

Signify Classified - Internal
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: PORTFOLIO

Report Number: P747531

Luminaire Tested: LD4D40BD010-EU4DR3040509024-4LBDP1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P747531
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: LD4D40BD010-EU4DR3040509024-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2808.1 lumens
Efficiency: N/A
Efficacy: 79.8 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

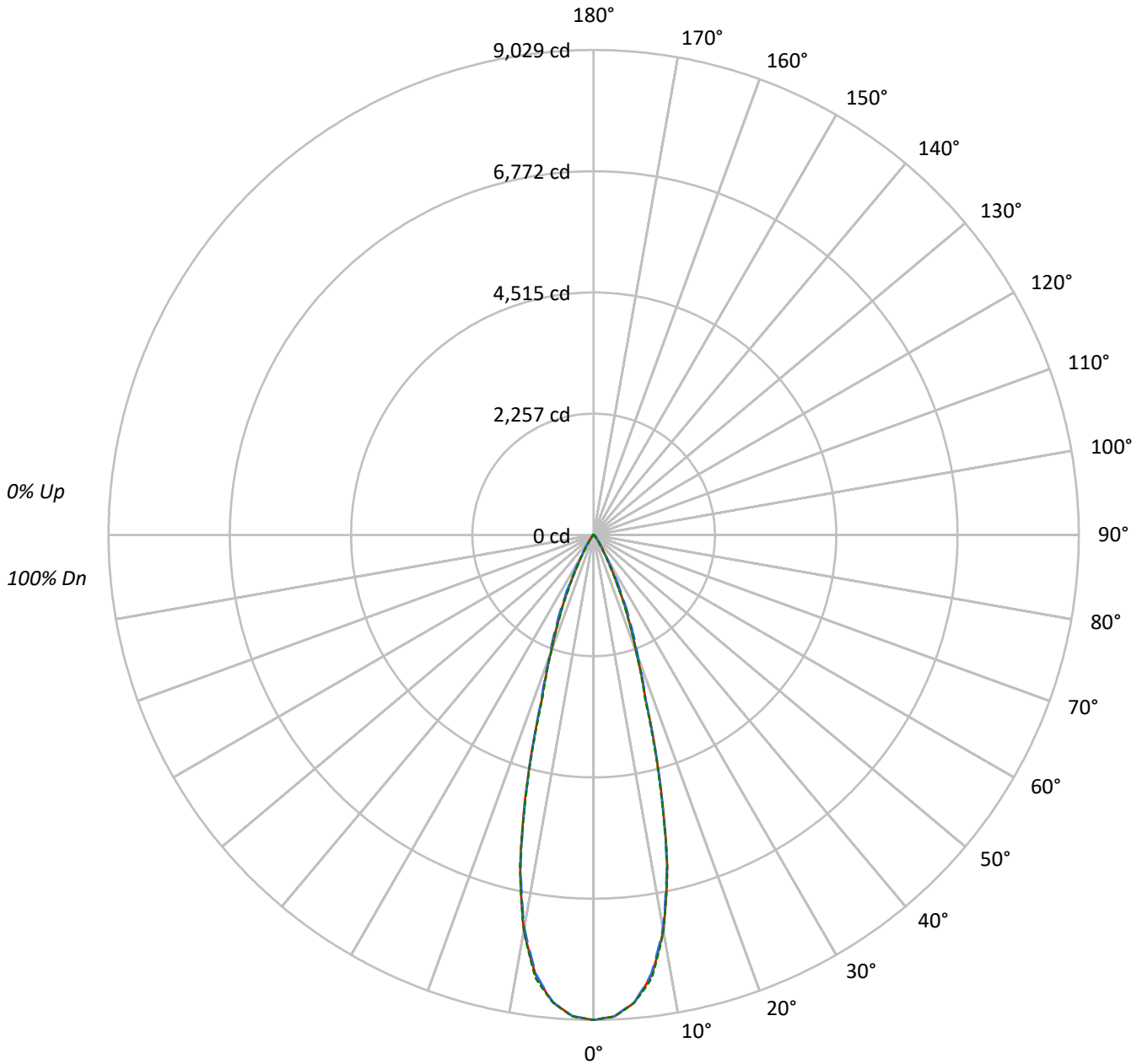
Input Watts (W): 35.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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	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°	691141	691141	691141
5°	671307	670523	671337
10°	581447	577351	581315
15°	379371	377326	375432
20°	188643	195722	188391
25°	95022	107158	93079
30°	38050	41452	33144
35°	17651	16904	14166
40°	7624	8463	7174
45°	5380	6668	5423
50°	1846	4858	1953
55°	1068	2015	1121
60°	750	888	750
65°	489	489	489
70°	291	201	291
75°	0	118	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 6668 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	794.0	28.3
10°-20°	1278.7	45.5
20°-30°	552.6	19.7
30°-40°	125.9	4.5
40°-50°	43.2	1.5
50°-60°	10.6	0.4
60°-70°	2.7	0.1
70°-80°	0.3	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°	2625.3	93.5
0°-40°	2751.3	98.0
0°-60°	2805.1	99.9
0°-90°	2808.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2808.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9029	9029	9029	9029	9029	
5°	8737	8728	8727	8745	8737	795
15°	4787	4730	4762	4746	4738	1282
25°	1125	1168	1269	1138	1102	539
35°	189	193	181	180	152	128
45°	50	62	62	62	50	35
55°	8	8	15	9	8	8
65°	3	3	3	3	3	3
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9029.4	9029.4	9029.4	9029.4	9029.4
2.5°	8969.6	8963.4	8966.9	8971.4	8973.1
5°	8736.9	8728.4	8726.7	8744.8	8737.3
7.5°	8267.4	8255.4	8237.2	8278.5	8317.0
10°	7480.9	7467.6	7428.2	7447.7	7479.2
12.5°	6319.9	6276.9	6276.0	6338.1	6329.7
15°	4787.4	4729.7	4761.6	4746.1	4737.7
17.5°	3219.4	3197.2	3239.7	3226.9	3171.5
20°	2315.9	2321.6	2402.8	2362.0	2312.8
22.5°	1689.9	1710.8	1807.0	1701.9	1663.3
25°	1125.1	1167.7	1268.8	1138.0	1102.1
27.5°	692.0	711.5	813.9	683.1	663.6
30°	430.5	420.7	469.0	402.5	375.0
32.5°	282.4	270.0	285.5	256.2	234.1
35°	188.9	192.8	180.9	179.5	151.6
37.5°	117.9	135.7	119.7	127.7	97.5
40°	76.3	98.4	84.7	93.5	71.8
42.5°	62.5	75.8	69.6	74.0	63.8
45°	49.7	61.6	61.6	61.6	50.1
47.5°	27.5	41.2	52.8	42.1	29.3
50°	15.5	20.8	40.8	21.7	16.4
52.5°	10.6	12.0	27.9	12.4	11.1
55°	8.0	8.4	15.1	8.9	8.4
57.5°	6.2	6.6	8.0	6.6	6.2
60°	4.9	4.9	5.8	5.3	4.9
62.5°	3.5	3.5	4.0	3.5	3.5
65°	2.7	2.7	2.7	2.7	2.7
67.5°	1.3	1.8	1.8	1.8	1.8
70°	1.3	0.9	0.9	0.9	1.3
72.5°	0.9	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

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Scaled Data Report





— 0°-180° - - 45°-225° - - - 90°-270°

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