

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: P979461

Luminaire Tested: PRLX-240-935-43L-C-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979461
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-240-935-43L-C-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 240 SHADE WITH CLEAR LENS
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

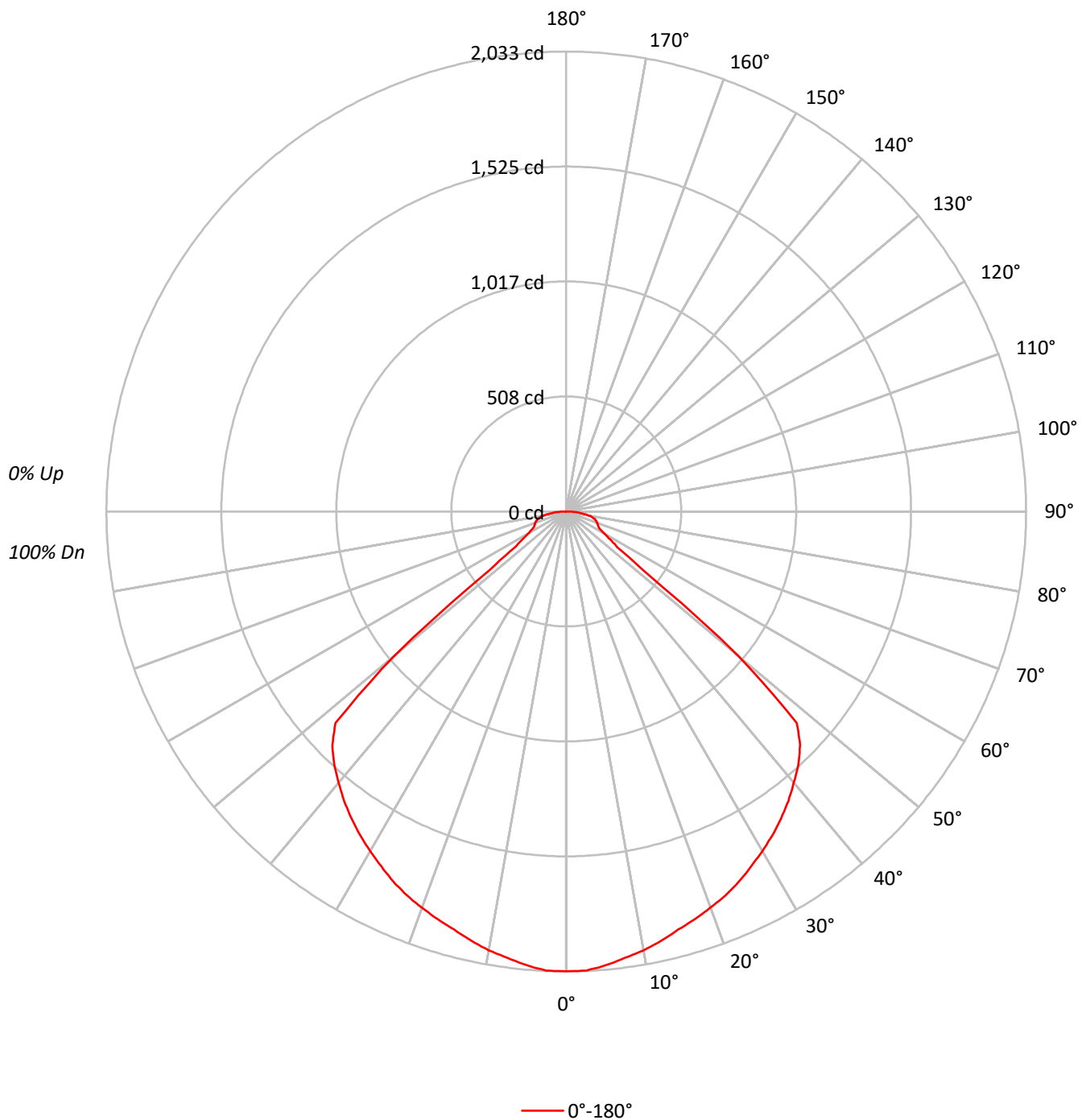
Lumens per Lamp: N/A
Luminaire Lumens: 4375.0 lumens
Efficiency: N/A
Efficacy: 148.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.43
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

