

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: P867061

Luminaire Tested: PRLX-2002-L-935-133L-L-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867061
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: Prenalux
Catalog Number: PRLX-2002-L-935-133L-L-X-X-BRSS-X
Description: PRENATALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 8
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

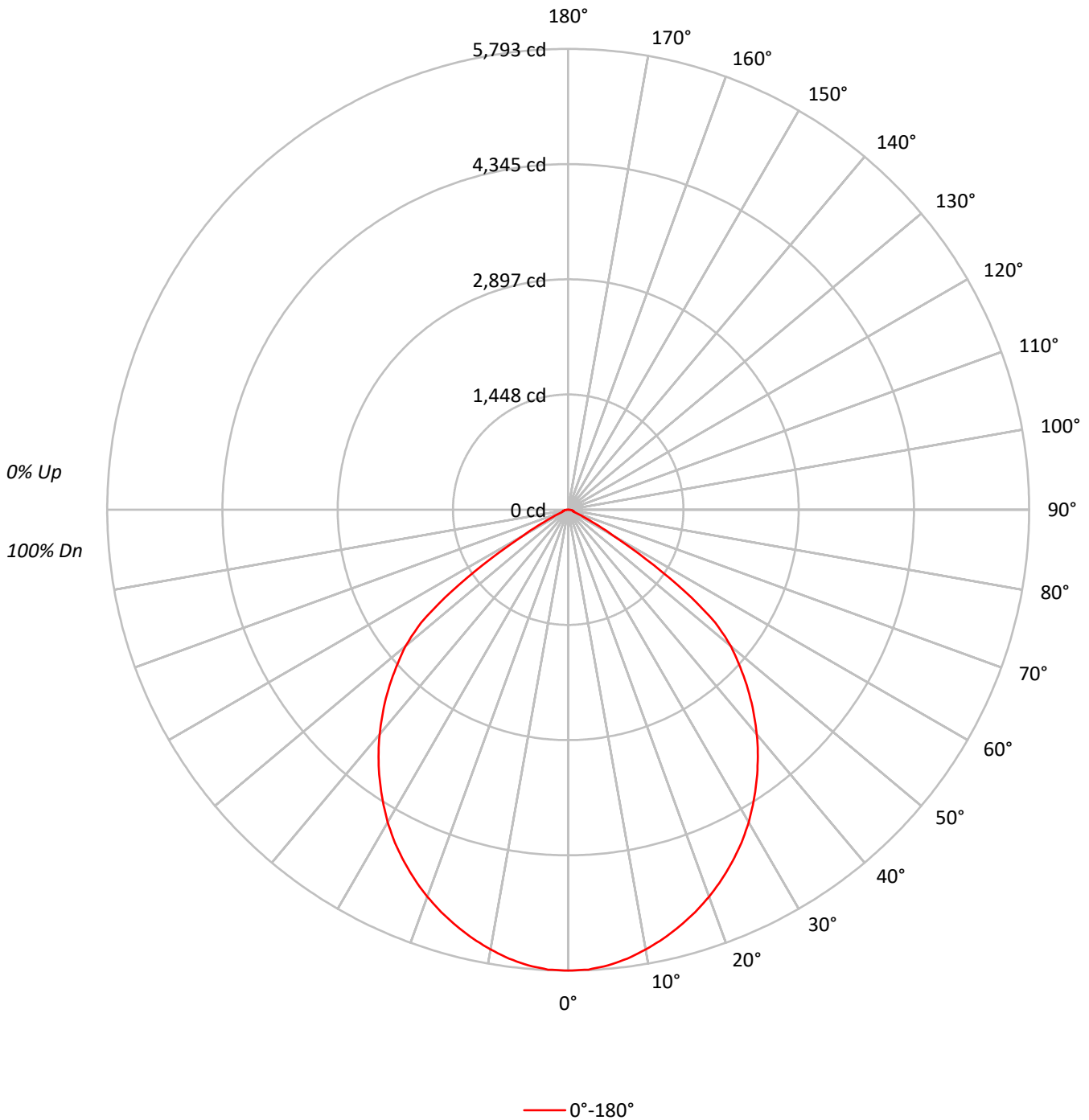
Lumens per Lamp: N/A
Luminaire Lumens: 11247.7 lumens
Efficiency: N/A
Efficacy: 100.6 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.27
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 111.8
Input Voltage (V): 120
Input Current (Ain): 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°	28583
5°	28479
10°	28122
15°	27679
20°	27183
25°	26575
30°	25843
35°	24889
40°	23752
45°	22306
50°	20496
55°	15415
60°	6490
65°	2392
70°	1101
75°	1205
80°	1389
85°	1619

