

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: P865620

Luminaire Tested: PRLX-2002-S-930-10L-G-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865620
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2002-S-930-10L-G-U-S-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 2
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

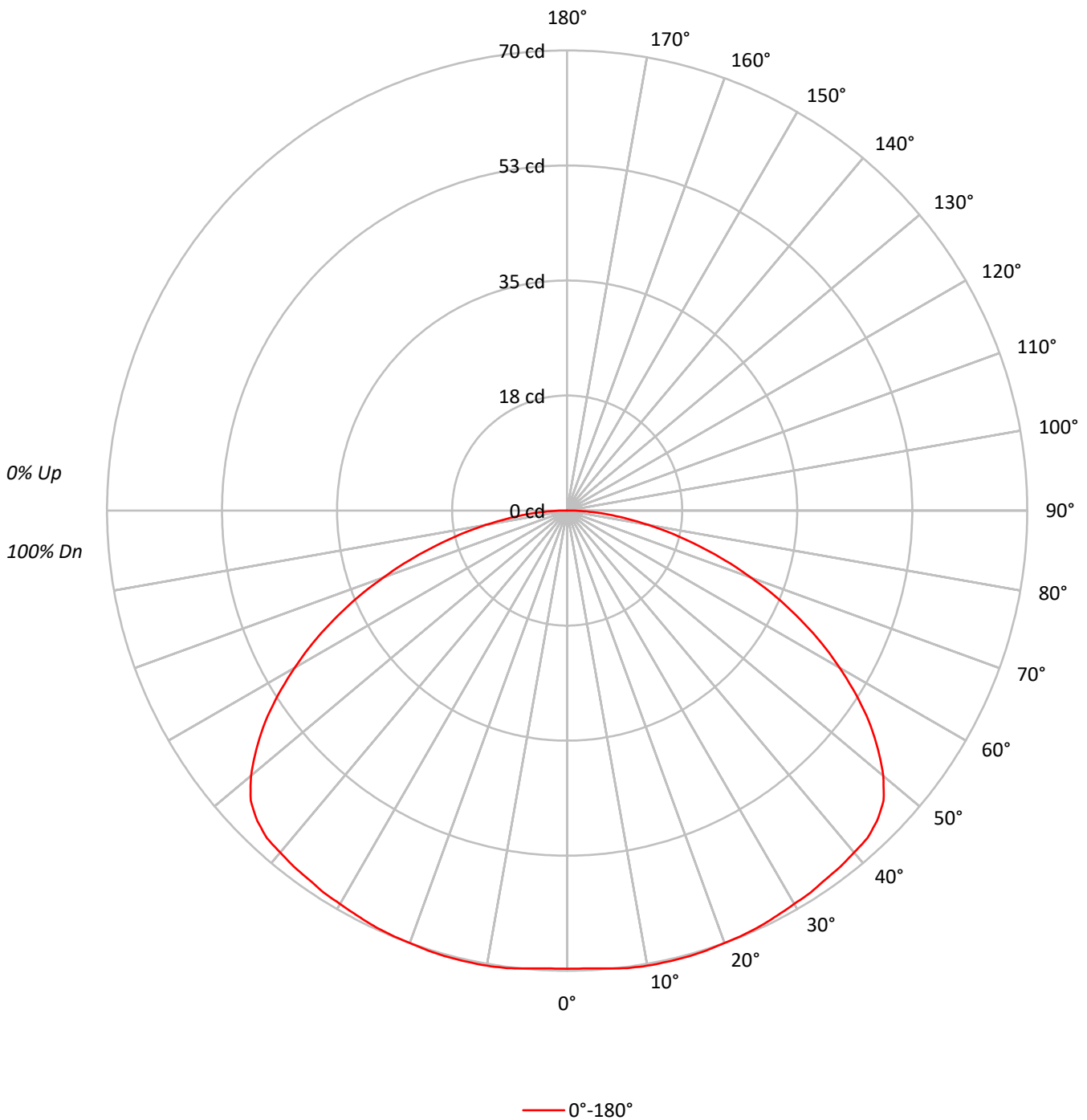
Lumens per Lamp: N/A
Luminaire Lumens: 270.1 lumens
Efficiency: N/A
Efficacy: 25.7 lumens/watt
Spacing Criteria (0/90/45): 1.51 / 1.51 / 1.65
Luminous Opening: Circular (Dia: 0.85' x H: 0')
CIE Type: Direct

