0°-90°	3084.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3084.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1540	
5°	1528	145
15°	1431	403
25°	1277	588
35°	1083	676
45°	862	664
55°	584	492
65°	60	91
75°	17	18
85°	8	8
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1540.0
2.5°	1538.0
5°	1527.9
7.5°	1511.8
10°	1489.7
12.5°	1462.6
15°	1431.4
17.5°	1396.2
20°	1360.0
22.5°	1319.8
25°	1276.6
27.5°	1231.4
30°	1184.1
32.5°	1133.9
35°	1082.6
37.5°	1028.3
40°	974.0
42.5°	917.8
45°	862.5
47.5°	802.2
50°	742.9
52.5°	677.5
55°	584.0
57.5°	441.3
60°	271.4
62.5°	139.7
65°	60.3
67.5°	26.1
70°	20.1
72.5°	19.1
75°	17.1
77.5°	15.1
80°	13.1
82.5°	11.1
85°	8.0
87.5°	4.0
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	18.30	19.73	18.66	20.04	20.36	18.30	19.73	18.66	20.04	20.36
	3H	18.20	19.46	18.58	19.79	20.15	18.20	19.46	18.58	19.79	20.15
	4H	18.15	19.32	18.55	19.67	20.05	18.15	19.32	18.55	19.67	20.05
	6H	18.09	19.16	18.51	19.53	19.93	18.09	19.16	18.51	19.53	19.93
	8H	18.06	19.08	18.49	19.47	19.87	18.06	19.08	18.49	19.47	19.87
	12H	18.03	19.01	18.47	19.39	19.82	18.03	19.01	18.47	19.39	19.82
4H	2H	18.15	19.32	18.56	19.67	20.05	18.15	19.32	18.56	19.67	20.05
	3H	18.07	19.01	18.48	19.41	19.81	18.07	19.01	18.48	19.41	19.81
	4H	18.01	18.84	18.44	19.26	19.70	18.01	18.84	18.44	19.26	19.70
	6H	17.96	18.68	18.42	19.13	19.59	17.96	18.68	18.42	19.13	19.59
	8H	17.92	18.60	18.39	19.05	19.52	17.92	18.60	18.39	19.05	19.52
	12H	17.90	18.50	18.38	18.98	19.45	17.90	18.50	18.38	18.98	19.45
8H	4H	17.89	18.56	18.36	19.01	19.48	17.89	18.56	18.36	19.01	19.48
	6H	17.83	18.39	18.33	18.88	19.36	17.83	18.39	18.33	18.88	19.36
	8H	17.79	18.30	18.31	18.81	19.31	17.79	18.30	18.31	18.81	19.31
	12H	17.78	18.23	18.29	18.73	19.30	17.78	18.23	18.29	18.73	19.30
12H	4H	17.85	18.45	18.33	18.93	19.40	17.85	18.45	18.33	18.93	19.40
	6H	17.77	18.28	18.29	18.79	19.28	17.77	18.28	18.29	18.79	19.28
	8H	17.76	18.21	18.27	18.71	19.28	17.76	18.21	18.27	18.71	19.28