

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: P866976

Luminaire Tested: PRLX-2002-L-927-83L-G-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866976
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: Prenalux
Catalog Number: PRLX-2002-L-927-83L-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 5
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

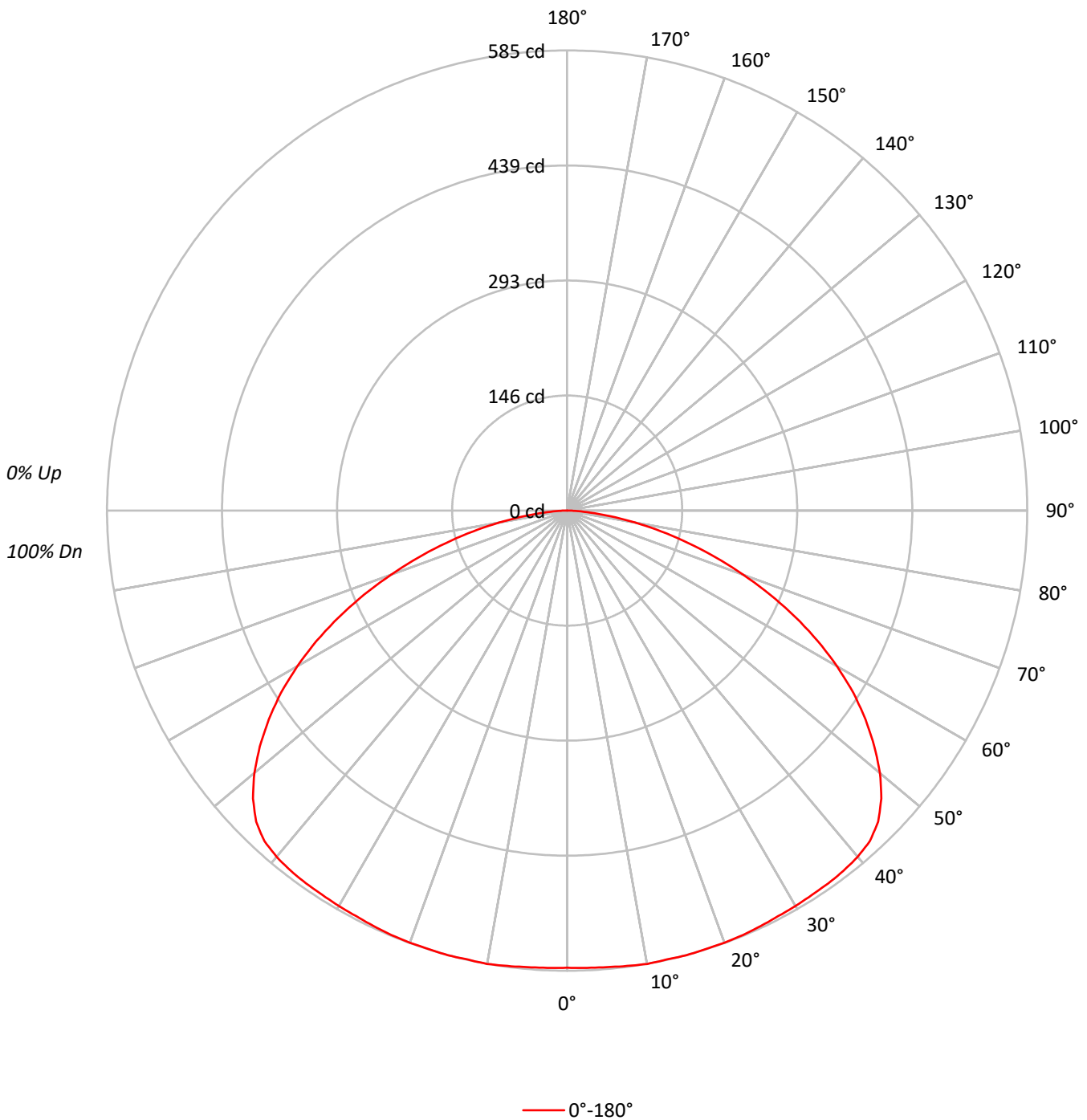
Lumens per Lamp: N/A
Luminaire Lumens: 2218.4 lumens
Efficiency: N/A
Efficacy: 34.4 lumens/watt
Spacing Criteria (0/90/45): 1.52 / 1.52 / 1.65
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 64.5
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: P866976

