

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: P866356

Luminaire Tested: PRLX-2002-M-940-25L-G-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866356
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-940-25L-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 3
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

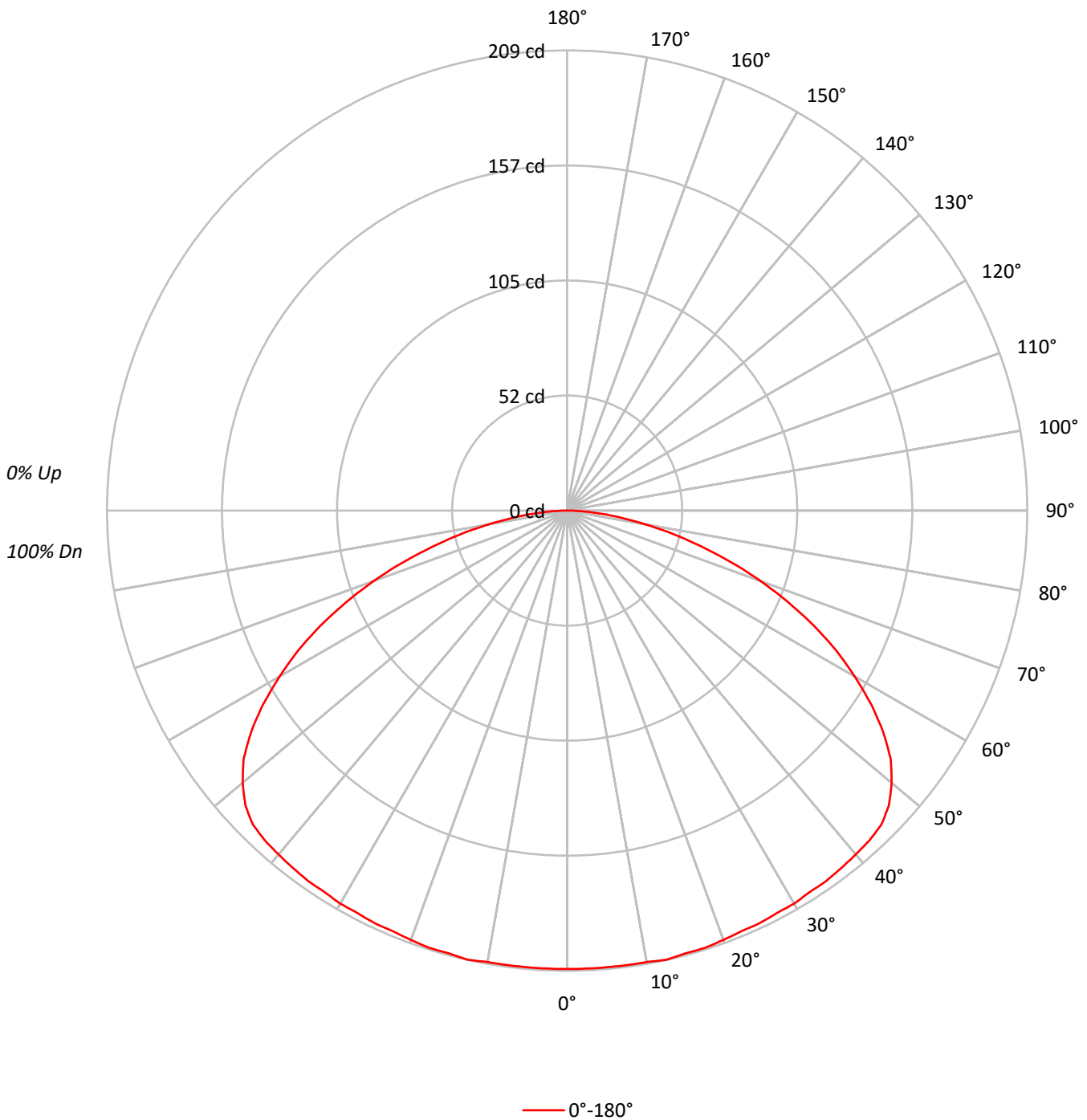
Lumens per Lamp: N/A
Luminaire Lumens: 820.3 lumens
Efficiency: N/A
Efficacy: 37.8 lumens/watt
Spacing Criteria (0/90/45): 1.51 / 1.51 / 1.67
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 21.7
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°	1656
5°	1663
10°	1682
15°	1715
20°	1757
25°	1815
30°	1893
35°	1994
40°	2118
45°	2270
50°	2381
55°	2430
60°	2399
65°	2325
70°	2170
75°	1943
80°	1645
85°	1314

