

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: P866248

Luminaire Tested: PRLX-2002-M-930-45L-L-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866248
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-53)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-M-930-45L-L-U-S-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 5
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

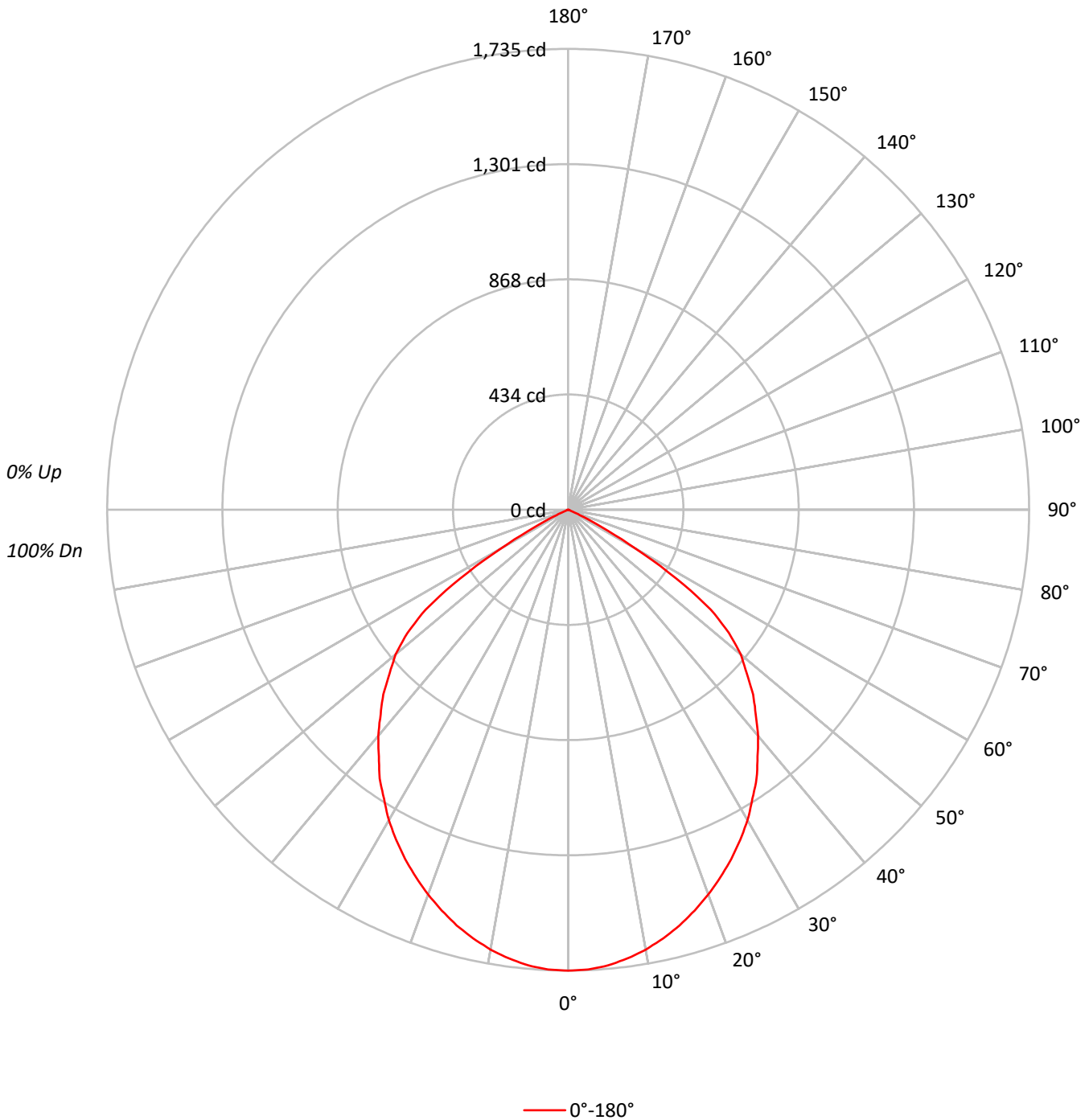
Lumens per Lamp: N/A
Luminaire Lumens: 3453.0 lumens
Efficiency: N/A
Efficacy: 89.0 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.27
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 38.8
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

