

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: P865875

Luminaire Tested: PRLX-2004-S-940-15L-L-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865875
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-23)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2004-S-940-15L-L-U-S-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, FLAT LENS, BELL WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 3
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

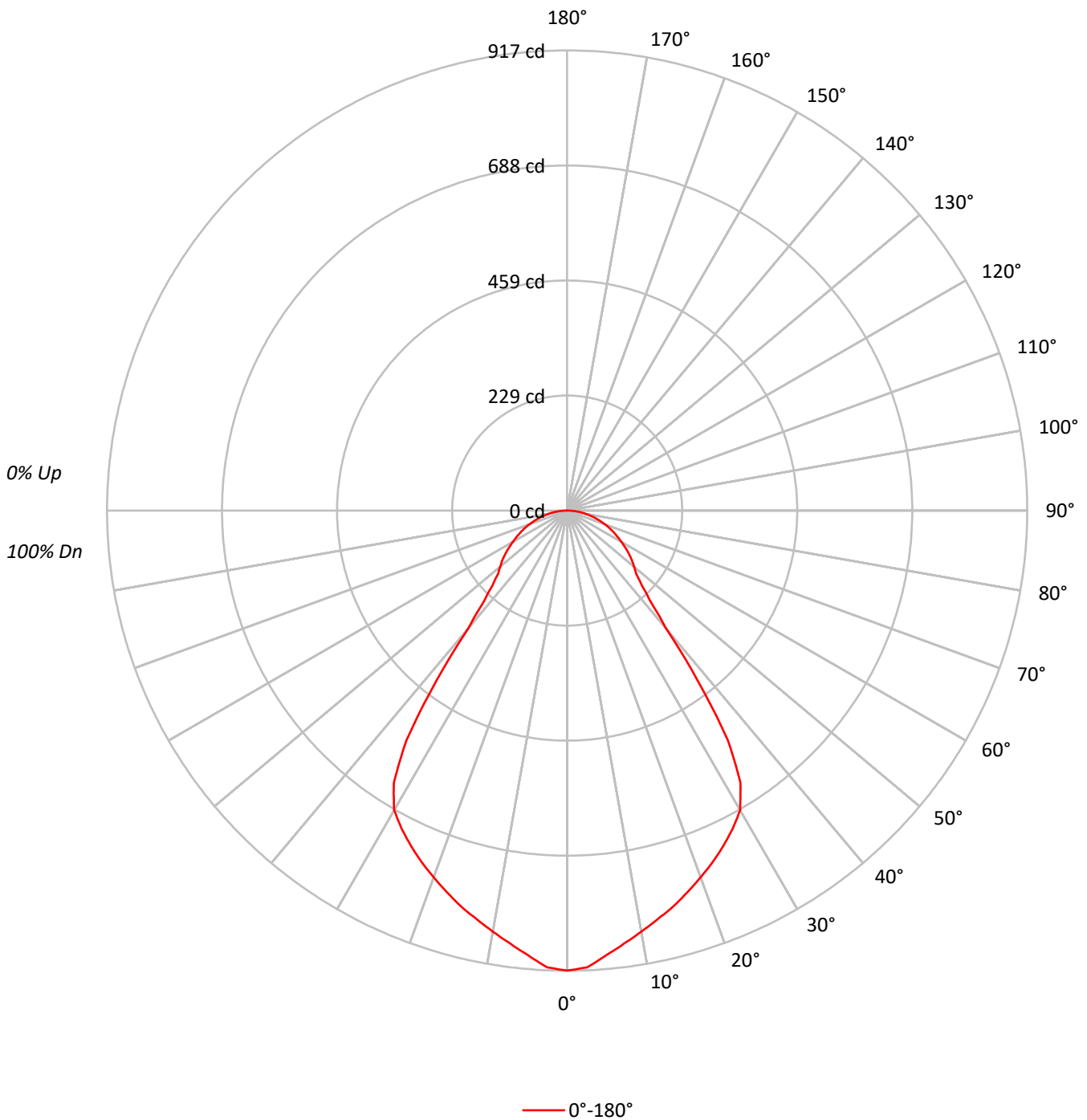
Lumens per Lamp: N/A
Luminaire Lumens: 1469.5 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.13 / 1.07
Luminous Opening: Circular (Dia: 0.92' x H: 0')
CIE Type: Direct

Input Watts (W): 15.6
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: P865875