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 22306 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	544.5	4.8
10°-20°	1527.5	13.6
20°-30°	2246.9	20.0
30°-40°	2580.6	22.9
40°-50°	2458.3	21.9
50°-60°	1539.6	13.7
60°-70°	254.8	2.3
70°-80°	66.6	0.6
80°-90°	29.0	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°	4318.9	38.4
0°-40°	6899.5	61.3
0°-60°	10897.4	96.9
0°-90°	11247.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11247.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5793	
5°	5750	545
15°	5419	1527
25°	4882	2247
35°	4132	2581
45°	3197	2458
55°	1792	1540
65°	205	255
75°	63	67
85°	29	29
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	5793.2
2.5°	5787.2
5°	5750.3
7.5°	5691.9
10°	5613.3
12.5°	5523.9
15°	5419.0
17.5°	5304.7
20°	5177.2
22.5°	5035.4
25°	4881.7
27.5°	4718.4
30°	4536.1
32.5°	4338.3
35°	4132.2
37.5°	3915.3
40°	3687.8
42.5°	3445.9
45°	3196.9
47.5°	2931.1
50°	2670.2
52.5°	2331.8
55°	1792.1
57.5°	1158.2
60°	657.7
62.5°	372.9
65°	204.9
67.5°	96.5
70°	76.3
72.5°	70.3
75°	63.2
77.5°	56.0
80°	48.9
82.5°	39.3
85°	28.6
87.5°	14.3
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	18.87	20.26	19.23	20.57	20.89	18.87	20.26	19.23	20.57	20.89
	3H	18.78	20.01	19.16	20.34	20.70	18.78	20.01	19.16	20.34	20.70
	4H	18.74	19.88	19.14	20.23	20.61	18.74	19.88	19.14	20.23	20.61
	6H	18.70	19.74	19.11	20.11	20.51	18.70	19.74	19.11	20.11	20.51
	8H	18.68	19.67	19.11	20.06	20.46	18.68	19.67	19.11	20.06	20.46
	12H	18.66	19.60	19.09	19.98	20.41	18.66	19.60	19.09	19.98	20.41
4H	2H	18.74	19.87	19.14	20.23	20.61	18.74	19.87	19.14	20.23	20.61
	3H	18.67	19.59	19.08	19.99	20.39	18.67	19.59	19.08	19.99	20.39
	4H	18.63	19.44	19.06	19.86	20.31	18.63	19.44	19.06	19.86	20.31
	6H	18.61	19.31	19.07	19.76	20.22	18.61	19.31	19.07	19.76	20.22
	8H	18.59	19.24	19.06	19.69	20.16	18.59	19.24	19.06	19.69	20.16
	12H	18.57	19.16	19.06	19.64	20.11	18.57	19.16	19.06	19.64	20.11
8H	4H	18.52	19.18	18.99	19.62	20.09	18.52	19.18	18.99	19.62	20.09
	6H	18.50	19.04	19.00	19.54	20.02	18.50	19.04	19.00	19.54	20.02
	8H	18.49	18.98	19.01	19.49	19.98	18.49	18.98	19.01	19.49	19.98
	12H	18.49	18.93	19.01	19.43	20.00	18.49	18.93	19.01	19.43	20.00
12H	4H	18.48	19.06	18.96	19.54	20.02	18.48	19.06	18.96	19.54	20.02
	6H	18.45	18.94	18.97	19.45	19.94	18.45	18.94	18.97	19.45	19.94
	8H	18.46	18.90	18.97	19.40	19.96	18.46	18.90	18.97	19.40	19.96