

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: P865648

Luminaire Tested: PRLX-2002-S-930-25L-L-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865648
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-930-25L-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 5
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

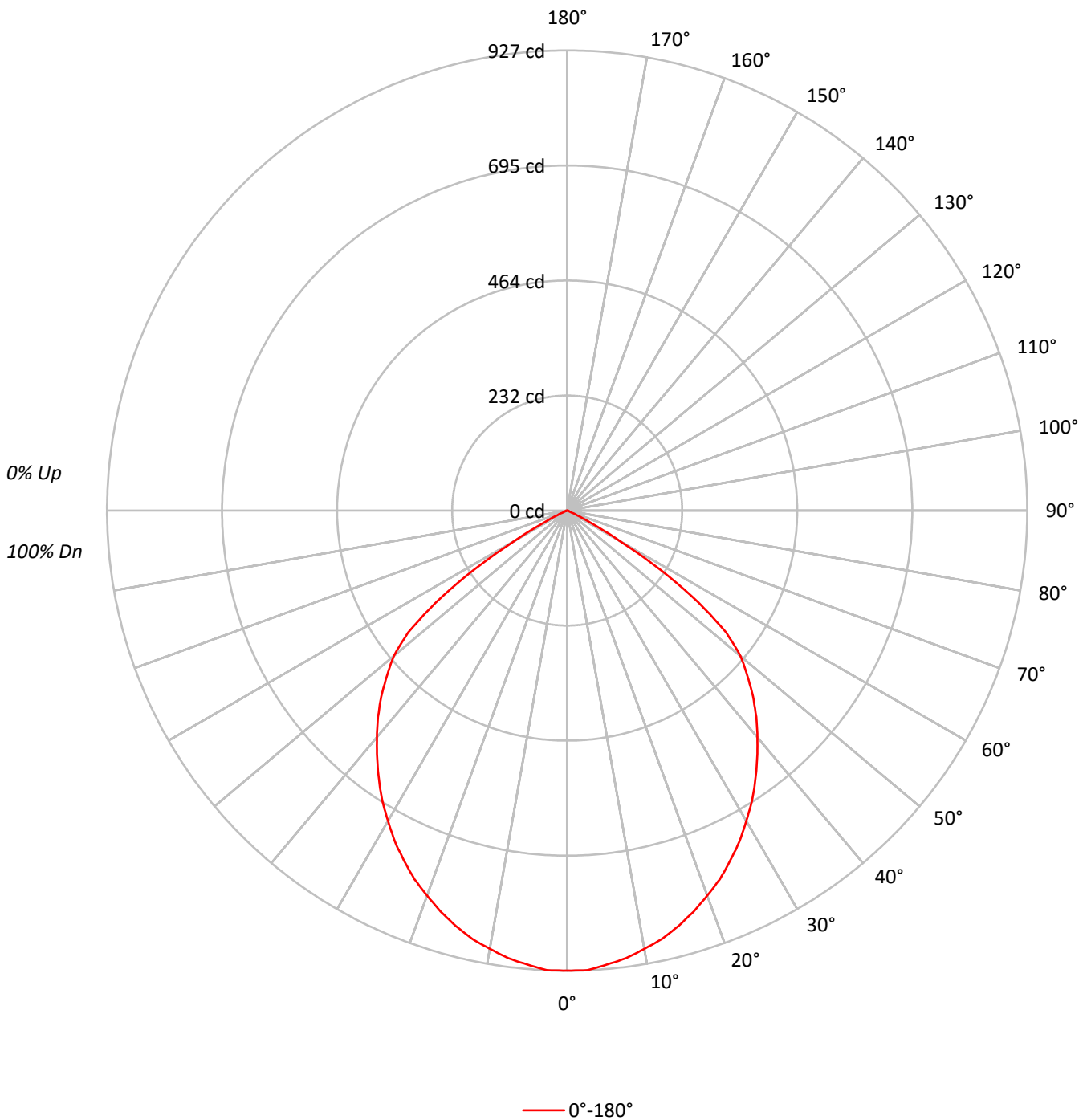
Lumens per Lamp: N/A
Luminaire Lumens: 1825.7 lumens
Efficiency: N/A
Efficacy: 62.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.28
Luminous Opening: Circular (Dia: 0.85' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	17409
5°	17314
10°	17102
15°	16847
20°	16498
25°	16119
30°	15652
35°	15160
40°	14622
45°	14061
50°	13320
55°	10614
60°	4625
65°	960
70°	121
75°	160
80°	238
85°	474

