

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: P866784

Luminaire Tested: PRLX-2001-L-930-83L-G-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866784
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-67)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2001-L-930-83L-G-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 5
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

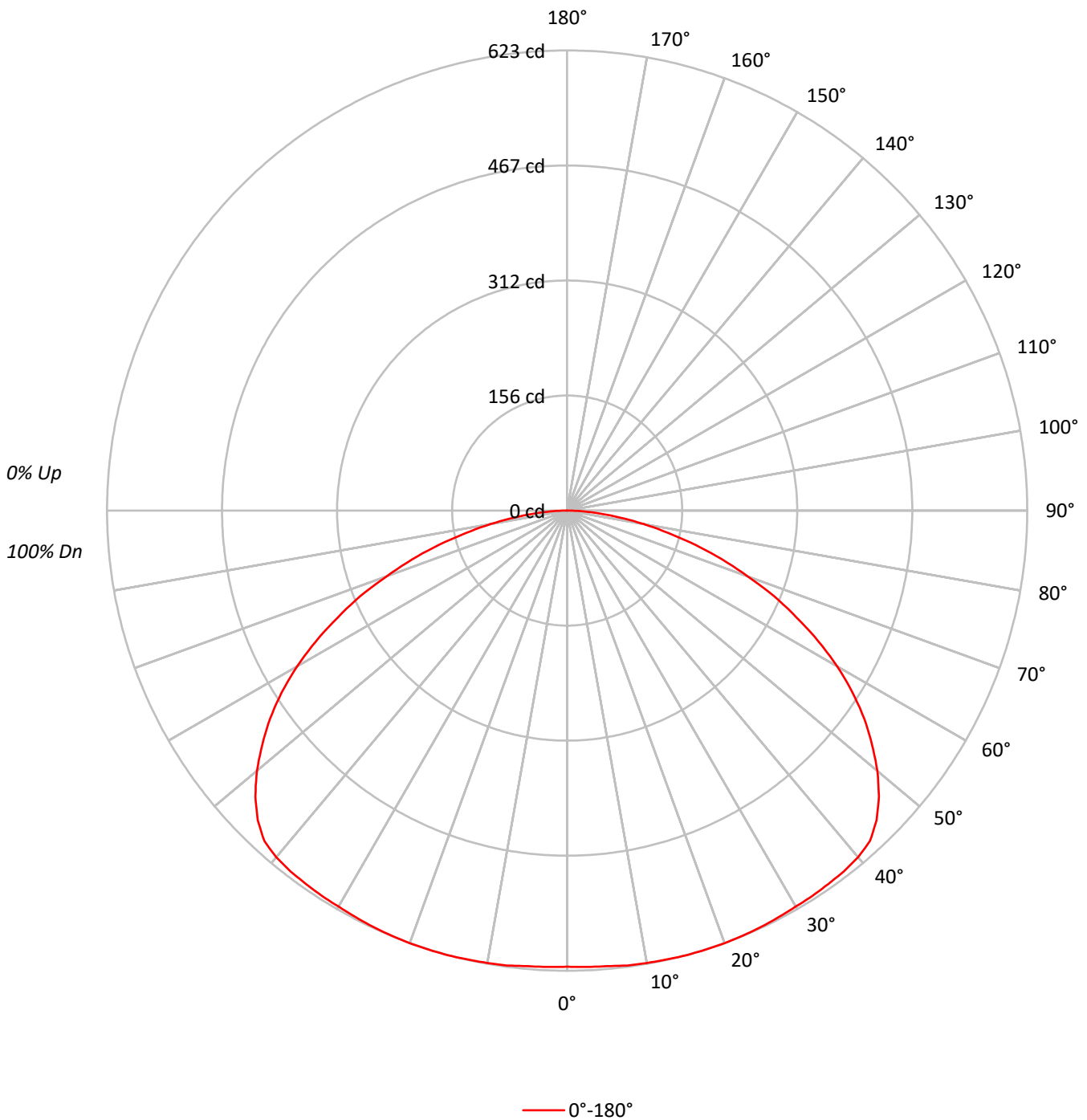
Lumens per Lamp: N/A
Luminaire Lumens: 2382.6 lumens
Efficiency: N/A
Efficacy: 36.9 lumens/watt
Spacing Criteria (0/90/45): 1.53 / 1.53 / 1.64
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 64.5
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	108	103	98	94	105	101	97	93	96	93	90		92	90	87		89	87	84	82
2	98	89	81	75	95	87	80	74	83	78	73		80	75	71		77	73	69	67
3	88	77	68	62	86	75	67	61	72	66	60		70	64	59		67	62	58	55
4	80	68	58	51	78	66	58	51	64	56	50		61	55	49		59	53	49	46
5	73	60	50	43	71	59	50	43	57	49	43		55	48	42		53	47	42	39
6	68	54	44	37	66	53	44	37	51	43	37		49	42	36		47	41	36	34
7	62	48	39	33	61	47	39	32	46	38	32		44	37	32		43	37	32	30
8	58	44	35	29	56	43	35	29	42	34	28		40	33	28		39	33	28	26
9	54	40	31	26	52	39	31	25	38	31	25		37	30	25		36	30	25	23
10	50	37	28	23	49	36	28	23	35	28	23		34	27	23		33	27	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3376
5°	3397
10°	3452
15°	3528
20°	3626
25°	3751
30°	3908
35°	4117
40°	4372
45°	4582
50°	4663
55°	4681
60°	4619
65°	4438
70°	4159
75°	3789
80°	3309
85°	2603