Input Watts (W): 29.5
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

TEST NUMBER: P979461

CATALOG NUMBER: PRLX-240-935-43L-C-U-S-WHTE-X

Luminous Intensity Polar Plot



TEST NUMBER: P979461

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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	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	111	107	103	100		108	105	101	99		100	98	95		97	95	93		93	91	90
2	103	96	90	85		100	94	89	84		91	86	83		87	84	81		85	82	79
3	95	86	79	74		93	85	78	73		82	76	72		79	75	71		77	73	70
4	88	78	70	64		86	77	70	64		74	68	63		72	67	62		70	65	62
5	82	71	63	57		80	69	62	57		67	61	56		66	60	55		64	59	55
6	76	64	56	51		74	63	56	50		62	55	50		60	54	50		59	53	49
7	71	59	51	45		69	58	50	45		56	50	45		55	49	44		54	48	44
8	66	54	46	41		65	53	46	41		52	45	40		51	45	40		50	44	40
9	62	50	42	37		61	49	42	37		48	41	37		47	41	36		46	40	36
10	58	46	38	34		57	45	38	34		44	38	33		43	37	33		43	37	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	20469
5°	20353
10°	20140
15°	19947
20°	19974
25°	20070
30°	20158
35°	20351
40°	20572
45°	20821
50°	15557
55°	4840
60°	3866
65°	3726
70°	4281
75°	5069
80°	5804
85°	5707

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 20821 cd/sqm

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CATALOG NUMBER: PRLX-240-935-43L-C-U-S-WHTE-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.7	4.4
10°-20°	541.6	12.4
20°-30°	832.9	19.0
30°-40°	1036.8	23.7
40°-50°	1087.7	24.9
50°-60°	336.3	7.7
60°-70°	159.4	3.6
70°-80°	134.6	3.1
80°-90°	55.0	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°	1565.2	35.8
0°-40°	2602.0	59.5
0°-60°	4026.0	92.0
0°-90°	4375.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4375.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2033	
5°	2014	191
15°	1914	542
25°	1806	833
35°	1656	1037
45°	1462	1088
55°	276	336
65°	156	159
75°	130	135
85°	49	55
90°	0	

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CATALOG NUMBER: PRLX-240-935-43L-C-U-S-WHTE-X

CANDELA DISTRIBUTION (FULL):

0°	
0°	2032.9
2.5°	2031.5
5°	2013.7
7.5°	1990.3
10°	1969.8
12.5°	1943.7
15°	1913.5
17.5°	1890.2
20°	1864.1
22.5°	1838.1
25°	1806.5
27.5°	1769.5
30°	1733.8
32.5°	1696.8
35°	1655.6
37.5°	1613.1
40°	1565.1
42.5°	1518.5
45°	1462.2
47.5°	1382.7
50°	993.1
52.5°	426.6
55°	275.7
57.5°	229.1
60°	192.0
62.5°	167.3
65°	156.4
67.5°	150.9
70°	145.4
72.5°	138.5
75°	130.3
77.5°	118.0
80°	100.1
82.5°	75.4
85°	49.4
87.5°	27.4
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	13.47	14.90	13.84	15.21	15.53	13.47	14.90	13.84	15.21	15.53
	3H	15.43	16.70	15.81	17.03	17.39	15.43	16.70	15.81	17.03	17.39
	4H	16.59	17.78	16.99	18.12	18.51	16.59	17.78	16.99	18.12	18.51
	6H	17.73	18.81	18.14	19.18	19.58	17.73	18.81	18.14	19.18	19.58
	8H	18.15	19.19	18.58	19.58	19.98	18.15	19.19	18.58	19.58	19.98
	12H	18.46	19.45	18.89	19.83	20.26	18.46	19.45	18.89	19.83	20.26
4H	2H	13.98	15.16	14.38	15.51	15.89	13.98	15.16	14.38	15.51	15.89
	3H	16.35	17.32	16.76	17.72	18.12	16.35	17.32	16.76	17.72	18.12
	4H	17.73	18.59	18.16	19.01	19.45	17.73	18.59	18.16	19.01	19.45
	6H	19.05	19.80	19.51	20.25	20.71	19.05	19.80	19.51	20.25	20.71
	8H	19.55	20.25	20.01	20.70	21.17	19.55	20.25	20.01	20.70	21.17
	12H	19.92	20.55	20.40	21.03	21.50	19.92	20.55	20.40	21.03	21.50
8H	4H	18.26	18.97	18.72	19.41	19.88	18.26	18.97	18.72	19.41	19.88
	6H	19.76	20.35	20.26	20.84	21.32	19.76	20.35	20.26	20.84	21.32
	8H	20.37	20.90	20.88	21.41	21.90	20.37	20.90	20.88	21.41	21.90
	12H	20.85	21.32	21.36	21.82	22.38	20.85	21.32	21.36	21.82	22.38
12H	4H	18.35	18.98	18.84	19.46	19.94	18.35	18.98	18.84	19.46	19.94
	6H	19.90	20.43	20.42	20.95	21.44	19.90	20.43	20.42	20.95	21.44
	8H	20.58	21.06	21.09	21.55	22.12	20.58	21.06	21.09	21.55	22.12