

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: P865731

Luminaire Tested: PRLX-2002-S-940-25L-L-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865731
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-19)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-S-940-25L-L-U-S-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 5
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

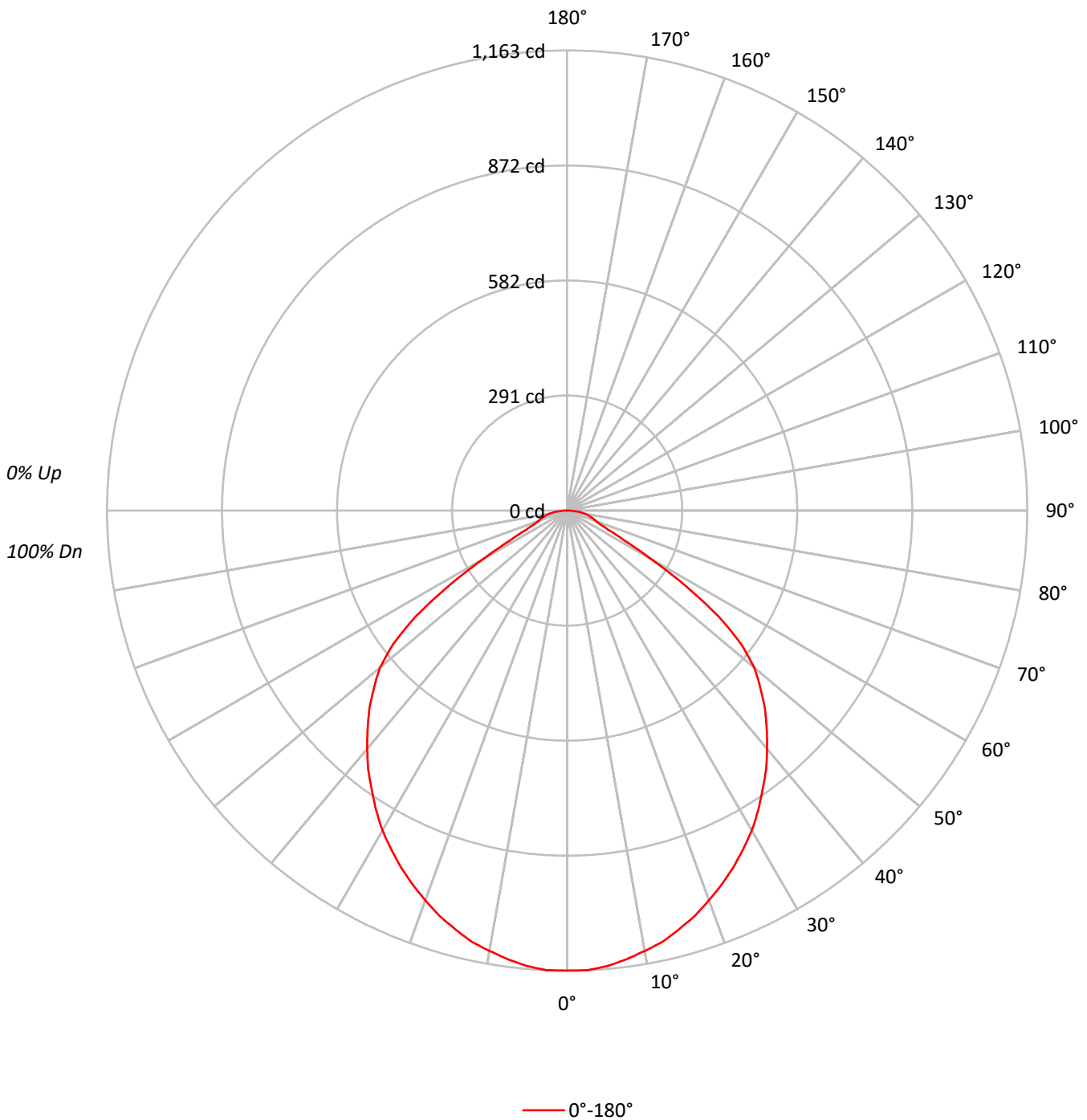
Lumens per Lamp: N/A
Luminaire Lumens: 2581.0 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.31
Luminous Opening: Circular (Dia: 0.85' x H: 0')
CIE Type: Direct