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 55°
 Luminance: 4681 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.2	2.5
10°-20°	176.6	7.4
20°-30°	287.6	12.1
30°-40°	387.3	16.3
40°-50°	454.8	19.1
50°-60°	437.4	18.4
60°-70°	339.3	14.2
70°-80°	190.4	8.0
80°-90°	49.9	2.1
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°	523.5	22.0
0°-40°	910.8	38.2
0°-60°	1803.0	75.7
0°-90°	2382.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2382.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	618	
5°	619	59
15°	623	177
25°	622	288
35°	617	387
45°	593	455
55°	491	437
65°	343	339
75°	179	190
85°	42	50
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	617.6
2.5°	618.3
5°	619.1
7.5°	621.2
10°	621.9
12.5°	622.6
15°	623.3
17.5°	623.3
20°	623.3
22.5°	622.6
25°	621.9
27.5°	620.5
30°	619.1
32.5°	618.3
35°	616.9
37.5°	615.5
40°	612.6
42.5°	606.9
45°	592.6
47.5°	572.6
50°	548.3
52.5°	520.4
55°	491.1
57.5°	458.2
60°	422.5
62.5°	383.9
65°	343.1
67.5°	303.1
70°	260.2
72.5°	220.2
75°	179.4
77.5°	140.1
80°	105.1
82.5°	71.5
85°	41.5
87.5°	17.9
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	17.94	19.66	18.31	19.98	20.29	17.94	19.66	18.31	19.98	20.29
	3H	19.77	21.33	20.14	21.65	22.01	19.77	21.33	20.14	21.65	22.01
	4H	20.42	21.90	20.82	22.24	22.62	20.42	21.90	20.82	22.24	22.62
	6H	20.89	22.25	21.30	22.62	23.01	20.89	22.25	21.30	22.62	23.01
	8H	21.03	22.34	21.45	22.73	23.12	21.03	22.34	21.45	22.73	23.12
	12H	21.12	22.37	21.54	22.75	23.18	21.12	22.37	21.54	22.75	23.18
4H	2H	18.60	20.08	19.00	20.42	20.80	18.60	20.08	19.00	20.42	20.80
	3H	20.64	21.88	21.05	22.27	22.67	20.64	21.88	21.05	22.27	22.67
	4H	21.42	22.54	21.85	22.95	23.39	21.42	22.54	21.85	22.95	23.39
	6H	22.00	22.99	22.45	23.43	23.88	22.00	22.99	22.45	23.43	23.88
	8H	22.19	23.11	22.65	23.55	24.02	22.19	23.11	22.65	23.55	24.02
	12H	22.32	23.15	22.80	23.62	24.09	22.32	23.15	22.80	23.62	24.09
8H	4H	21.73	22.65	22.19	23.09	23.56	21.73	22.65	22.19	23.09	23.56
	6H	22.43	23.20	22.92	23.68	24.16	22.43	23.20	22.92	23.68	24.16
	8H	22.68	23.37	23.19	23.87	24.36	22.68	23.37	23.19	23.87	24.36
	12H	22.87	23.48	23.38	23.97	24.53	22.87	23.48	23.38	23.97	24.53
12H	4H	21.77	22.60	22.24	23.07	23.54	21.77	22.60	22.24	23.07	23.54
	6H	22.48	23.17	22.99	23.68	24.16	22.48	23.17	22.99	23.68	24.16
	8H	22.79	23.40	23.29	23.89	24.45	22.79	23.40	23.29	23.89	24.45