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 14061 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.0	4.8
10°-20°	244.0	13.4
20°-30°	358.1	19.6
30°-40°	413.4	22.6
40°-50°	407.4	22.3
50°-60°	275.7	15.1
60°-70°	35.7	2.0
70°-80°	2.3	0.1
80°-90°	2.1	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°	689.1	37.7
0°-40°	1102.5	60.4
0°-60°	1785.6	97.8
0°-90°	1825.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1825.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	927	
5°	918	87
15°	866	244
25°	778	358
35°	661	413
45°	529	407
55°	324	276
65°	22	36
75°	2	2
85°	2	2
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	926.8
2.5°	926.8
5°	918.2
7.5°	909.5
10°	896.6
12.5°	883.6
15°	866.3
17.5°	846.9
20°	825.3
22.5°	803.7
25°	777.7
27.5°	751.8
30°	721.6
32.5°	693.5
35°	661.1
37.5°	628.7
40°	596.3
42.5°	563.9
45°	529.3
47.5°	492.6
50°	455.8
52.5°	404.0
55°	324.1
57.5°	224.7
60°	123.1
62.5°	58.3
65°	21.6
67.5°	4.3
70°	2.2
72.5°	2.2
75°	2.2
77.5°	2.2
80°	2.2
82.5°	2.2
85°	2.2
87.5°	2.2
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	18.41	19.81	18.78	20.13	20.44	18.41	19.81	18.78	20.13	20.44
	3H	18.29	19.52	18.67	19.85	20.22	18.29	19.52	18.67	19.85	20.22
	4H	18.23	19.37	18.63	19.72	20.10	18.23	19.37	18.63	19.72	20.10
	6H	18.16	19.20	18.57	19.57	19.96	18.16	19.20	18.57	19.57	19.96
	8H	18.12	19.11	18.54	19.50	19.90	18.12	19.11	18.54	19.50	19.90
	12H	18.08	19.03	18.51	19.41	19.84	18.08	19.03	18.51	19.41	19.84
4H	2H	18.25	19.39	18.65	19.74	20.12	18.25	19.39	18.65	19.74	20.12
	3H	18.13	19.05	18.54	19.45	19.85	18.13	19.05	18.54	19.45	19.85
	4H	18.05	18.86	18.48	19.28	19.72	18.05	18.86	18.48	19.28	19.72
	6H	17.97	18.67	18.44	19.12	19.59	17.97	18.67	18.44	19.12	19.59
	8H	17.92	18.57	18.39	19.02	19.49	17.92	18.57	18.39	19.02	19.49
	12H	17.88	18.46	18.36	18.94	19.41	17.88	18.46	18.36	18.94	19.41
8H	4H	17.91	18.57	18.38	19.02	19.49	17.91	18.57	18.38	19.02	19.49
	6H	17.81	18.35	18.31	18.85	19.33	17.81	18.35	18.31	18.85	19.33
	8H	17.75	18.24	18.27	18.76	19.25	17.75	18.24	18.27	18.76	19.25
	12H	17.71	18.15	18.22	18.64	19.21	17.71	18.15	18.22	18.64	19.21
12H	4H	17.87	18.45	18.35	18.93	19.41	17.87	18.45	18.35	18.93	19.41
	6H	17.75	18.24	18.27	18.75	19.24	17.75	18.24	18.27	18.75	19.24
	8H	17.70	18.14	18.21	18.64	19.21	17.70	18.14	18.21	18.64	19.21