

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: P865640

Luminaire Tested: PRLX-2002-S-930-20L-L-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865640
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-22)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-S-930-20L-L-U-S-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 4
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

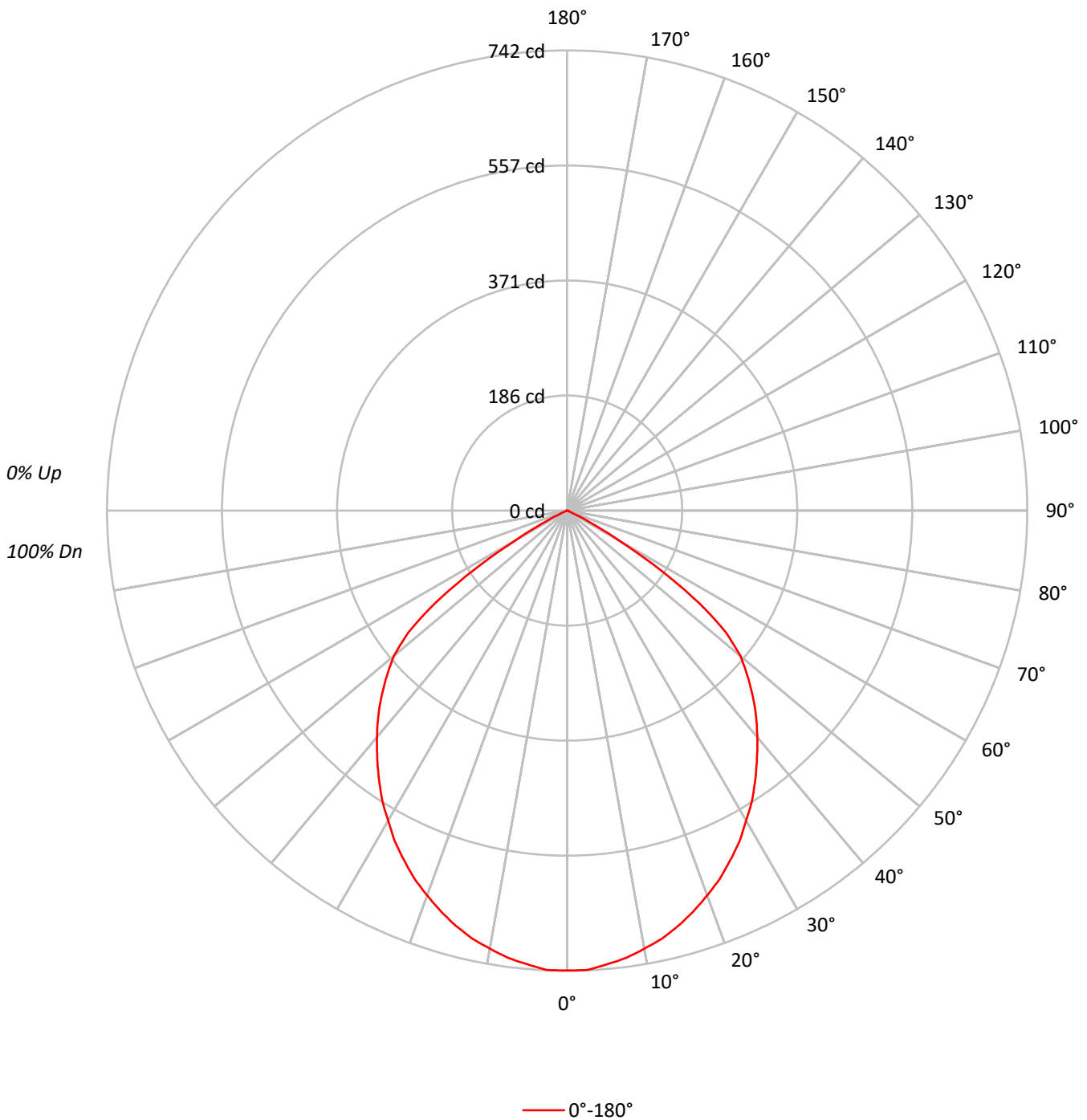
Lumens per Lamp: N/A
Luminaire Lumens: 1460.4 lumens
Efficiency: N/A
Efficacy: 67.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.28
Luminous Opening: Circular (Dia: 0.85' x H: 0')
CIE Type: Direct