Input Watts (W): 29.1
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	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	81	87	83	80	84	81	78	76
3	94	85	78	72	92	83	77	71	80	75	70	78	73	69	75	71	68	66
4	87	76	68	62	85	75	68	62	72	66	61	70	65	60	68	63	60	58
5	80	69	60	54	78	68	60	54	66	59	54	64	58	53	62	57	53	51
6	74	62	54	48	73	61	54	48	60	53	47	58	52	47	56	51	47	45
7	69	57	49	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40
8	65	52	44	38	63	51	44	38	50	43	38	49	42	38	48	42	38	36
9	60	48	40	35	59	47	40	35	46	39	35	45	39	34	44	38	34	32
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	30

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	21840
5°	21790
10°	21552
15°	21290
20°	20949
25°	20606
30°	20246
35°	19742
40°	19274
45°	18768
50°	18048
55°	15323
60°	9140
65°	5094
70°	4240
75°	4413
80°	4803
85°	5043

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 18768 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.5	4.2
10°-20°	308.7	12.0
20°-30°	457.9	17.7
30°-40°	539.2	20.9
40°-50°	543.5	21.1
50°-60°	402.8	15.6
60°-70°	129.3	5.0
70°-80°	64.8	2.5
80°-90°	25.1	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°	876.1	33.9
0°-40°	1415.3	54.8
0°-60°	2361.7	91.5
0°-90°	2581.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2581.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1163	
5°	1156	109
15°	1095	309
25°	994	458
35°	861	539
45°	706	544
55°	468	403
65°	115	129
75°	61	65
85°	23	25
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1162.7
2.5°	1162.7
5°	1155.6
7.5°	1143.9
10°	1129.9
12.5°	1115.9
15°	1094.8
17.5°	1073.8
20°	1048.0
22.5°	1022.3
25°	994.2
27.5°	963.8
30°	933.4
32.5°	898.3
35°	860.9
37.5°	825.8
40°	786.0
42.5°	746.3
45°	706.5
47.5°	662.0
50°	617.6
52.5°	554.4
55°	467.9
57.5°	357.9
60°	243.3
62.5°	161.4
65°	114.6
67.5°	88.9
70°	77.2
72.5°	70.2
75°	60.8
77.5°	53.8
80°	44.4
82.5°	35.1
85°	23.4
87.5°	11.7
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	20.40	21.89	20.77	22.21	22.52	20.40	21.89	20.77	22.21	22.52
	3H	20.65	21.97	21.03	22.30	22.66	20.65	21.97	21.03	22.30	22.66
	4H	20.81	22.04	21.21	22.39	22.77	20.81	22.04	21.21	22.39	22.77
	6H	21.00	22.14	21.41	22.51	22.90	21.00	22.14	21.41	22.51	22.90
	8H	21.09	22.17	21.51	22.56	22.96	21.09	22.17	21.51	22.56	22.96
	12H	21.16	22.19	21.59	22.57	23.00	21.16	22.19	21.59	22.57	23.00
4H	2H	20.40	21.64	20.80	21.99	22.37	20.40	21.64	20.80	21.99	22.37
	3H	20.79	21.80	21.20	22.20	22.60	20.79	21.80	21.20	22.20	22.60
	4H	21.05	21.95	21.48	22.37	22.81	21.05	21.95	21.48	22.37	22.81
	6H	21.37	22.16	21.83	22.60	23.06	21.37	22.16	21.83	22.60	23.06
	8H	21.52	22.25	21.98	22.70	23.17	21.52	22.25	21.98	22.70	23.17
	12H	21.65	22.30	22.13	22.78	23.25	21.65	22.30	22.13	22.78	23.25
8H	4H	21.11	21.85	21.58	22.29	22.76	21.11	21.85	21.58	22.29	22.76
	6H	21.55	22.16	22.04	22.65	23.13	21.55	22.16	22.04	22.65	23.13
	8H	21.77	22.32	22.28	22.83	23.32	21.77	22.32	22.28	22.83	23.32
	12H	21.98	22.47	22.49	22.97	23.53	21.98	22.47	22.49	22.97	23.53
12H	4H	21.11	21.77	21.60	22.25	22.72	21.11	21.77	21.60	22.25	22.72
	6H	21.57	22.12	22.08	22.63	23.12	21.57	22.12	22.08	22.63	23.12
	8H	21.84	22.34	22.35	22.83	23.40	21.84	22.34	22.35	22.83	23.40