

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: P866396

Luminaire Tested: PRLX-2002-M-940-75L-G-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866396
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-940-75L-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 8
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

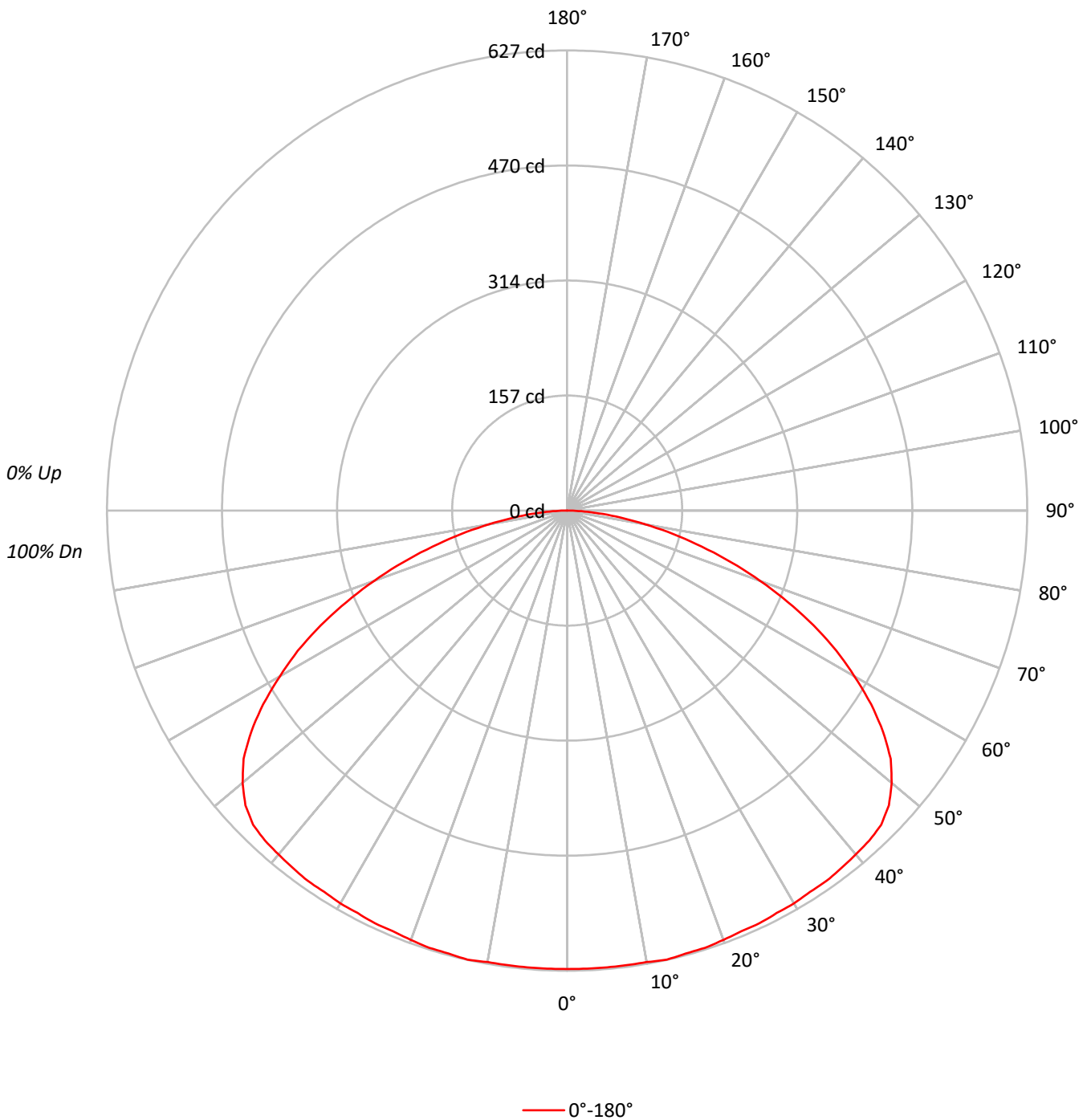
Lumens per Lamp: N/A
Luminaire Lumens: 2460.9 lumens
Efficiency: N/A
Efficacy: 35.3 lumens/watt
Spacing Criteria (0/90/45): 1.51 / 1.51 / 1.67
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 69.7
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

