

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: P866236

Luminaire Tested: PRLX-2002-M-930-35L-G-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866236
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-41)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-M-930-35L-G-U-S-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 4
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

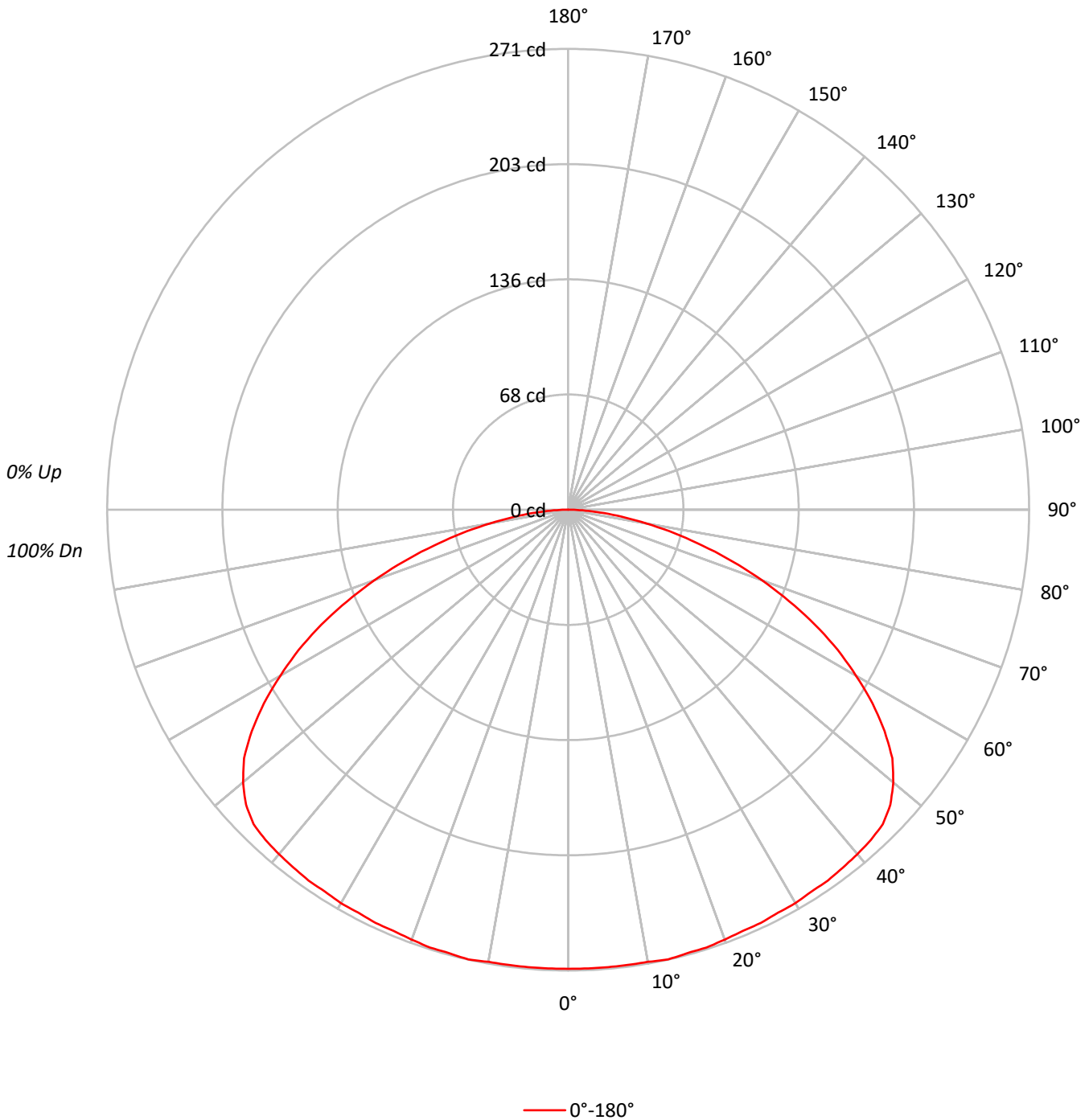
Lumens per Lamp: N/A
Luminaire Lumens: 1063.5 lumens
Efficiency: N/A
Efficacy: 35.4 lumens/watt
Spacing Criteria (0/90/45): 1.51 / 1.51 / 1.67
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 30
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	98	94	105	100	96	92	96	93	90		92	89	87		89	86	84	82
2	97	88	81	75	95	86	80	74	83	77	72		80	75	71		76	72	69	67
3	88	77	68	61	85	75	67	60	72	65	59		69	63	58		67	61	57	55
4	80	67	58	51	78	66	57	50	63	56	49		61	54	49		59	53	48	46
5	73	59	50	43	71	58	49	42	56	48	42		54	47	41		52	46	41	39
6	67	53	43	37	65	52	43	37	50	42	36		48	41	36		47	40	35	33
7	62	48	38	32	60	47	38	32	45	37	32		44	37	31		42	36	31	29
8	57	43	34	28	56	42	34	28	41	33	28		40	33	28		39	32	27	25
9	53	39	31	25	52	39	31	25	38	30	25		36	30	25		35	29	24	23
10	50	36	28	22	49	36	28	22	35	27	22		34	27	22		33	26	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2148
5°	2156
10°	2181
15°	2224
20°	2277
25°	2353
30°	2455
35°	2585
40°	2746
45°	2943
50°	3088
55°	3150
60°	3111
65°	3014
70°	2815
75°	2517
80°	2130
85°	1698