Input Watts (W): 10.5
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	108	103	98	94	105	100	96	92	96	93	89		92	89	87		89	86	84	82
2	97	88	81	75	95	87	80	74	83	77	72		80	75	71		77	73	69	67
3	88	77	68	61	86	75	67	61	72	65	59		69	63	58		67	62	57	55
4	80	67	58	51	78	66	57	51	63	56	50		61	54	49		59	53	48	46
5	73	60	50	43	71	59	50	43	56	48	42		54	47	42		52	46	41	39
6	67	53	44	37	65	52	43	37	50	42	37		49	42	36		47	41	36	34
7	62	48	39	32	60	47	38	32	46	38	32		44	37	32		43	36	31	29
8	58	43	35	28	56	43	34	28	41	34	28		40	33	28		39	33	28	26
9	54	40	31	25	52	39	31	25	38	30	25		37	30	25		36	29	25	23
10	50	36	28	23	49	36	28	23	35	28	23		34	27	22		33	27	22	21

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1309
5°	1318
10°	1341
15°	1367
20°	1399
25°	1445
30°	1499
35°	1571
40°	1665
45°	1772
50°	1835
55°	1837
60°	1800
65°	1738
70°	1631
75°	1502
80°	1352
85°	1207

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 1839 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.7	2.5
10°-20°	19.9	7.4
20°-30°	32.2	11.9
30°-40°	43.0	15.9
40°-50°	51.2	19.0
50°-60°	49.9	18.5
60°-70°	38.6	14.3
70°-80°	22.0	8.2
80°-90°	6.4	2.4
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°	58.8	21.8
0°-40°	101.9	37.7
0°-60°	203.0	75.2
0°-90°	270.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	270.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	70	
5°	70	7
15°	70	20
25°	70	32
35°	68	43
45°	67	51
55°	56	50
65°	39	39
75°	21	22
85°	6	6
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	69.7
2.5°	69.7
5°	69.9
7.5°	70.2
10°	70.3
12.5°	70.3
15°	70.3
17.5°	70.2
20°	70.0
22.5°	69.9
25°	69.7
27.5°	69.4
30°	69.1
32.5°	68.9
35°	68.5
37.5°	68.3
40°	67.9
42.5°	67.6
45°	66.7
47.5°	65.3
50°	62.8
52.5°	59.6
55°	56.1
57.5°	52.1
60°	47.9
62.5°	43.6
65°	39.1
67.5°	34.5
70°	29.7
72.5°	25.2
75°	20.7
77.5°	16.5
80°	12.5
82.5°	8.8
85°	5.6
87.5°	2.9
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	14.68	16.40	15.04	16.72	17.03	14.68	16.40	15.04	16.72	17.03
	3H	16.51	18.08	16.89	18.40	18.76	16.51	18.08	16.89	18.40	18.76
	4H	17.18	18.66	17.58	19.01	19.38	17.18	18.66	17.58	19.01	19.38
	6H	17.68	19.05	18.09	19.42	19.81	17.68	19.05	18.09	19.42	19.81
	8H	17.84	19.16	18.26	19.55	19.94	17.84	19.16	18.26	19.55	19.94
	12H	17.96	19.22	18.39	19.60	20.03	17.96	19.22	18.39	19.60	20.03
4H	2H	15.34	16.82	15.74	17.17	17.54	15.34	16.82	15.74	17.17	17.54
	3H	17.38	18.63	17.79	19.03	19.43	17.38	18.63	17.79	19.03	19.43
	4H	18.18	19.32	18.61	19.73	20.16	18.18	19.32	18.61	19.73	20.16
	6H	18.81	19.80	19.26	20.24	20.69	18.81	19.80	19.26	20.24	20.69
	8H	19.02	19.95	19.48	20.39	20.86	19.02	19.95	19.48	20.39	20.86
	12H	19.19	20.03	19.67	20.50	20.97	19.19	20.03	19.67	20.50	20.97
8H	4H	18.51	19.44	18.96	19.88	20.34	18.51	19.44	18.96	19.88	20.34
	6H	19.26	20.03	19.75	20.52	20.99	19.26	20.03	19.75	20.52	20.99
	8H	19.54	20.24	20.05	20.74	21.23	19.54	20.24	20.05	20.74	21.23
	12H	19.79	20.40	20.29	20.89	21.45	19.79	20.40	20.29	20.89	21.45
12H	4H	18.55	19.39	19.03	19.86	20.33	18.55	19.39	19.03	19.86	20.33
	6H	19.32	20.02	19.82	20.52	21.00	19.32	20.02	19.82	20.52	21.00
	8H	19.66	20.28	20.17	20.77	21.33	19.66	20.28	20.17	20.77	21.33