

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: P867016

Luminaire Tested: PRLX-2002-L-930-32L-G-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867016
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-71)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2002-L-930-32L-G-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 2
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

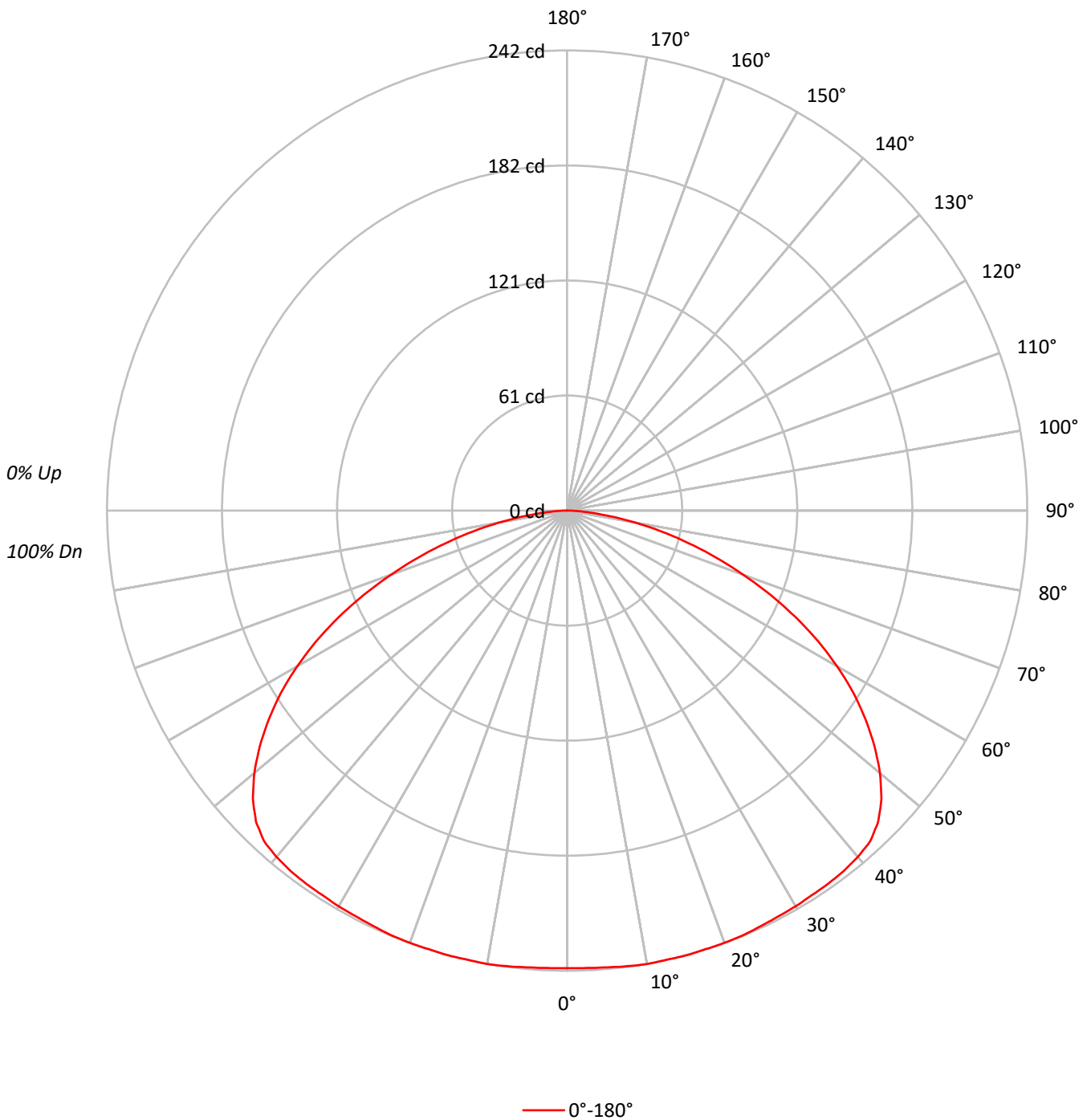
Lumens per Lamp: N/A
Luminaire Lumens: 918.1 lumens
Efficiency: N/A
Efficacy: 35.2 lumens/watt
Spacing Criteria (0/90/45): 1.52 / 1.52 / 1.65
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

