

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: P979531

Luminaire Tested: PRLX-240-940-31L-C-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979531
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-240-940-31L-C-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 240 SHADE WITH CLEAR LENS
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

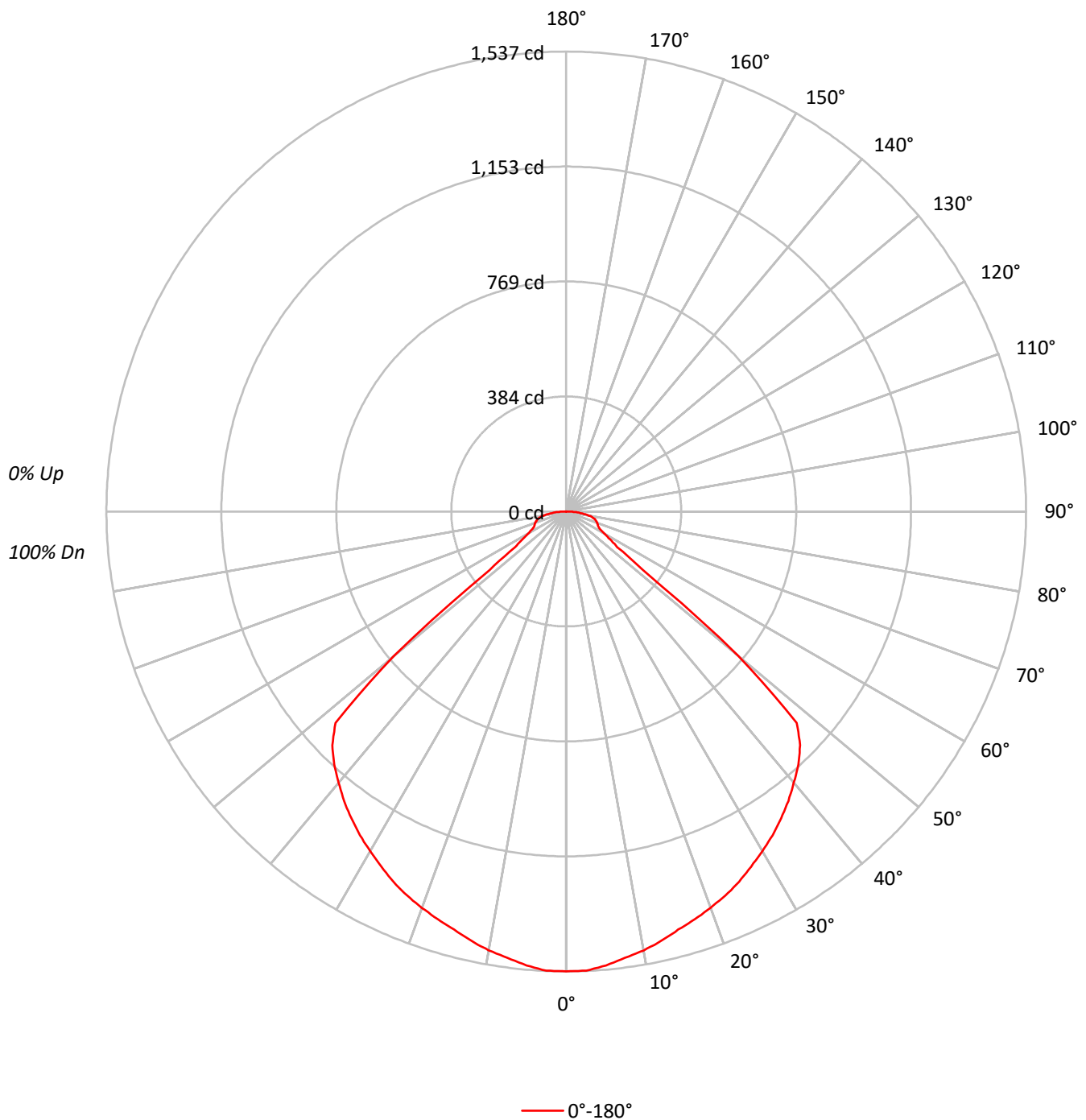
Lumens per Lamp: N/A
Luminaire Lumens: 3308.0 lumens
Efficiency: N/A
Efficacy: 160.6 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.43
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