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 55°
 Luminance: 3150 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.8	2.4
10°-20°	76.5	7.2
20°-30°	124.0	11.7
30°-40°	167.0	15.7
40°-50°	201.0	18.9
50°-60°	201.8	19.0
60°-70°	157.8	14.8
70°-80°	87.3	8.2
80°-90°	22.3	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°	226.3	21.3
0°-40°	393.3	37.0
0°-60°	796.1	74.9
0°-90°	1063.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1063.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	270	
5°	270	26
15°	270	77
25°	268	124
35°	266	167
45°	262	201
55°	227	202
65°	160	158
75°	82	87
85°	19	22
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	270.0
2.5°	270.0
5°	270.0
7.5°	270.0
10°	270.0
12.5°	270.9
15°	270.0
17.5°	270.0
20°	269.0
22.5°	268.1
25°	268.1
27.5°	267.2
30°	267.2
32.5°	266.2
35°	266.2
37.5°	265.3
40°	264.4
42.5°	263.4
45°	261.6
47.5°	256.9
50°	249.5
52.5°	240.2
55°	227.1
57.5°	212.2
60°	195.5
62.5°	178.7
65°	160.1
67.5°	140.6
70°	121.0
72.5°	101.5
75°	81.9
77.5°	64.2
80°	46.5
82.5°	31.6
85°	18.6
87.5°	8.4
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	16.68	18.41	17.04	18.73	19.04	16.68	18.41	17.04	18.73	19.04
	3H	18.51	20.09	18.89	20.41	20.77	18.51	20.09	18.89	20.41	20.77
	4H	19.16	20.64	19.55	20.99	21.36	19.16	20.64	19.55	20.99	21.36
	6H	19.60	20.98	20.01	21.34	21.73	19.60	20.98	20.01	21.34	21.73
	8H	19.73	21.05	20.15	21.44	21.84	19.73	21.05	20.15	21.44	21.84
	12H	19.81	21.08	20.24	21.46	21.89	19.81	21.08	20.24	21.46	21.89
4H	2H	17.35	18.84	17.75	19.19	19.56	17.35	18.84	17.75	19.19	19.56
	3H	19.39	20.64	19.80	21.04	21.44	19.39	20.64	19.80	21.04	21.44
	4H	20.15	21.29	20.58	21.70	22.13	20.15	21.29	20.58	21.70	22.13
	6H	20.71	21.71	21.16	22.15	22.60	20.71	21.71	21.16	22.15	22.60
	8H	20.88	21.82	21.34	22.26	22.72	20.88	21.82	21.34	22.26	22.72
	12H	21.00	21.85	21.48	22.32	22.79	21.00	21.85	21.48	22.32	22.79
8H	4H	20.46	21.39	20.92	21.83	22.30	20.46	21.39	20.92	21.83	22.30
	6H	21.12	21.90	21.61	22.39	22.86	21.12	21.90	21.61	22.39	22.86
	8H	21.36	22.06	21.86	22.56	23.04	21.36	22.06	21.86	22.56	23.04
	12H	21.54	22.16	22.04	22.65	23.20	21.54	22.16	22.04	22.65	23.20
12H	4H	20.49	21.34	20.97	21.81	22.28	20.49	21.34	20.97	21.81	22.28
	6H	21.17	21.87	21.68	22.38	22.86	21.17	21.87	21.68	22.38	22.86
	8H	21.46	22.08	21.96	22.57	23.12	21.46	22.08	21.96	22.57	23.12