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	108	103	99	95	105	101	97	93	97	93	90		93	90	87		89	87	85	83
2	98	89	82	76	95	87	81	75	84	78	73		80	76	71		77	73	70	68
3	89	77	69	62	86	76	68	61	73	66	60		70	64	59		67	62	58	56
4	81	68	59	52	78	67	58	51	64	56	51		62	55	50		59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43		55	48	43		53	47	42	40
6	68	54	44	38	66	53	44	37	51	43	37		49	42	37		48	41	36	34
7	63	48	39	33	61	48	39	33	46	38	32		44	37	32		43	37	32	30
8	58	44	35	29	56	43	35	29	42	34	29		41	34	28		39	33	28	26
9	54	40	32	26	53	39	31	26	38	31	26		37	30	25		36	30	25	23
10	50	37	29	23	49	36	28	23	35	28	23		34	28	23		33	27	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1187
5°	1194
10°	1213
15°	1237
20°	1270
25°	1313
30°	1369
35°	1443
40°	1532
45°	1615
50°	1649
55°	1648
60°	1618
65°	1546
70°	1419
75°	1260
80°	1029
85°	691

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 1652 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.1	2.5
10°-20°	68.6	7.5
20°-30°	111.6	12.2
30°-40°	150.3	16.4
40°-50°	177.5	19.3
50°-60°	170.8	18.6
60°-70°	130.6	14.2
70°-80°	70.1	7.6
80°-90°	15.6	1.7
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°	203.2	22.1
0°-40°	353.5	38.5
0°-60°	701.8	76.4
0°-90°	918.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	918.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	241	
5°	241	23
15°	242	69
25°	241	112
35°	240	150
45°	231	177
55°	192	171
65°	132	131
75°	66	70
85°	12	16
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	240.6
2.5°	240.8
5°	241.1
7.5°	241.7
10°	242.2
12.5°	241.9
15°	242.2
17.5°	241.9
20°	241.9
22.5°	241.7
25°	241.1
27.5°	240.6
30°	240.3
32.5°	239.7
35°	239.5
37.5°	238.9
40°	237.8
42.5°	235.9
45°	231.4
47.5°	224.2
50°	214.8
52.5°	203.8
55°	191.6
57.5°	178.6
60°	164.0
62.5°	148.8
65°	132.4
67.5°	115.6
70°	98.4
72.5°	82.1
75°	66.1
77.5°	50.6
80°	36.2
82.5°	22.9
85°	12.2
87.5°	4.1
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	14.36	16.07	14.72	16.39	16.70	14.36	16.07	14.72	16.39	16.70
	3H	16.11	17.67	16.49	17.99	18.35	16.11	17.67	16.49	17.99	18.35
	4H	16.72	18.18	17.11	18.53	18.90	16.72	18.18	17.11	18.53	18.90
	6H	17.11	18.47	17.52	18.84	19.23	17.11	18.47	17.52	18.84	19.23
	8H	17.21	18.51	17.64	18.90	19.30	17.21	18.51	17.64	18.90	19.30
	12H	17.26	18.51	17.69	18.89	19.32	17.26	18.51	17.69	18.89	19.32
4H	2H	15.01	16.47	15.40	16.82	17.19	15.01	16.47	15.40	16.82	17.19
	3H	16.96	18.19	17.37	18.59	18.99	16.96	18.19	17.37	18.59	18.99
	4H	17.68	18.80	18.11	19.21	19.64	17.68	18.80	18.11	19.21	19.64
	6H	18.19	19.17	18.64	19.60	20.06	18.19	19.17	18.64	19.60	20.06
	8H	18.32	19.24	18.78	19.68	20.14	18.32	19.24	18.78	19.68	20.14
	12H	18.41	19.23	18.88	19.70	20.17	18.41	19.23	18.88	19.70	20.17
8H	4H	17.97	18.88	18.43	19.32	19.79	17.97	18.88	18.43	19.32	19.79
	6H	18.57	19.33	19.06	19.81	20.29	18.57	19.33	19.06	19.81	20.29
	8H	18.75	19.43	19.26	19.94	20.42	18.75	19.43	19.26	19.94	20.42
	12H	18.88	19.48	19.38	19.97	20.53	18.88	19.48	19.38	19.97	20.53
12H	4H	17.99	18.82	18.47	19.29	19.76	17.99	18.82	18.47	19.29	19.76
	6H	18.60	19.29	19.11	19.79	20.27	18.60	19.29	19.11	19.79	20.27
	8H	18.84	19.44	19.34	19.93	20.48	18.84	19.44	19.34	19.93	20.48