CATALOG NUMBER: PRLX-2004-S-940-15L-L-U-S-X-X-WHHR-X

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	111	107	103	100	108	104	101	98	100	98	95	96	94	92	93	91	90	88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	70	68
4	89	78	71	65	86	77	70	65	75	69	64	72	67	63	70	66	62	60
5	83	72	64	58	81	70	63	58	68	62	57	67	61	57	65	60	56	54
6	77	66	58	52	75	65	57	52	63	57	52	61	56	51	60	55	51	49
7	72	61	53	47	71	60	53	47	58	52	47	57	51	47	56	50	46	45
8	68	56	49	43	67	55	48	43	54	48	43	53	47	43	52	47	43	41
9	64	52	45	40	63	52	45	40	50	44	40	49	44	39	49	43	39	38
10	60	49	42	37	59	48	41	37	47	41	37	46	41	36	45	40	36	35

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	14950
5°	14570
10°	14111
15°	13794
20°	13497
25°	13261
30°	12980
35°	11122
40°	6515
45°	4855
50°	4415
55°	4271
60°	4074
65°	3956
70°	3815
75°	3718
80°	3560
85°	3406

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4855 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.8	5.7
10°-20°	230.2	15.7
20°-30°	339.3	23.1
30°-40°	329.2	22.4
40°-50°	169.6	11.5
50°-60°	134.2	9.1
60°-70°	101.4	6.9
70°-80°	61.8	4.2
80°-90°	20.0	1.4
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°	653.3	44.5
0°-40°	982.4	66.9
0°-60°	1286.2	87.5
0°-90°	1469.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1469.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	917	
5°	890	84
15°	817	230
25°	737	339
35°	559	329
45°	210	170
55°	150	134
65°	102	101
75°	59	62
85°	18	20
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	916.6
2.5°	911.0
5°	889.9
7.5°	870.2
10°	852.0
12.5°	833.8
15°	816.9
17.5°	797.3
20°	777.6
22.5°	758.0
25°	736.9
27.5°	714.4
30°	689.2
32.5°	642.9
35°	558.6
37.5°	428.1
40°	306.0
42.5°	245.6
45°	210.5
47.5°	186.7
50°	174.0
52.5°	162.8
55°	150.2
57.5°	137.6
60°	124.9
62.5°	113.7
65°	102.5
67.5°	91.2
70°	80.0
72.5°	68.8
75°	59.0
77.5°	47.7
80°	37.9
82.5°	28.1
85°	18.2
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	15.51	16.88	15.88	17.19	17.50	15.51	16.88	15.88	17.19	17.50
	3H	17.33	18.55	17.71	18.88	19.25	17.33	18.55	17.71	18.88	19.25
	4H	18.06	19.21	18.47	19.56	19.94	18.06	19.21	18.47	19.56	19.94
	6H	18.64	19.69	19.05	20.06	20.45	18.64	19.69	19.05	20.06	20.45
	8H	18.85	19.85	19.28	20.24	20.64	18.85	19.85	19.28	20.24	20.64
	12H	19.00	19.96	19.43	20.34	20.77	19.00	19.96	19.43	20.34	20.77
4H	2H	16.11	17.25	16.51	17.60	17.98	16.11	17.25	16.51	17.60	17.98
	3H	18.15	19.10	18.56	19.50	19.91	18.15	19.10	18.56	19.50	19.91
	4H	19.02	19.88	19.45	20.29	20.74	19.02	19.88	19.45	20.29	20.74
	6H	19.73	20.48	20.19	20.92	21.38	19.73	20.48	20.19	20.92	21.38
	8H	20.00	20.69	20.46	21.14	21.61	20.00	20.69	20.46	21.14	21.61
	12H	20.20	20.82	20.69	21.30	21.77	20.20	20.82	20.69	21.30	21.77
8H	4H	19.33	20.03	19.80	20.47	20.94	19.33	20.03	19.80	20.47	20.94
	6H	20.19	20.76	20.69	21.26	21.74	20.19	20.76	20.69	21.26	21.74
	8H	20.55	21.06	21.07	21.58	22.07	20.55	21.06	21.07	21.58	22.07
	12H	20.85	21.30	21.37	21.80	22.37	20.85	21.30	21.37	21.80	22.37
12H	4H	19.36	19.98	19.85	20.46	20.93	19.36	19.98	19.85	20.46	20.93
	6H	20.26	20.77	20.78	21.28	21.78	20.26	20.77	20.78	21.28	21.78
	8H	20.69	21.13	21.20	21.63	22.20	20.69	21.13	21.20	21.63	22.20