

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: P980413

Luminaire Tested: PRLX-243-935-31L-F-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P980413
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-32)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-243-935-31L-F-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 243 SHADE WITH FROSTED LENS
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

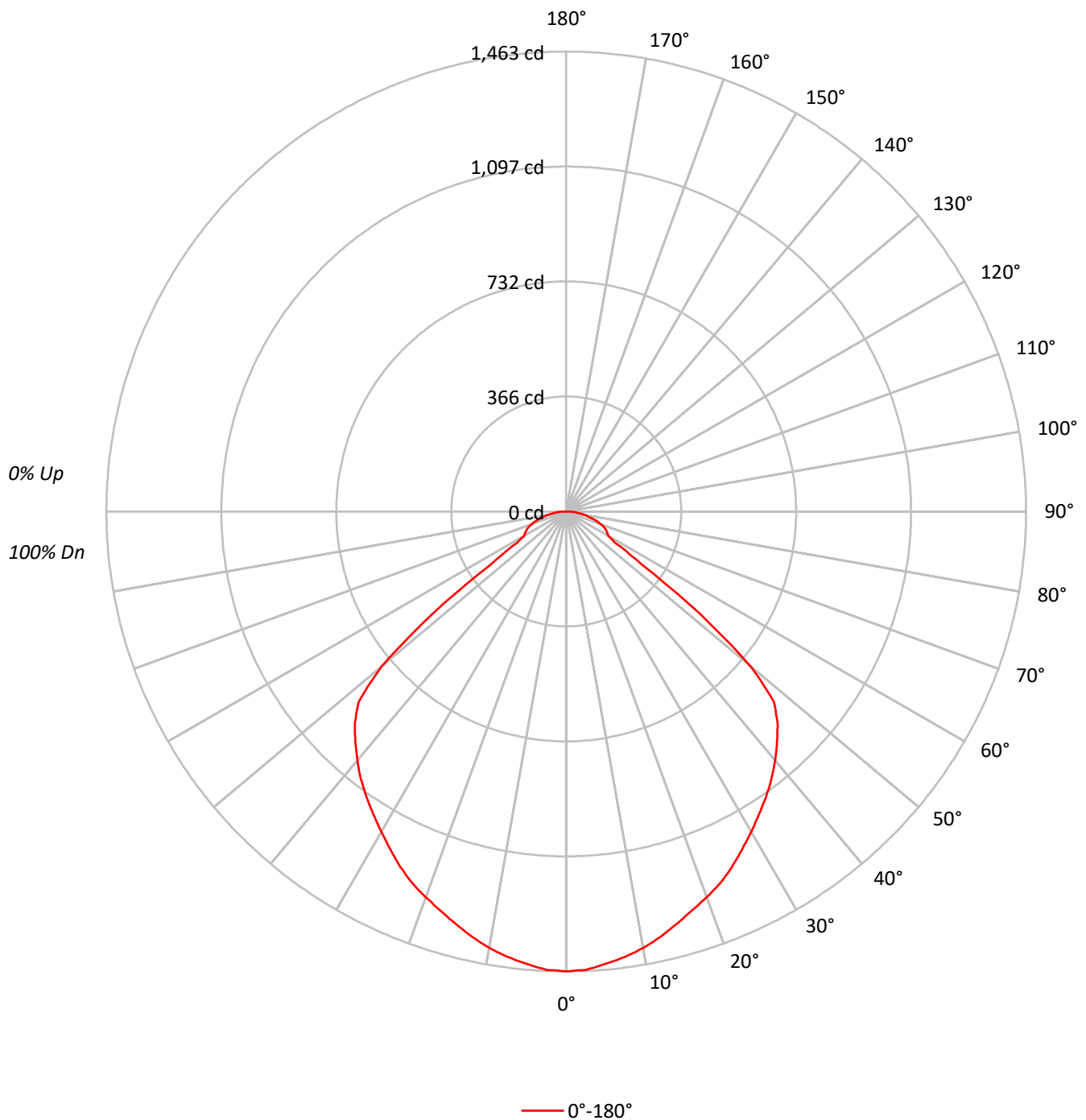
Lumens per Lamp: N/A
Luminaire Lumens: 3092.1 lumens
Efficiency: N/A
Efficacy: 149.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.36
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 20.7
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		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	95		97	95	93		93
2	103	96	90	85	100	94	89	84	90	86	82		87	84	80		84
3	95	86	79	73	92	84	78	73	81	76	71		79	74	70		76
4	88	77	70	64	86	76	69	63	74	67	63		71	66	62		69
5	81	70	62	56	79	69	61	56	67	60	55		65	59	55		63
6	76	64	56	50	74	63	55	50	61	54	49		59	53	49		58
7	70	58	50	44	69	57	50	44	56	49	44		54	48	44		53
8	66	53	45	40	64	53	45	40	51	45	40		50	44	39		49
9	61	49	41	36	60	48	41	36	47	41	36		46	40	36		45
10	58	45	38	33	56	45	38	33	44	37	33		43	37	33		42