Input Watts (W): 21.8
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	112	108	105	102	109	106	103	101	102	100	97	98	96	95	95	93	92	90
2	104	98	92	88	101	96	91	87	92	88	85	89	86	83	86	84	81	79
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	62
5	83	72	64	58	81	71	64	58	69	62	58	67	61	57	65	60	56	55
6	77	65	57	52	75	64	57	52	63	56	51	61	55	51	60	54	50	49
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44
8	67	55	47	42	65	54	47	42	53	46	41	52	46	41	51	45	41	39
9	63	50	43	38	61	50	43	38	49	42	38	48	42	37	47	41	37	36
10	59	47	39	35	58	46	39	34	45	39	34	44	38	34	43	38	34	32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	13929
5°	13850
10°	13682
15°	13479
20°	13197
25°	12896
30°	12522
35°	12128
40°	11697
45°	11248
50°	10658
55°	8489
60°	3701
65°	769
70°	93
75°	123
80°	184
85°	366

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 11248 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.6	4.8
10°-20°	195.2	13.4
20°-30°	286.5	19.6
30°-40°	330.7	22.6
40°-50°	325.9	22.3
50°-60°	220.5	15.1
60°-70°	28.6	2.0
70°-80°	1.8	0.1
80°-90°	1.6	0.1
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°	551.3	37.7
0°-40°	882.0	60.4
0°-60°	1428.4	97.8
0°-90°	1460.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1460.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	742	
5°	734	70
15°	693	195
25°	622	286
35°	529	331
45°	423	326
55°	259	221
65°	17	29
75°	2	2
85°	2	2
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	741.5
2.5°	741.5
5°	734.5
7.5°	727.6
10°	717.3
12.5°	706.9
15°	693.1
17.5°	677.5
20°	660.2
22.5°	642.9
25°	622.2
27.5°	601.5
30°	577.3
32.5°	554.8
35°	528.9
37.5°	502.9
40°	477.0
42.5°	451.1
45°	423.4
47.5°	394.1
50°	364.7
52.5°	323.2
55°	259.2
57.5°	179.7
60°	98.5
62.5°	46.7
65°	17.3
67.5°	3.5
70°	1.7
72.5°	1.7
75°	1.7
77.5°	1.7
80°	1.7
82.5°	1.7
85°	1.7
87.5°	1.7
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	17.64	19.04	18.00	19.35	19.67	17.64	19.04	18.00	19.35	19.67
	3H	17.52	18.75	17.90	19.08	19.44	17.52	18.75	17.90	19.08	19.44
	4H	17.45	18.59	17.85	18.94	19.32	17.45	18.59	17.85	18.94	19.32
	6H	17.38	18.42	17.79	18.79	19.19	17.38	18.42	17.79	18.79	19.19
	8H	17.34	18.33	17.77	18.72	19.12	17.34	18.33	17.77	18.72	19.12
	12H	17.30	18.25	17.73	18.63	19.06	17.30	18.25	17.73	18.63	19.06
4H	2H	17.47	18.61	17.87	18.96	19.34	17.47	18.61	17.87	18.96	19.34
	3H	17.35	18.27	17.77	18.67	19.08	17.35	18.27	17.77	18.67	19.08
	4H	17.27	18.08	17.71	18.50	18.95	17.27	18.08	17.71	18.50	18.95
	6H	17.20	17.90	17.66	18.34	18.81	17.20	17.90	17.66	18.34	18.81
	8H	17.14	17.80	17.61	18.24	18.71	17.14	17.80	17.61	18.24	18.71
	12H	17.10	17.68	17.59	18.16	18.64	17.10	17.68	17.59	18.16	18.64
8H	4H	17.14	17.79	17.61	18.24	18.71	17.14	17.79	17.61	18.24	18.71
	6H	17.04	17.58	17.54	18.07	18.55	17.04	17.58	17.54	18.07	18.55
	8H	16.97	17.46	17.49	17.98	18.47	16.97	17.46	17.49	17.98	18.47
	12H	16.93	17.37	17.44	17.87	18.43	16.93	17.37	17.44	17.87	18.43
12H	4H	17.09	17.67	17.58	18.15	18.63	17.09	17.67	17.58	18.15	18.63
	6H	16.97	17.46	17.49	17.98	18.47	16.97	17.46	17.49	17.98	18.47
	8H	16.92	17.37	17.44	17.86	18.43	16.92	17.37	17.44	17.86	18.43