CATALOG NUMBER: PRLX-2002-L-927-83L-G-X-X-BLAK-X

Luminous Intensity Polar Plot





TEST NUMBER: P866976

CATALOG NUMBER: PRLX-2002-L-927-83L-G-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	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°	2868
5°	2885
10°	2932
15°	2990
20°	3069
25°	3172
30°	3308
35°	3485
40°	3701
45°	3902
50°	3984
55°	3983
60°	3910
65°	3736
70°	3430
75°	3044
80°	2486
85°	1664

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 3991 cd/sqm

TEST NUMBER: P866976

CATALOG NUMBER: PRLX-2002-L-927-83L-G-X-X-BLAK-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.7	2.5
10°-20°	165.8	7.5
20°-30°	269.6	12.2
30°-40°	363.1	16.4
40°-50°	428.8	19.3
50°-60°	412.7	18.6
60°-70°	315.6	14.2
70°-80°	169.5	7.6
80°-90°	37.7	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°	491.1	22.1
0°-40°	854.2	38.5
0°-60°	1695.7	76.4
0°-90°	2218.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2218.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	581	
5°	583	56
15°	585	166
25°	583	270
35°	579	363
45°	559	429
55°	463	413
65°	320	316
75°	160	169
85°	29	38
90°	0	

TEST NUMBER: P866976

CATALOG NUMBER: PRLX-2002-L-927-83L-G-X-X-BLAK-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	581.2
2.5°	581.9
5°	582.6
7.5°	583.9
10°	585.3
12.5°	584.6
15°	585.3
17.5°	584.6
20°	584.6
22.5°	583.9
25°	582.6
27.5°	581.2
30°	580.6
32.5°	579.2
35°	578.6
37.5°	577.2
40°	574.6
42.5°	569.9
45°	559.2
47.5°	541.8
50°	519.1
52.5°	492.4
55°	463.0
57.5°	431.6
60°	396.2
62.5°	359.4
65°	320.0
67.5°	279.3
70°	237.8
72.5°	198.4
75°	159.7
77.5°	122.3
80°	87.5
82.5°	55.5
85°	29.4
87.5°	10.0
90°	0.0



TEST NUMBER: P866976
 CATALOG NUMBER: PRLX-2002-L-927-83L-G-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	17.42	19.14	17.79	19.45	19.77	17.42	19.14	17.79	19.45	19.77
	3H	19.18	20.73	19.55	21.06	21.41	19.18	20.73	19.55	21.06	21.41
	4H	19.78	21.25	20.18	21.60	21.97	19.78	21.25	20.18	21.60	21.97
	6H	20.18	21.54	20.59	21.90	22.29	20.18	21.54	20.59	21.90	22.29
	8H	20.28	21.58	20.70	21.97	22.37	20.28	21.58	20.70	21.97	22.37
	12H	20.33	21.58	20.76	21.96	22.39	20.33	21.58	20.76	21.96	22.39
4H	2H	18.07	19.54	18.47	19.88	20.26	18.07	19.54	18.47	19.88	20.26
	3H	20.03	21.26	20.43	21.65	22.05	20.03	21.26	20.43	21.65	22.05
	4H	20.75	21.86	21.18	22.28	22.71	20.75	21.86	21.18	22.28	22.71
	6H	21.26	22.23	21.71	22.67	23.12	21.26	22.23	21.71	22.67	23.12
	8H	21.39	22.30	21.85	22.75	23.21	21.39	22.30	21.85	22.75	23.21
	12H	21.47	22.29	21.95	22.77	23.24	21.47	22.29	21.95	22.77	23.24
8H	4H	21.03	21.95	21.49	22.39	22.85	21.03	21.95	21.49	22.39	22.85
	6H	21.63	22.39	22.13	22.88	23.35	21.63	22.39	22.13	22.88	23.35
	8H	21.82	22.50	22.33	23.01	23.49	21.82	22.50	22.33	23.01	23.49
	12H	21.95	22.55	22.45	23.04	23.60	21.95	22.55	22.45	23.04	23.60
12H	4H	21.06	21.88	21.54	22.36	22.82	21.06	21.88	21.54	22.36	22.82
	6H	21.67	22.35	22.18	22.86	23.34	21.67	22.35	22.18	22.86	23.34
	8H	21.90	22.50	22.41	22.99	23.55	21.90	22.50	22.41	22.99	23.55