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	7218
5°	7157
10°	7064
15°	6936
20°	6857
25°	6794
30°	6705
35°	6674
40°	6660
45°	6636
50°	5887
55°	2520
60°	1520
65°	1623
70°	1673
75°	1620
80°	1563
85°	1585

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6636 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.9	4.4
10°-20°	383.5	12.4
20°-30°	574.7	18.6
30°-40°	693.8	22.4
40°-50°	721.7	23.3
50°-60°	324.7	10.5
60°-70°	136.3	4.4
70°-80°	90.1	2.9
80°-90°	30.6	1.0
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°	1095.0	35.4
0°-40°	1788.8	57.8
0°-60°	2835.1	91.7
0°-90°	3092.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3092.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1463	
5°	1445	137
15°	1358	383
25°	1248	575
35°	1108	694
45°	951	722
55°	293	325
65°	139	136
75°	85	90
85°	28	31
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1463
2.5°	1459
5°	1445
7.5°	1429
10°	1410
12.5°	1386
15°	1358
17.5°	1331
20°	1306
22.5°	1280
25°	1248
27.5°	1212
30°	1177
32.5°	1142
35°	1108
37.5°	1073
40°	1034
42.5°	993
45°	951
47.5°	896
50°	767
52.5°	536
55°	293
57.5°	183
60°	154
62.5°	147
65°	139
67.5°	129
70°	116
72.5°	101
75°	85
77.5°	70
80°	55
82.5°	41
85°	28
87.5°	16
90°	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	10.61	12.06	10.98	12.37	12.69	10.61	12.06	10.98	12.37	12.69
	3H	12.70	13.99	13.08	14.32	14.68	12.70	13.99	13.08	14.32	14.68
	4H	13.53	14.73	13.93	15.08	15.46	13.53	14.73	13.93	15.08	15.46
	6H	14.18	15.28	14.59	15.65	16.04	14.18	15.28	14.59	15.65	16.04
	8H	14.41	15.46	14.84	15.85	16.25	14.41	15.46	14.84	15.85	16.25
	12H	14.59	15.60	15.02	15.98	16.41	14.59	15.60	15.02	15.98	16.41
4H	2H	11.27	12.47	11.67	12.82	13.20	11.27	12.47	11.67	12.82	13.20
	3H	13.62	14.60	14.03	15.00	15.40	13.62	14.60	14.03	15.00	15.40
	4H	14.58	15.46	15.01	15.88	16.32	14.58	15.46	15.01	15.88	16.32
	6H	15.36	16.12	15.82	16.57	17.03	15.36	16.12	15.82	16.57	17.03
	8H	15.64	16.36	16.11	16.81	17.27	15.64	16.36	16.11	16.81	17.27
	12H	15.88	16.52	16.36	17.00	17.47	15.88	16.52	16.36	17.00	17.47
8H	4H	14.93	15.65	15.40	16.09	16.56	14.93	15.65	15.40	16.09	16.56
	6H	15.85	16.45	16.35	16.94	17.42	15.85	16.45	16.35	16.94	17.42
	8H	16.23	16.77	16.75	17.28	17.77	16.23	16.77	16.75	17.28	17.77
	12H	16.57	17.05	17.08	17.54	18.11	16.57	17.05	17.08	17.54	18.11
12H	4H	14.97	15.60	15.45	16.08	16.56	14.97	15.60	15.45	16.08	16.56
	6H	15.92	16.46	16.44	16.97	17.46	15.92	16.46	16.44	16.97	17.46
	8H	16.37	16.85	16.88	17.34	17.91	16.37	16.85	16.88	17.34	17.91

END OF REPORT