

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: P979577

Luminaire Tested: PRLX-CYL6-940-74L-MD-U-S-X-X-WHTE

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979577
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-CYL6-940-74L-MD-U-S-X-X-WHTE
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE TRIM WITH MEDIUM OPTIC
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

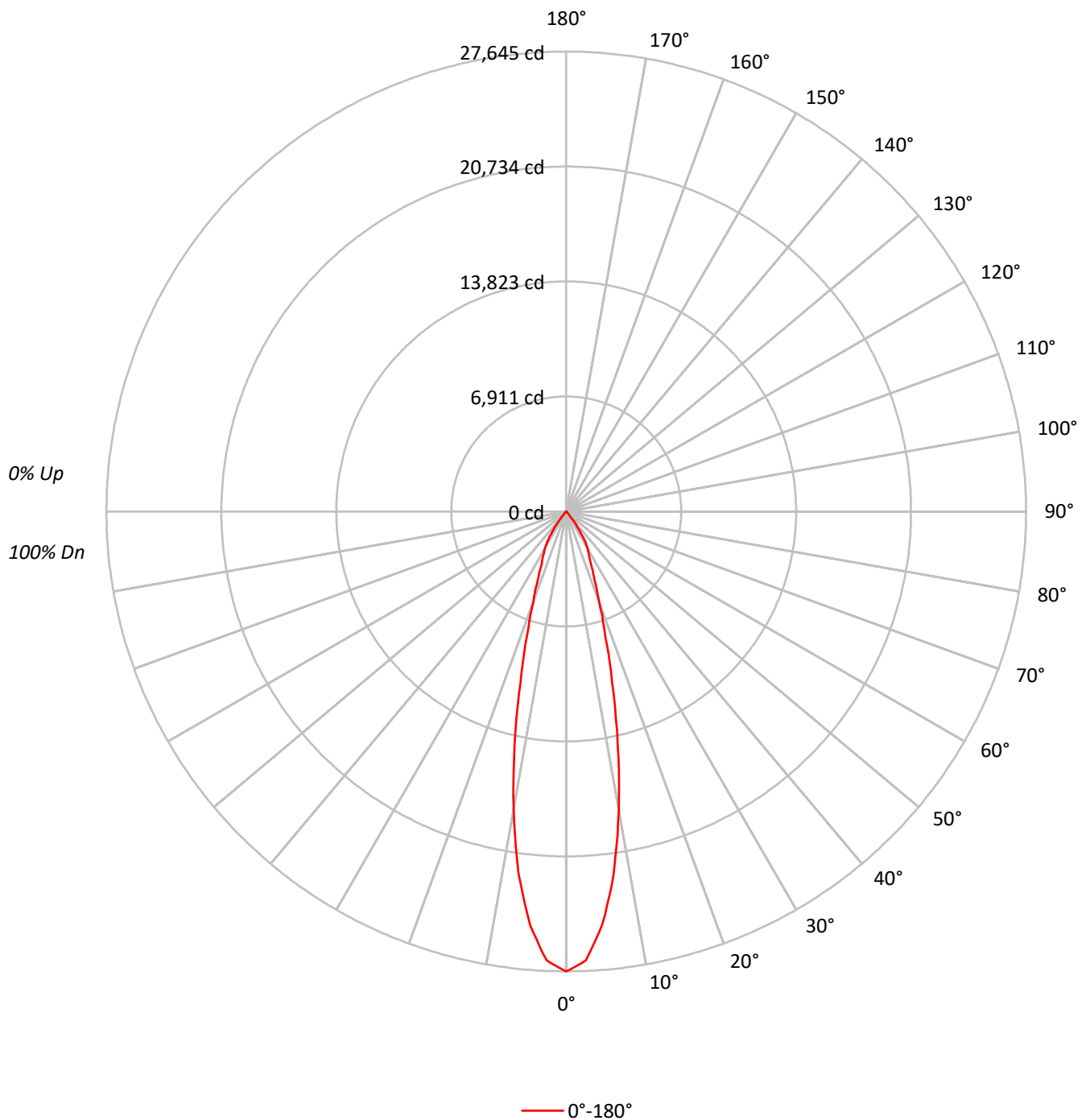
Lumens per Lamp: N/A
Luminaire Lumens: 7760.4 lumens
Efficiency: N/A
Efficacy: 126.2 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

Input Watts (W): 61.5
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: NR
Operation Time: NR
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
RW	70	50	30	10	70	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		100
1	115	112	110	108	112	110	108	107	106	105	103		103	101	100		96
2	110	106	103	100	108	105	102	99	102	99	97		99	97	95		92
3	106	101	97	94	104	100	96	93	97	94	92		95	93	90		88
4	102	96	92	89	101	95	91	88	93	90	87		92	89	86		84
5	99	92	88	84	97	91	87	84	90	86	83		88	85	83		81
6	95	88	84	80	94	88	83	80	86	83	80		85	82	79		77
7	92	85	80	77	91	84	80	77	83	79	76		82	79	76		75
8	89	82	77	74	88	81	77	74	80	76	73		79	76	73		72
9	86	79	74	71	85	78	74	71	77	74	71		77	73	71		69
10	84	76	72	69	83	76	71	68	75	71	68		74	71	68		67

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	278357
5°	252018
10°	186022
15°	110823
20°	62037
25°	38990
30°	29727
35°	16919
40°	2897
45°	523
50°	268
55°	214
60°	147
65°	117
70°	144
75°	191
80°	139
85°	277

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 87.5°
Luminance: 554 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2164.9	27.9
10°-20°	2990.0	38.5
20°-30°	1703.4	22.0
30°-40°	835.3	10.8
40°-50°	43.7	0.6
50°-60°	10.9	0.1
60°-70°	5.7	0.1
70°-80°	4.2	0.1
80°-90°	2.3	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°	6858.3	88.4
0°-40°	7693.6	99.1
0°-60°	7748.2	99.8
0°-90°	7760.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7760.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	27645	
5°	24934	###
15°	10631	2990
25°	3510	1703
35°	1376	835
45°	37	44
55°	12	11
65°	5	6
75°	5	4
85°	2	2
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	27644.9
2.5°	27022.8
5°	24933.8
7.5°	21923.9
10°	18194.0
12.5°	14322.0
15°	10631.3
17.5°	7822.3
20°	5789.6
22.5°	4452.4
25°	3509.5
27.5°	2953.6
30°	2556.8
32.5°	2054.8
35°	1376.4
37.5°	693.1
40°	220.4
42.5°	56.3
45°	36.7
47.5°	22.0
50°	17.1
52.5°	14.7
55°	12.2
57.5°	9.8
60°	7.3
62.5°	7.3
65°	4.9
67.5°	4.9
70°	4.9
72.5°	4.9
75°	4.9
77.5°	2.4
80°	2.4
82.5°	2.4
85°	2.4
87.5°	2.4
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4H	2H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8H	4H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12H	4H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

END OF REPORT