

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: P749134

Luminaire Tested: LD4D50D010-EU4DR3040509035-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749134
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: LD4D50D010-EU4DR3040509035-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4778.5 lumens
Efficiency: N/A
Efficacy: 101.7 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

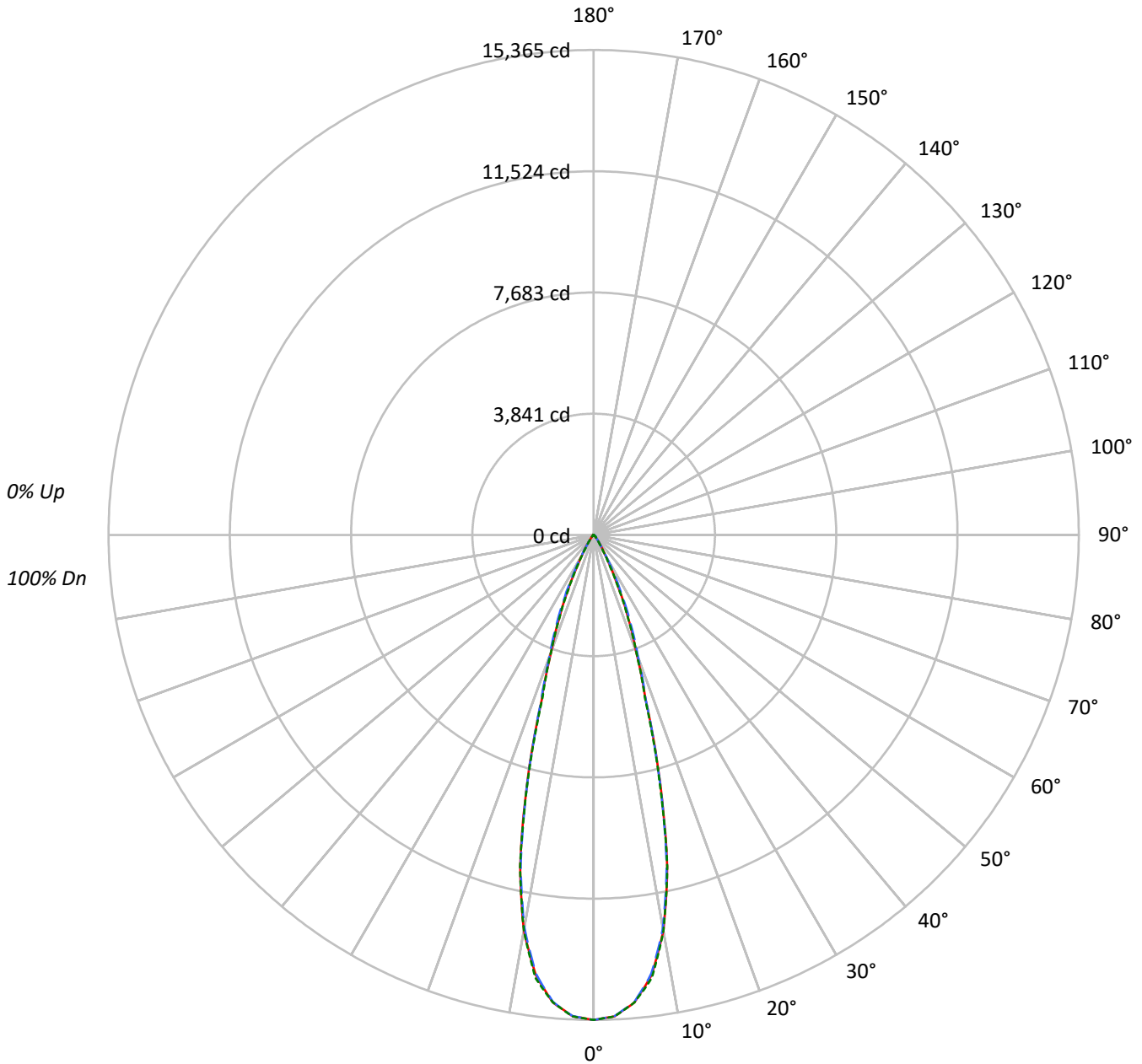
Input Watts (W): 47
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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					70					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°	1176097	1176097	1176097
5°	1142333	1140996	1142387
10°	989429	982457	989196
15°	645558	642087	638862
20°	321001	333048	320577
25°	161700	182341	158389
30°	64742	70540	56407
35°	30032	28762	24108
40°	12970	14399	12210
45°	9147	11355	9223
50°	3144	8264	3322
55°	1815	3416	1908
60°	1271	1500	1271
65°	815	815	815
70°	515	336	515
75°	0	237	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 11355 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1351.1	28.3
10°-20°	2176.0	45.5
20°-30°	940.3	19.7
30°-40°	214.3	4.5
40°-50°	73.6	1.5
50°-60°	18.0	0.4
60°-70°	4.6	0.1
70°-80°	0.5	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°	4467.4	93.5
0°-40°	4681.8	98.0
0°-60°	4773.3	99.9
0°-90°	4778.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4778.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15365	15365	15365	15365	15365	
5°	14867	14853	14850	14881	14868	1352
15°	8146	8048	8103	8076	8062	2181
25°	1915	1987	2159	1936	1875	916
35°	321	328	308	306	258	218
45°	84	105	105	105	85	60
55°	14	14	26	15	14	13
65°	4	4	4	4	4	4
75°	0	0	1	0	0	1
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°	15365.1	15365.1	15365.1	15365.1	15365.1
2.5°	15263.2	15252.7	15258.7	15266.2	15269.3
5°	14867.2	14852.8	14849.8	14880.8	14867.9
7.5°	14068.3	14047.9	14017.0	14087.2	14152.8
10°	12730.0	12707.4	12640.3	12673.5	12727.0
12.5°	10754.3	10681.2	10679.7	10785.3	10770.9
15°	8146.5	8048.4	8102.7	8076.3	8062.0
17.5°	5478.3	5440.5	5513.0	5491.1	5396.8
20°	3940.8	3950.6	4088.7	4019.3	3935.6
22.5°	2875.7	2911.1	3074.8	2896.0	2830.4
25°	1914.6	1987.0	2159.0	1936.5	1875.4
27.5°	1177.6	1210.8	1385.0	1162.5	1129.3
30°	732.5	715.9	798.1	685.0	638.2
32.5°	480.5	459.4	485.8	436.0	398.3
35°	321.4	328.2	307.8	305.5	258.0
37.5°	200.7	230.8	203.7	217.3	166.0
40°	129.8	167.5	144.1	159.2	122.2
42.5°	106.4	129.0	118.4	126.0	108.6
45°	84.5	104.9	104.9	104.9	85.2
47.5°	46.8	70.2	89.8	71.7	49.8
50°	26.4	35.5	69.4	37.0	27.9
52.5°	18.1	20.4	47.5	21.1	18.9
55°	13.6	14.3	25.6	15.1	14.3
57.5°	10.6	11.3	13.6	11.3	10.6
60°	8.3	8.3	9.8	9.1	8.3
62.5°	6.0	6.0	6.8	6.0	6.0
65°	4.5	4.5	4.5	4.5	4.5
67.5°	2.3	3.0	3.0	3.0	3.0
70°	2.3	1.5	1.5	1.5	2.3
72.5°	1.5	0.8	0.8	0.8	0.8
75°	0.0	0.0	0.8	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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