TEST NUMBER: P866248

CATALOG NUMBER: PRLX-2002-M-930-45L-L-U-S-X-X-BLAK-X

Luminous Intensity Polar Plot





TEST NUMBER: P866248

CATALOG NUMBER: PRLX-2002-M-930-45L-L-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	112	108	105	102	109	106	103	100	102	99	97		98	96	94		95	93	92	90
2	104	97	92	88	101	96	91	87	92	88	85		89	86	83		86	83	81	79
3	96	88	81	76	94	86	80	75	83	78	74		81	76	73		78	75	71	69
4	89	79	72	66	87	78	71	66	75	69	65		73	68	64		71	67	63	61
5	83	71	64	58	81	70	63	58	68	62	57		67	61	57		65	60	56	54
6	77	65	57	51	75	64	57	51	62	56	51		61	55	50		59	54	50	48
7	71	59	51	46	70	58	51	46	57	50	45		56	50	45		54	49	45	43
8	67	54	47	41	65	54	46	41	52	46	41		51	45	41		50	45	41	39
9	62	50	43	37	61	49	42	37	48	42	37		47	41	37		46	41	37	35
10	59	46	39	34	57	46	39	34	45	38	34		44	38	34		43	38	34	32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	13806
5°	13755
10°	13585
15°	13347
20°	13051
25°	12744
30°	12402
35°	12007
40°	11548
45°	11069
50°	10488
55°	9081
60°	4646
65°	902
70°	84
75°	111
80°	110
85°	110

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 11069 cd/sqm

TEST NUMBER: P866248

CATALOG NUMBER: PRLX-2002-M-930-45L-L-U-S-X-X-BLAK-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.1	4.7
10°-20°	456.3	13.2
20°-30°	668.1	19.3
30°-40°	771.0	22.3
40°-50°	756.0	21.9
50°-60°	549.3	15.9
60°-70°	84.2	2.4
70°-80°	3.3	0.1
80°-90°	1.6	0.0
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°	1287.5	37.3
0°-40°	2058.5	59.6
0°-60°	3363.8	97.4
0°-90°	3453.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3453.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1735	
5°	1722	163
15°	1620	456
25°	1452	668
35°	1236	771
45°	984	756
55°	655	549
65°	48	84
75°	4	3
85°	1	2
90°	0	

TEST NUMBER: P866248

CATALOG NUMBER: PRLX-2002-M-930-45L-L-U-S-X-X-BLAK-X

CANDELA DISTRIBUTION (FULL):

0°	
0°	1735.4
2.5°	1733.0
5°	1722.3
7.5°	1704.3
10°	1681.6
12.5°	1652.8
15°	1620.5
17.5°	1582.2
20°	1541.5
22.5°	1497.3
25°	1451.8
27.5°	1401.5
30°	1350.0
32.5°	1290.2
35°	1236.3
37.5°	1170.5
40°	1111.9
42.5°	1044.8
45°	983.8
47.5°	910.8
50°	847.4
52.5°	762.4
55°	654.7
57.5°	483.5
60°	292.0
62.5°	138.8
65°	47.9
67.5°	12.0
70°	3.6
72.5°	3.6
75°	3.6
77.5°	2.4
80°	2.4
82.5°	2.4
85°	1.2
87.5°	1.2
90°	0.0

TEST NUMBER: P866248

CATALOG NUMBER: PRLX-2002-M-930-45L-L-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	18.55	19.97	18.92	20.28	20.60	18.55	19.97	18.92	20.28	20.60
	3H	18.44	19.68	18.82	20.01	20.37	18.44	19.68	18.82	20.01	20.37
	4H	18.37	19.52	18.77	19.87	20.26	18.37	19.52	18.77	19.87	20.26
	6H	18.30	19.36	18.71	19.72	20.12	18.30	19.36	18.71	19.72	20.12
	8H	18.26	19.26	18.69	19.65	20.05	18.26	19.26	18.69	19.65	20.05
	12H	18.22	19.18	18.65	19.56	19.99	18.22	19.18	18.65	19.56	19.99
4H	2H	18.39	19.55	18.79	19.90	20.28	18.39	19.55	18.79	19.90	20.28
	3H	18.28	19.20	18.69	19.61	20.01	18.28	19.20	18.69	19.61	20.01
	4H	18.20	19.02	18.63	19.44	19.88	18.20	19.02	18.63	19.44	19.88
	6H	18.12	18.83	18.58	19.27	19.74	18.12	18.83	18.58	19.27	19.74
	8H	18.07	18.73	18.53	19.17	19.64	18.07	18.73	18.53	19.17	19.64
	12H	18.02	18.61	18.51	19.09	19.56	18.02	18.61	18.51	19.09	19.56
8H	4H	18.07	18.73	18.53	19.17	19.64	18.07	18.73	18.53	19.17	19.64
	6H	17.96	18.51	18.46	19.00	19.48	17.96	18.51	18.46	19.00	19.48
	8H	17.90	18.39	18.42	18.91	19.40	17.90	18.39	18.42	18.91	19.40
	12H	17.85	18.29	18.36	18.79	19.36	17.85	18.29	18.36	18.79	19.36
12H	4H	18.02	18.61	18.51	19.09	19.56	18.02	18.61	18.51	19.09	19.56
	6H	17.90	18.39	18.42	18.91	19.40	17.90	18.39	18.42	18.91	19.40
	8H	17.85	18.29	18.36	18.79	19.36	17.85	18.29	18.36	18.79	19.36