TEST NUMBER: P866396

CATALOG NUMBER: PRLX-2002-M-940-75L-G-U-S-X-X-BLAK-X

Luminous Intensity Polar Plot





TEST NUMBER: P866396

CATALOG NUMBER: PRLX-2002-M-940-75L-G-U-S-X-X-BLAK-X

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°	4970
5°	4989
10°	5047
15°	5145
20°	5270
25°	5446
30°	5679
35°	5983
40°	6353
45°	6810
50°	7145
55°	7290
60°	7197
65°	6975
70°	6513
75°	5828
80°	4934
85°	3934

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 55°
 Luminance: 7290 cd/sqm

TEST NUMBER: P866396

CATALOG NUMBER: PRLX-2002-M-940-75L-G-U-S-X-X-BLAK-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.6	2.4
10°-20°	177.1	7.2
20°-30°	286.8	11.7
30°-40°	386.4	15.7
40°-50°	465.1	18.9
50°-60°	467.1	19.0
60°-70°	365.1	14.8
70°-80°	202.1	8.2
80°-90°	51.6	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°	523.6	21.3
0°-40°	910.0	37.0
0°-60°	1842.1	74.9
0°-90°	2460.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2460.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	625	
5°	625	60
15°	625	177
25°	620	287
35°	616	386
45°	605	465
55°	526	467
65°	370	365
75°	190	202
85°	43	52
90°	0	

TEST NUMBER: P866396

CATALOG NUMBER: PRLX-2002-M-940-75L-G-U-S-X-X-BLAK-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	624.7
2.5°	624.7
5°	624.7
7.5°	624.7
10°	624.7
12.5°	626.8
15°	624.7
17.5°	624.7
20°	622.5
22.5°	620.4
25°	620.4
27.5°	618.2
30°	618.2
32.5°	616.0
35°	616.0
37.5°	613.9
40°	611.7
42.5°	609.6
45°	605.3
47.5°	594.5
50°	577.3
52.5°	555.7
55°	525.6
57.5°	491.1
60°	452.3
62.5°	413.6
65°	370.5
67.5°	325.3
70°	280.0
72.5°	234.8
75°	189.6
77.5°	148.6
80°	107.7
82.5°	73.2
85°	43.1
87.5°	19.4
90°	0.0



TEST NUMBER: P866396
 CATALOG NUMBER: PRLX-2002-M-940-75L-G-U-S-X-X-BLAK-X

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	19.59	21.33	19.96	21.64	21.96	19.59	21.33	19.96	21.64	21.96
	3H	21.43	23.00	21.80	23.33	23.69	21.43	23.00	21.80	23.33	23.69
	4H	22.07	23.56	22.47	23.91	24.28	22.07	23.56	22.47	23.91	24.28
	6H	22.51	23.90	22.92	24.26	24.65	22.51	23.90	22.92	24.26	24.65
	8H	22.64	23.97	23.07	24.35	24.75	22.64	23.97	23.07	24.35	24.75
	12H	22.73	23.99	23.15	24.38	24.80	22.73	23.99	23.15	24.38	24.80
4H	2H	20.27	21.76	20.66	22.10	22.47	20.27	21.76	20.66	22.10	22.47
	3H	22.31	23.56	22.71	23.95	24.35	22.31	23.56	22.71	23.95	24.35
	4H	23.07	24.20	23.50	24.62	25.05	23.07	24.20	23.50	24.62	25.05
	6H	23.63	24.62	24.08	25.06	25.51	23.63	24.62	24.08	25.06	25.51
	8H	23.80	24.73	24.26	25.17	25.64	23.80	24.73	24.26	25.17	25.64
	12H	23.92	24.76	24.40	25.23	25.70	23.92	24.76	24.40	25.23	25.70
8H	4H	23.37	24.31	23.83	24.75	25.21	23.37	24.31	23.83	24.75	25.21
	6H	24.04	24.82	24.53	25.30	25.78	24.04	24.82	24.53	25.30	25.78
	8H	24.27	24.97	24.78	25.48	25.96	24.27	24.97	24.78	25.48	25.96
	12H	24.46	25.07	24.96	25.56	26.12	24.46	25.07	24.96	25.56	26.12
12H	4H	23.41	24.25	23.89	24.72	25.19	23.41	24.25	23.89	24.72	25.19
	6H	24.09	24.79	24.59	25.29	25.78	24.09	24.79	24.59	25.29	25.78
	8H	24.38	24.99	24.88	25.48	26.04	24.38	24.99	24.88	25.48	26.04