

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: PORTFOLIO

Report Number: P743131

Luminaire Tested: LD4D15D010-EU4DR300215IC9030-4LBCSSQMW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P743131
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D15D010-EU4DR300215IC9030-4LBCSSQMW
Description: 4 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1197.7 lumens
Efficiency: N/A
Efficacy: 75.8 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

Input Watts (W): 15.8
Input Voltage (V): NR
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



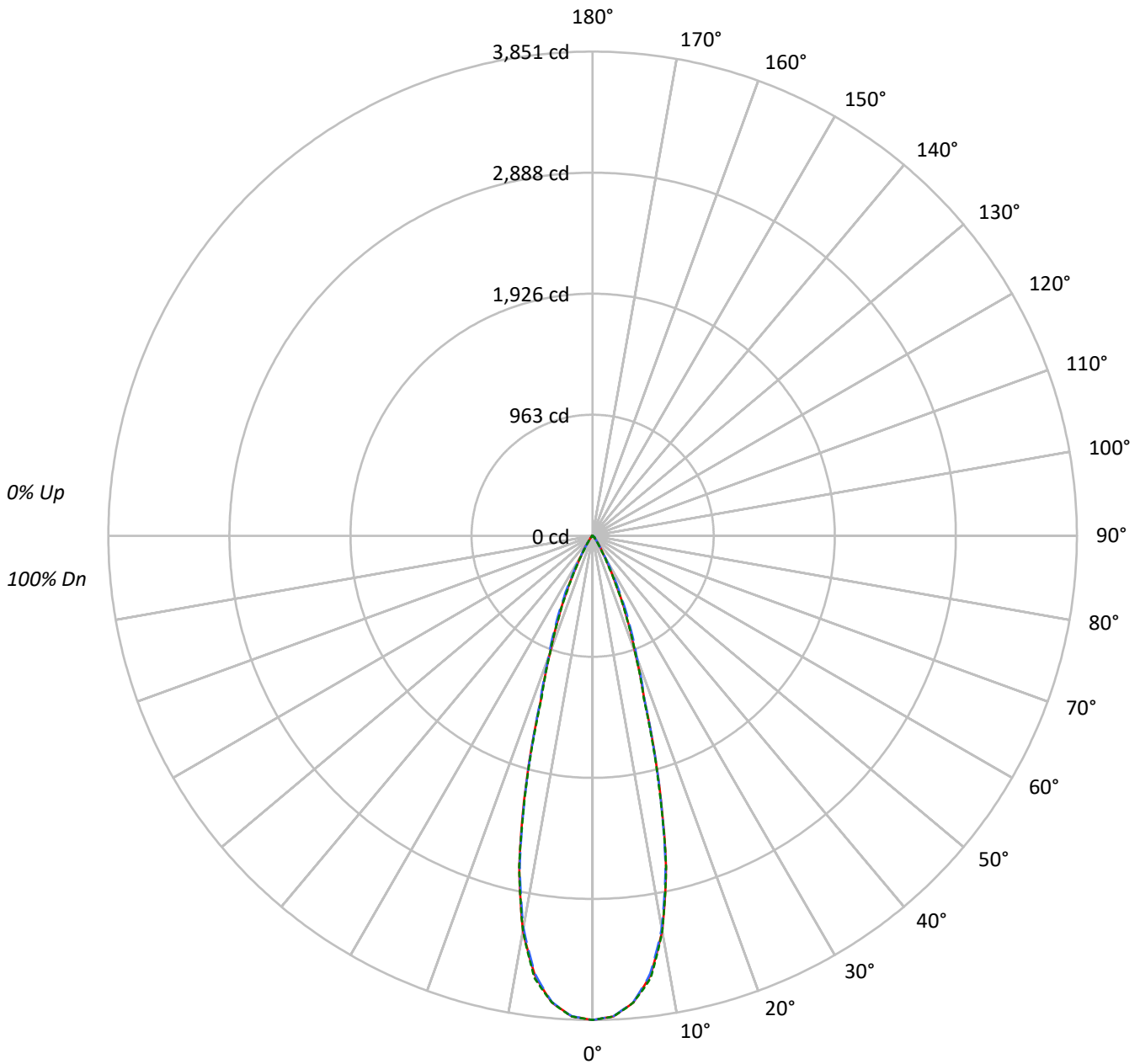
Downlight



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	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	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96																			
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92																			
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89																			
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85																			
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82																			
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79																			
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77																			
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74																			
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72																			
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	294776	294776	294776
5°	286321	285983	286336
10°	247995	246246	247940
15°	161807	160936	160127
20°	80462	83476	80348
25°	40531	45708	39694
30°	16227	17677	14142
35°	7531	7204	6046
40°	3247	3607	3068
45°	2295	2847	2317
50°	786	2072	834
55°	454	854	480
60°	321	383	321
65°	199	199	199
70°	134	90	134
75°	0	59	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 2847 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.7	28.3
10°-20°	545.4	45.5
20°-30°	235.7	19.7
30°-40°	53.7	4.5
40°-50°	18.5	1.5
50°-60°	4.5	0.4
60°-70°	1.2	0.1
70°-80°	0.1	0.0
80°-90°	0.0	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°	1119.7	93.5
0°-40°	1173.5	98.0
0°-60°	1196.4	99.9
0°-90°	1197.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1197.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3851	3851	3851	3851	3851	
5°	3726	3723	3722	3730	3727	339
15°	2042	2017	2031	2024	2021	547
25°	480	498	541	485	470	230
35°	81	82	77	77	65	55
45°	21	26	26	26	21	15
55°	3	4	6	4	4	3
65°	1	1	1	1	1	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3851.1	3851.1	3851.1	3851.1	3851.1
2.5°	3825.6	3823.0	3824.5	3826.4	3827.1
5°	3726.4	3722.8	3722.0	3729.8	3726.6
7.5°	3526.1	3521.0	3513.3	3530.9	3547.3
10°	3190.7	3185.0	3168.2	3176.6	3190.0
12.5°	2695.5	2677.2	2676.8	2703.2	2699.7
15°	2041.9	2017.3	2030.9	2024.3	2020.7
17.5°	1373.1	1363.6	1381.8	1376.3	1352.7
20°	987.8	990.2	1024.8	1007.4	986.4
22.5°	720.8	729.7	770.7	725.9	709.4
25°	479.9	498.0	541.2	485.3	470.0
27.5°	295.1	303.5	347.2	291.3	283.0
30°	183.6	179.4	200.0	171.7	160.0
32.5°	120.4	115.2	121.8	109.3	99.8
35°	80.6	82.3	77.1	76.6	64.7
37.5°	50.3	57.9	51.0	54.4	41.6
40°	32.5	42.0	36.1	39.9	30.7
42.5°	26.6	32.3	29.7	31.6	27.2
45°	21.2	26.3	26.3	26.3	21.4
47.5°	11.7	17.6	22.5	18.0	12.5
50°	6.6	8.9	17.4	9.3	7.0
52.5°	4.5	5.1	11.9	5.3	4.8
55°	3.4	3.6	6.4	3.8	3.6
57.5°	2.6	2.9	3.4	2.9	2.6
60°	2.1	2.1	2.5	2.3	2.1
62.5°	1.5	1.5	1.7	1.5	1.5
65°	1.1	1.1	1.1	1.1	1.1
67.5°	0.6	0.7	0.7	0.7	0.7
70°	0.6	0.4	0.4	0.4	0.6
72.5°	0.4	0.2	0.2	0.2	0.2
75°	0.0	0.0	0.2	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



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Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

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