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 55°
 Luminance: 2430 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.9	2.4
10°-20°	59.0	7.2
20°-30°	95.6	11.7
30°-40°	128.8	15.7
40°-50°	155.0	18.9
50°-60°	155.7	19.0
60°-70°	121.7	14.8
70°-80°	67.4	8.2
80°-90°	17.2	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°	174.5	21.3
0°-40°	303.3	37.0
0°-60°	614.0	74.9
0°-90°	820.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	820.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	208	
5°	208	20
15°	208	59
25°	207	96
35°	205	129
45°	202	155
55°	175	156
65°	124	122
75°	63	67
85°	14	17
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	208.2
2.5°	208.2
5°	208.2
7.5°	208.2
10°	208.2
12.5°	208.9
15°	208.2
17.5°	208.2
20°	207.5
22.5°	206.8
25°	206.8
27.5°	206.1
30°	206.1
32.5°	205.3
35°	205.3
37.5°	204.6
40°	203.9
42.5°	203.2
45°	201.8
47.5°	198.2
50°	192.4
52.5°	185.2
55°	175.2
57.5°	163.7
60°	150.8
62.5°	137.9
65°	123.5
67.5°	108.4
70°	93.3
72.5°	78.3
75°	63.2
77.5°	49.5
80°	35.9
82.5°	24.4
85°	14.4
87.5°	6.5
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	15.78	17.51	16.14	17.83	18.14	15.78	17.51	16.14	17.83	18.14
	3H	17.61	19.19	17.99	19.51	19.87	17.61	19.19	17.99	19.51	19.87
	4H	18.25	19.74	18.65	20.09	20.46	18.25	19.74	18.65	20.09	20.46
	6H	18.70	20.08	19.11	20.44	20.83	18.70	20.08	19.11	20.44	20.83
	8H	18.83	20.15	19.25	20.54	20.93	18.83	20.15	19.25	20.54	20.93
	12H	18.91	20.18	19.34	20.56	20.99	18.91	20.18	19.34	20.56	20.99
4H	2H	16.45	17.94	16.85	18.29	18.66	16.45	17.94	16.85	18.29	18.66
	3H	18.49	19.74	18.90	20.14	20.54	18.49	19.74	18.90	20.14	20.54
	4H	19.25	20.39	19.68	20.80	21.23	19.25	20.39	19.68	20.80	21.23
	6H	19.81	20.81	20.26	21.25	21.70	19.81	20.81	20.26	21.25	21.70
	8H	19.98	20.91	20.44	21.35	21.82	19.98	20.91	20.44	21.35	21.82
	12H	20.10	20.94	20.58	21.42	21.88	20.10	20.94	20.58	21.42	21.88
8H	4H	19.56	20.49	20.01	20.93	21.39	19.56	20.49	20.01	20.93	21.39
	6H	20.22	21.00	20.71	21.49	21.96	20.22	21.00	20.71	21.49	21.96
	8H	20.46	21.15	20.96	21.66	22.14	20.46	21.15	20.96	21.66	22.14
	12H	20.64	21.26	21.14	21.75	22.30	20.64	21.26	21.14	21.75	22.30
12H	4H	19.59	20.43	20.07	20.91	21.37	19.59	20.43	20.07	20.91	21.37
	6H	20.27	20.97	20.78	21.47	21.96	20.27	20.97	20.78	21.47	21.96
	8H	20.56	21.18	21.06	21.66	22.22	20.56	21.18	21.06	21.66	22.22