

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: P746029

Luminaire Tested: LD4D30D010-EU4DR3020359040-4LBSQW1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P746029
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: LD4D30D010-EU4DR3020359040-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2385.4 lumens
Efficiency: N/A
Efficacy: 82.3 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): 29
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

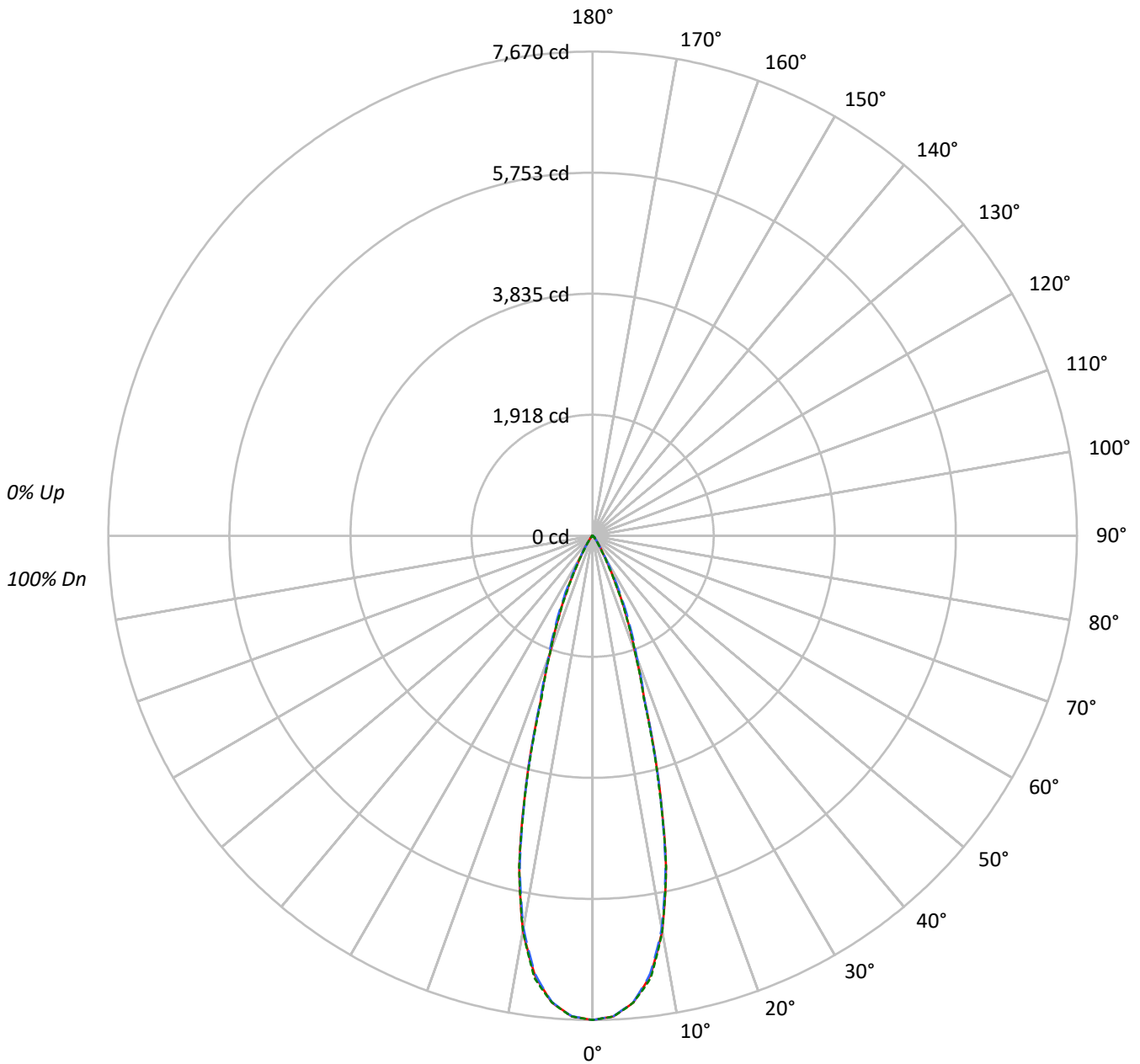


Downlight



TEST NUMBER: P746029
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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	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°	587111	587111	587111
5°	570252	569591	570283
10°	493922	490440	493805
15°	322260	320532	318916
20°	160248	166259	160028
25°	80723	91027	79068
30°	32322	35212	28159
35°	14988	14362	12035
40°	6475	7184	6095
45°	4568	5672	4611
50°	1572	4132	1655
55°	907	1708	961
60°	628	750	628
65°	398	398	398
70°	246	157	246
75°	0	118	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 5672 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	674.5	28.3
10°-20°	1086.3	45.5
20°-30°	469.4	19.7
30°-40°	107.0	4.5
40°-50°	36.7	1.5
50°-60°	9.0	0.4
60°-70°	2.3	0.1
70°-80°	0.2	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°	2230.1	93.5
0°-40°	2337.1	98.0
0°-60°	2382.8	99.9
0°-90°	2385.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2385.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7670	7670	7670	7670	7670	
5°	7422	7415	7413	7428	7422	675
15°	4067	4018	4045	4032	4024	1089
25°	956	992	1078	967	936	457
35°	160	164	154	152	129	109
45°	42	52	52	52	43	30
55°	7	7	13	8	7	7
65°	2	2	2	2	2	2
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°	7670.3	7670.3	7670.3	7670.3	7670.3
2.5°	7619.4	7614.1	7617.2	7620.9	7622.4
5°	7421.7	7414.6	7413.1	7428.5	7422.1
7.5°	7022.9	7012.7	6997.3	7032.3	7065.1
10°	6354.8	6343.5	6310.0	6326.6	6353.3
12.5°	5368.5	5332.1	5331.3	5384.0	5376.9
15°	4066.7	4017.8	4044.9	4031.7	4024.5
17.5°	2734.8	2715.9	2752.1	2741.2	2694.1
20°	1967.3	1972.2	2041.1	2006.4	1964.6
22.5°	1435.5	1453.2	1534.9	1445.7	1413.0
25°	955.8	991.9	1077.8	966.7	936.2
27.5°	587.8	604.4	691.4	580.3	563.7
30°	365.7	357.3	398.4	341.9	318.6
32.5°	239.9	229.4	242.5	217.7	198.8
35°	160.4	163.8	153.7	152.5	128.8
37.5°	100.2	115.2	101.7	108.5	82.8
40°	64.8	83.6	71.9	79.5	61.0
42.5°	53.1	64.4	59.1	62.9	54.2
45°	42.2	52.4	52.4	52.4	42.6
47.5°	23.4	35.0	44.8	35.8	24.9
50°	13.2	17.7	34.7	18.4	13.9
52.5°	9.1	10.1	23.7	10.5	9.4
55°	6.8	7.2	12.8	7.5	7.2
57.5°	5.3	5.7	6.8	5.7	5.3
60°	4.1	4.1	4.9	4.5	4.1
62.5°	3.0	3.0	3.4	3.0	3.0
65°	2.2	2.2	2.2	2.2	2.2
67.5°	1.1	1.5	1.5	1.5	1.5
70°	1.1	0.7	0.7	0.7	1.1
72.5°	0.7	0.4	0.4	0.4	0.4
75°	0.0	0.0	0.4	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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