

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: P865428

Luminaire Tested: PRLX-2001-S-927-15L-G-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865428
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-S-927-15L-G-U-S-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 3
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

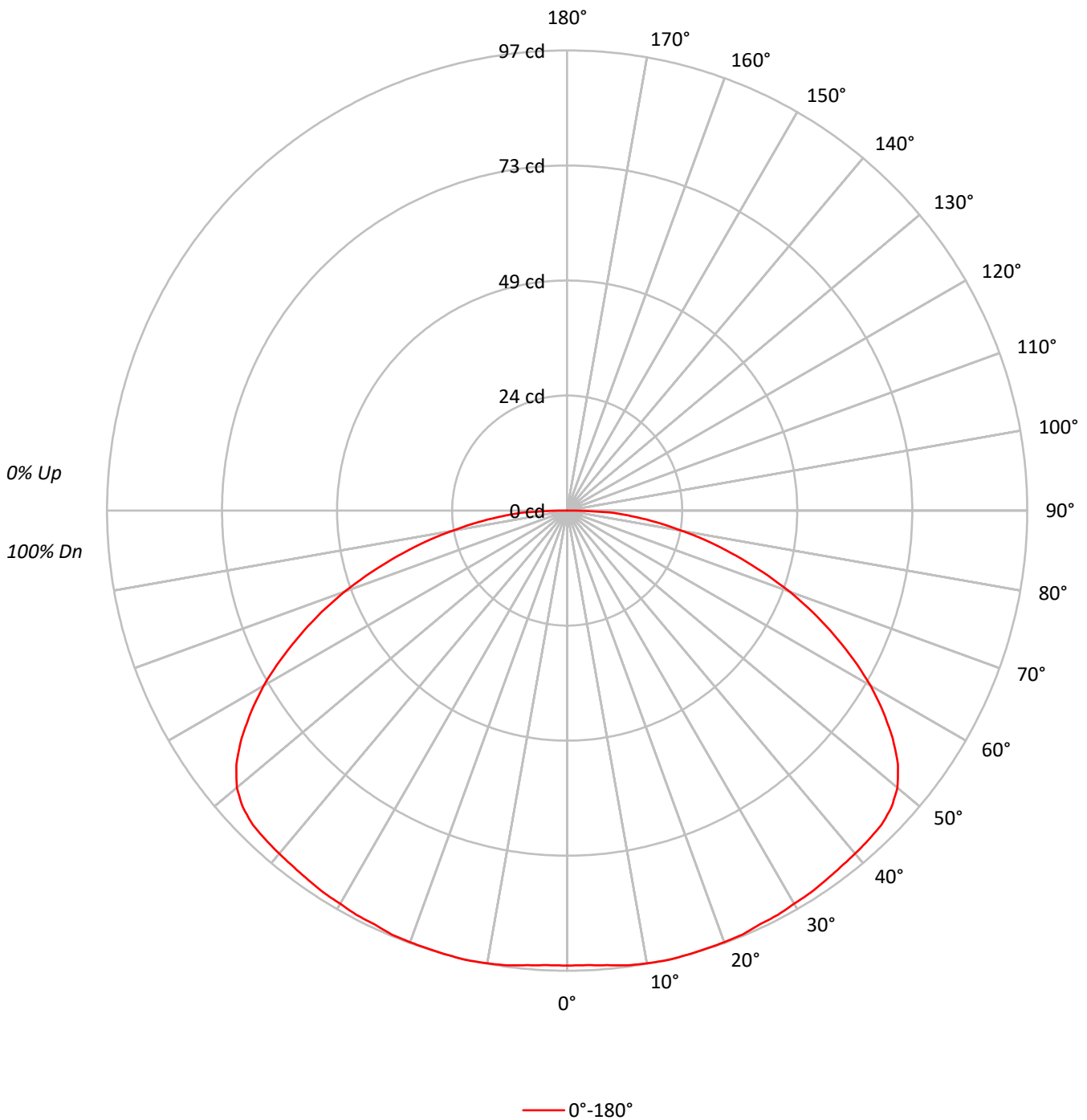
Lumens per Lamp: N/A
Luminaire Lumens: 403.0 lumens
Efficiency: N/A
Efficacy: 25.8 lumens/watt
Spacing Criteria (0/90/45): 1.52 / 1.52 / 1.69
Luminous Opening: Circular (Dia: 0.92' x H: 0')
CIE Type: Direct