Input Watts (W): 20.6
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

TEST NUMBER: P979531

CATALOG NUMBER: PRLX-240-940-31L-C-U-S-WHTE-X

Luminous Intensity Polar Plot



TEST NUMBER: P979531

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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		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	111	107	103	100	108	105	101	99	100	98	96		97	95	93		93
2	103	96	90	85	100	94	89	84	91	86	83		87	84	81		85
3	95	86	79	74	93	85	78	73	82	76	72		79	75	71		77
4	88	78	70	64	86	77	70	64	74	68	63		72	67	62		70
5	82	71	63	57	80	69	62	57	67	61	56		66	60	55		64
6	76	64	56	51	74	63	56	50	62	55	50		60	54	50		59
7	71	59	51	45	69	58	50	45	56	50	45		55	49	44		54
8	66	54	46	41	65	53	46	41	52	45	40		51	45	40		50
9	62	50	42	37	61	49	42	37	48	41	37		47	41	36		46
10	58	46	38	34	57	45	38	34	44	38	33		43	37	33		43

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	15477
5°	15390
10°	15228
15°	15083
20°	15103
25°	15176
30°	15243
35°	15388
40°	15555
45°	15743
50°	11763
55°	3660
60°	2924
65°	2816
70°	3235
75°	3832
80°	4389
85°	4309

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 15743 cd/sqm

TEST NUMBER: P979531

CATALOG NUMBER: PRLX-240-940-31L-C-U-S-WHTE-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.2	4.4
10°-20°	409.5	12.4
20°-30°	629.7	19.0
30°-40°	784.0	23.7
40°-50°	822.4	24.9
50°-60°	254.3	7.7
60°-70°	120.5	3.6
70°-80°	101.8	3.1
80°-90°	41.6	1.3
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°	1183.5	35.8
0°-40°	1967.5	59.5
0°-60°	3044.2	92.0
0°-90°	3308.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3308.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1537	
5°	1523	144
15°	1447	410
25°	1366	630
35°	1252	784
45°	1106	822
55°	208	254
65°	118	120
75°	98	102
85°	37	42
90°	0	

TEST NUMBER: P979531

CATALOG NUMBER: PRLX-240-940-31L-C-U-S-WHTE-X

CANDELA DISTRIBUTION (FULL):

0°	
0°	1537.1
2.5°	1536.0
5°	1522.6
7.5°	1504.9
10°	1489.4
12.5°	1469.7
15°	1446.9
17.5°	1429.2
20°	1409.5
22.5°	1389.8
25°	1366.0
27.5°	1337.9
30°	1311.0
32.5°	1283.0
35°	1251.9
37.5°	1219.7
40°	1183.4
42.5°	1148.1
45°	1105.6
47.5°	1045.5
50°	750.9
52.5°	322.6
55°	208.5
57.5°	173.2
60°	145.2
62.5°	126.5
65°	118.2
67.5°	114.1
70°	109.9
72.5°	104.8
75°	98.5
77.5°	89.2
80°	75.7
82.5°	57.0
85°	37.3
87.5°	20.7
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	12.50	13.93	12.86	14.24	14.55	12.50	13.93	12.86	14.24	14.55
	3H	14.46	15.73	14.84	16.06	16.42	14.46	15.73	14.84	16.06	16.42
	4H	15.62	16.80	16.02	17.15	17.53	15.62	16.80	16.02	17.15	17.53
	6H	16.75	17.84	17.17	18.21	18.60	16.75	17.84	17.17	18.21	18.60
	8H	17.18	18.21	17.61	18.60	19.01	17.18	18.21	17.61	18.60	19.01
	12H	17.48	18.47	17.92	18.86	19.29	17.48	18.47	17.92	18.86	19.29
4H	2H	13.01	14.19	13.41	14.54	14.92	13.01	14.19	13.41	14.54	14.92
	3H	15.38	16.34	15.79	16.75	17.15	15.38	16.34	15.79	16.75	17.15
	4H	16.75	17.62	17.19	18.04	18.48	16.75	17.62	17.19	18.04	18.48
	6H	18.08	18.83	18.54	19.28	19.74	18.08	18.83	18.54	19.28	19.74
	8H	18.57	19.28	19.04	19.73	20.20	18.57	19.28	19.04	19.73	20.20
	12H	18.94	19.57	19.43	20.05	20.53	18.94	19.57	19.43	20.05	20.53
8H	4H	17.29	17.99	17.75	18.44	18.91	17.29	17.99	17.75	18.44	18.91
	6H	18.79	19.38	19.29	19.87	20.35	18.79	19.38	19.29	19.87	20.35
	8H	19.39	19.93	19.91	20.44	20.93	19.39	19.93	19.91	20.44	20.93
	12H	19.87	20.35	20.39	20.84	21.41	19.87	20.35	20.39	20.84	21.41
12H	4H	17.38	18.01	17.87	18.49	18.96	17.38	18.01	17.87	18.49	18.96
	6H	18.93	19.46	19.45	19.97	20.46	18.93	19.46	19.45	19.97	20.46
	8H	19.61	20.09	20.12	20.58	21.15	19.61	20.09	20.12	20.58	21.15