

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: P867077

Luminaire Tested: PRLX-2002-L-935-32L-L-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867077
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-81)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2002-L-935-32L-L-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 2
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

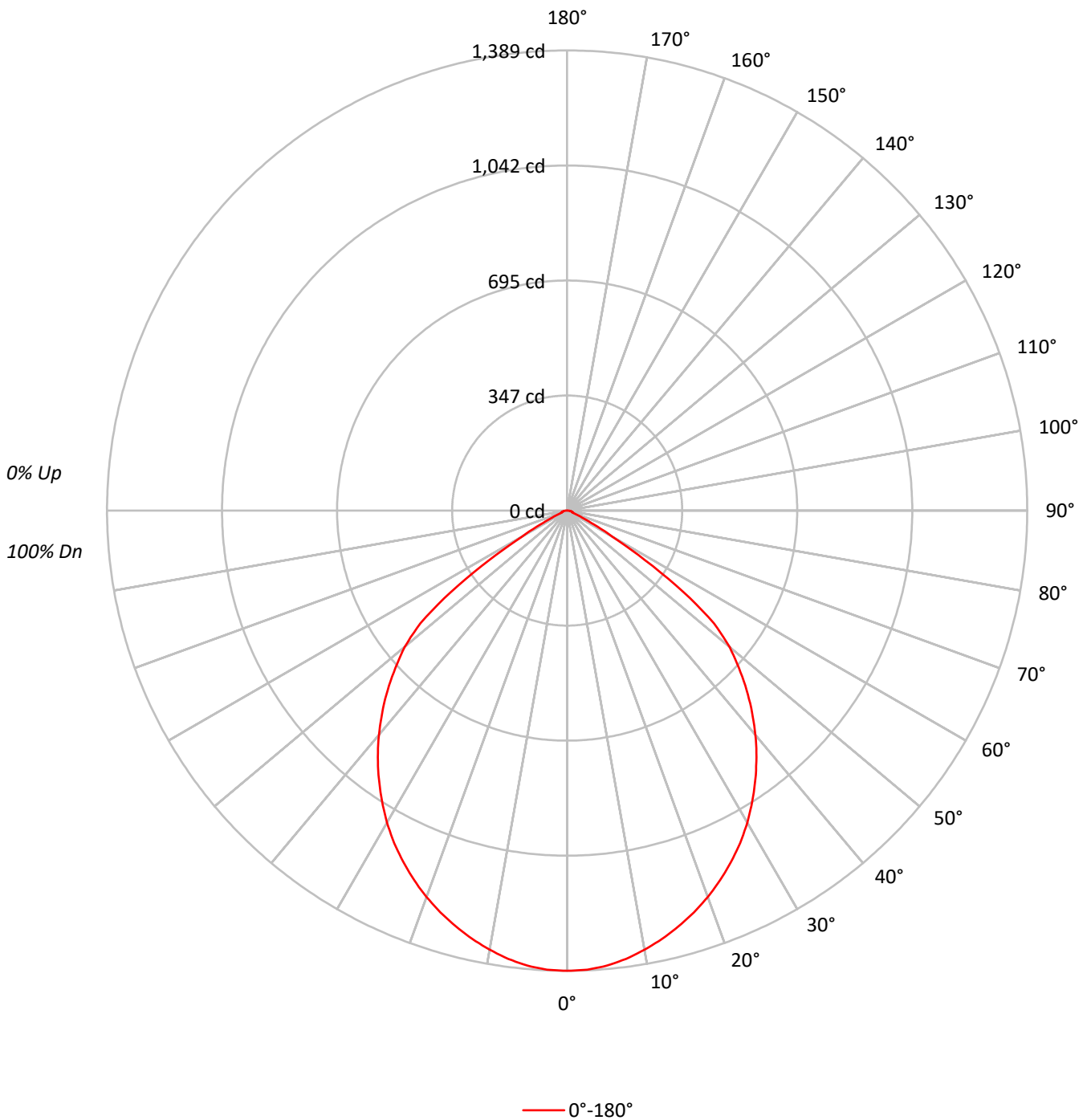
Lumens per Lamp: N/A
Luminaire Lumens: 2696.8 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.27
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 26.1
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: 0.5 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		94	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	77	73		78	75	72	70
4	89	79	72	66	87	78	71	66	76	70	65		74	68	64		72	67	64	62
5	83	72	64	59	81	71	64	58	69	63	58		67	62	57		65	60	57	55
6	77	65	58	52	75	65	57	52	63	56	51		61	56	51		60	55	51	49
7	72	60	52	47	70	59	52	47	58	51	46		56	50	46		55	50	46	44
8	67	55	47	42	66	54	47	42	53	46	42		52	46	42		51	45	41	40
9	63	51	43	38	62	50	43	38	49	43	38		48	42	38		47	42	38	36
10	59	47	40	35	58	46	39	35	46	39	35		45	39	35		44	38	34	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	6853
5°	6828
10°	6743
15°	6637
20°	6517
25°	6372
30°	6196
35°	5968
40°	5695
45°	5348
50°	4914
55°	3696
60°	1556
65°	573
70°	264
75°	288
80°	332
85°	391