Input Watts (W): 15.6
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	107	102	97	92	104	99	95	91	95	91	88		91	88	85		87	85	82	80
2	96	87	79	73	93	85	78	72	81	75	70		78	73	68		75	71	67	64
3	87	75	66	59	84	73	65	58	70	63	57		67	61	56		65	60	55	53
4	79	66	56	49	76	64	55	48	62	54	47		59	52	47		57	51	46	44
5	72	58	48	41	70	57	48	41	55	46	40		53	45	40		51	44	39	37
6	66	52	42	35	64	51	42	35	49	41	35		47	40	34		45	39	34	32
7	61	46	37	30	59	46	37	30	44	36	30		43	35	30		41	35	30	27
8	57	42	33	27	55	41	33	27	40	32	27		39	32	26		37	31	26	24
9	53	38	30	24	51	38	29	24	37	29	24		35	28	23		34	28	23	21
10	49	35	27	21	48	35	27	21	34	26	21		33	26	21		32	25	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1564
5°	1575
10°	1605
15°	1638
20°	1680
25°	1731
30°	1802
35°	1894
40°	2010
45°	2161
50°	2307
55°	2383
60°	2411
65°	2397
70°	2375
75°	2325
80°	2311
85°	2564

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 87.5°
 Luminance: 3328 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.2	2.3
10°-20°	27.5	6.8
20°-30°	44.6	11.1
30°-40°	59.7	14.8
40°-50°	72.2	17.9
50°-60°	74.6	18.5
60°-70°	61.4	15.2
70°-80°	39.1	9.7
80°-90°	14.7	3.6
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°	81.3	20.2
0°-40°	141.0	35.0
0°-60°	287.7	71.4
0°-90°	403.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	403.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	96	
5°	96	9
15°	97	27
25°	96	45
35°	95	60
45°	94	72
55°	84	75
65°	62	61
75°	37	39
85°	14	15
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	95.9
2.5°	95.9
5°	96.2
7.5°	96.7
10°	96.9
12.5°	97.1
15°	97.0
17.5°	96.9
20°	96.8
22.5°	96.7
25°	96.2
27.5°	96.1
30°	95.7
32.5°	95.5
35°	95.1
37.5°	94.7
40°	94.4
42.5°	94.1
45°	93.7
47.5°	92.7
50°	90.9
52.5°	87.9
55°	83.8
57.5°	79.0
60°	73.9
62.5°	68.1
65°	62.1
67.5°	56.1
70°	49.8
72.5°	43.3
75°	36.9
77.5°	30.8
80°	24.6
82.5°	19.1
85°	13.7
87.5°	8.9
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	15.64	17.41	16.01	17.73	18.04	15.64	17.41	16.01	17.73	18.04
	3H	17.73	19.34	18.10	19.66	20.02	17.73	19.34	18.10	19.66	20.02
	4H	18.56	20.08	18.95	20.43	20.80	18.56	20.08	18.95	20.43	20.80
	6H	19.25	20.67	19.66	21.03	21.42	19.25	20.67	19.66	21.03	21.42
	8H	19.52	20.89	19.95	21.28	21.67	19.52	20.89	19.95	21.28	21.67
	12H	19.76	21.07	20.19	21.45	21.88	19.76	21.07	20.19	21.45	21.88
4H	2H	16.37	17.90	16.77	18.24	18.62	16.37	17.90	16.77	18.24	18.62
	3H	18.68	19.98	19.09	20.37	20.77	18.68	19.98	19.09	20.37	20.77
	4H	19.65	20.84	20.08	21.25	21.68	19.65	20.84	20.08	21.25	21.68
	6H	20.50	21.54	20.95	21.98	22.43	20.50	21.54	20.95	21.98	22.43
	8H	20.84	21.82	21.30	22.26	22.72	20.84	21.82	21.30	22.26	22.72
	12H	21.15	22.04	21.63	22.51	22.98	21.15	22.04	21.63	22.51	22.98
8H	4H	20.06	21.04	20.52	21.48	21.94	20.06	21.04	20.52	21.48	21.94
	6H	21.06	21.89	21.55	22.37	22.84	21.06	21.89	21.55	22.37	22.84
	8H	21.52	22.26	22.02	22.76	23.24	21.52	22.26	22.02	22.76	23.24
	12H	21.95	22.61	22.45	23.10	23.65	21.95	22.61	22.45	23.10	23.65
12H	4H	20.13	21.02	20.61	21.49	21.95	20.13	21.02	20.61	21.49	21.95
	6H	21.17	21.91	21.67	22.41	22.90	21.17	21.91	21.67	22.41	22.90
	8H	21.70	22.36	22.20	22.85	23.40	21.70	22.36	22.20	22.85	23.40