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5348 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.6	4.8
10°-20°	366.2	13.6
20°-30°	538.7	20.0
30°-40°	618.8	22.9
40°-50°	589.4	21.9
50°-60°	369.1	13.7
60°-70°	61.1	2.3
70°-80°	15.9	0.6
80°-90°	7.0	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°	1035.5	38.4
0°-40°	1654.3	61.3
0°-60°	2612.8	96.9
0°-90°	2696.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2696.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1389	
5°	1379	131
15°	1299	366
25°	1170	539
35°	991	619
45°	766	589
55°	430	369
65°	49	61
75°	15	16
85°	7	7
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1389.0
2.5°	1387.6
5°	1378.7
7.5°	1364.8
10°	1345.9
12.5°	1324.5
15°	1299.3
17.5°	1271.9
20°	1241.3
22.5°	1207.3
25°	1170.5
27.5°	1131.3
30°	1087.6
32.5°	1040.2
35°	990.8
37.5°	938.8
40°	884.2
42.5°	826.2
45°	766.5
47.5°	702.8
50°	640.2
52.5°	559.1
55°	429.7
57.5°	277.7
60°	157.7
62.5°	89.4
65°	49.1
67.5°	23.1
70°	18.3
72.5°	16.9
75°	15.1
77.5°	13.4
80°	11.7
82.5°	9.4
85°	6.9
87.5°	3.4
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	13.91	15.30	14.27	15.61	15.93	13.91	15.30	14.27	15.61	15.93
	3H	13.82	15.05	14.20	15.38	15.74	13.82	15.05	14.20	15.38	15.74
	4H	13.78	14.92	14.18	15.27	15.65	13.78	14.92	14.18	15.27	15.65
	6H	13.74	14.78	14.15	15.15	15.55	13.74	14.78	14.15	15.15	15.55
	8H	13.72	14.70	14.15	15.10	15.50	13.72	14.70	14.15	15.10	15.50
	12H	13.69	14.64	14.13	15.02	15.45	13.69	14.64	14.13	15.02	15.45
4H	2H	13.78	14.91	14.18	15.26	15.65	13.78	14.91	14.18	15.26	15.65
	3H	13.71	14.63	14.12	15.03	15.43	13.71	14.63	14.12	15.03	15.43
	4H	13.67	14.48	14.10	14.90	15.34	13.67	14.48	14.10	14.90	15.34
	6H	13.65	14.35	14.11	14.80	15.26	13.65	14.35	14.11	14.80	15.26
	8H	13.62	14.28	14.09	14.73	15.20	13.62	14.28	14.09	14.73	15.20
	12H	13.61	14.20	14.10	14.68	15.15	13.61	14.20	14.10	14.68	15.15
8H	4H	13.56	14.21	14.03	14.66	15.13	13.56	14.21	14.03	14.66	15.13
	6H	13.54	14.08	14.04	14.57	15.06	13.54	14.08	14.04	14.57	15.06
	8H	13.52	14.02	14.04	14.53	15.02	13.52	14.02	14.04	14.53	15.02
	12H	13.53	13.97	14.04	14.47	15.04	13.53	13.97	14.04	14.47	15.04
12H	4H	13.52	14.10	14.00	14.58	15.06	13.52	14.10	14.00	14.58	15.06
	6H	13.48	13.98	14.00	14.49	14.98	13.48	13.98	14.00	14.49	14.98
	8H	13.50	13.94	14.01	14.43	15.00	13.50	13.94	14.01	14.43	15.00