

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: P750665

Luminaire Tested: LD4D60D010-EU4DR3055659027-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P750665
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: LD4D60D010-EU4DR3055659027-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5628.6 lumens
Efficiency: N/A
Efficacy: 87.4 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

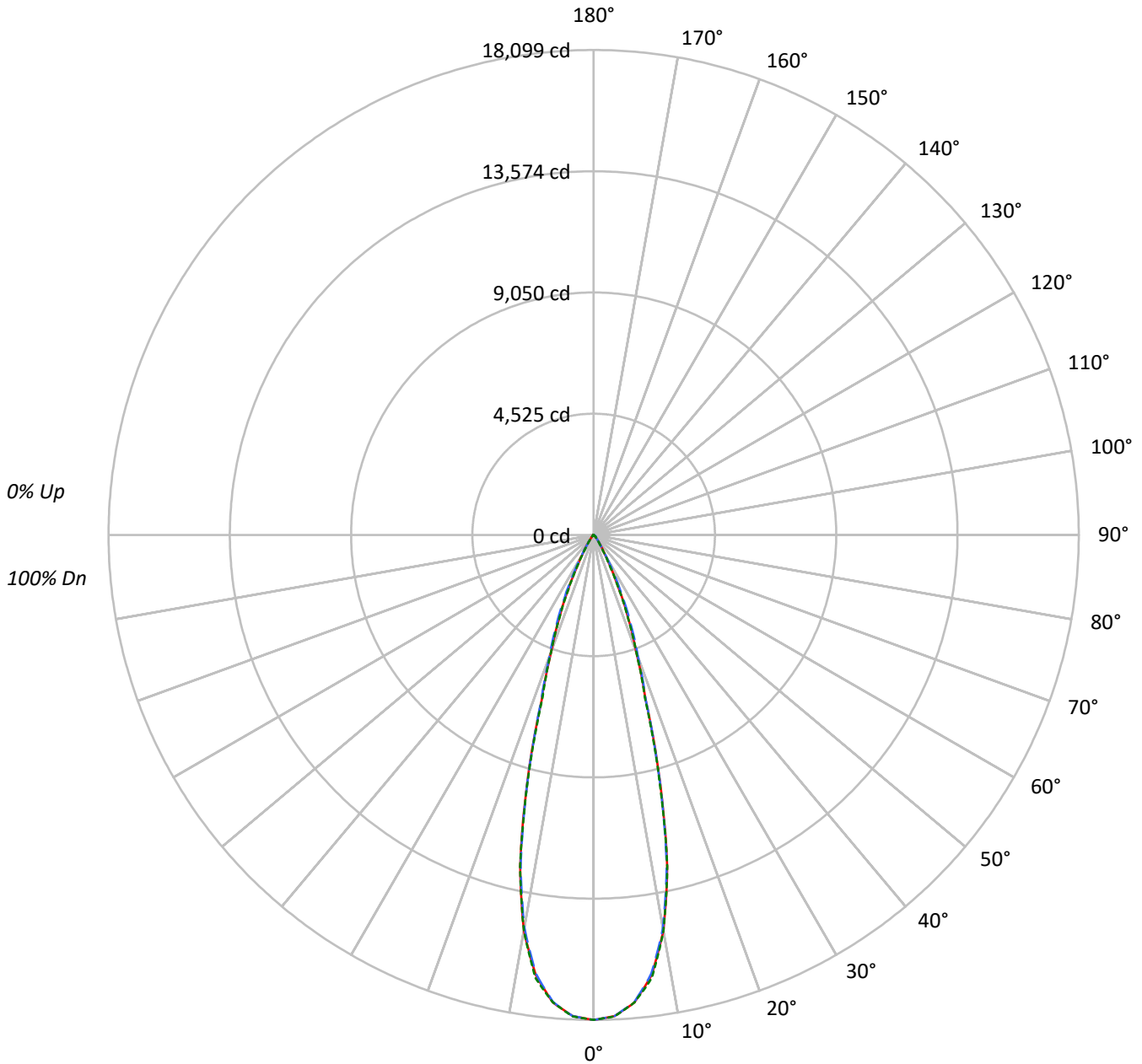
Input Watts (W): 64.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	1385328	1385328	1385328
5°	1345564	1343988	1345633
10°	1165459	1157243	1165187
15°	760405	756324	752521
20°	378118	392299	377605
25°	190466	214781	186564
30°	76258	83090	66439
35°	35368	33873	28397
40°	15268	16956	14389
45°	10771	13369	10868
50°	3703	9729	3918
55°	2135	4030	2255
60°	1500	1776	1500
65°	960	960	960
70°	604	403	604
75°	0	266	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 13369 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1591.5	28.3
10°-20°	2563.1	45.5
20°-30°	1107.6	19.7
30°-40°	252.4	4.5
40°-50°	86.7	1.5
50°-60°	21.2	0.4
60°-70°	5.5	0.1
70°-80°	0.6	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°	5262.2	93.5
0°-40°	5514.7	98.0
0°-60°	5622.5	99.9
0°-90°	5628.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5628.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	18099	18099	18099	18099	18099	
5°	17512	17495	17492	17528	17513	1593
15°	9596	9480	9544	9513	9496	2569
25°	2255	2340	2543	2281	2209	1080
35°	378	386	362	360	304	257
45°	100	124	124	124	100	71
55°	16	17	30	18	17	16
65°	5	5	5	5	5	5
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°	18098.6	18098.6	18098.6	18098.6	18098.6
2.5°	17978.7	17966.2	17973.3	17982.2	17985.8
5°	17512.2	17495.3	17491.7	17528.2	17513.1
7.5°	16571.2	16547.2	16510.7	16593.4	16670.7
10°	14994.8	14968.2	14889.1	14928.2	14991.3
12.5°	12667.6	12581.4	12579.7	12704.1	12687.2
15°	9595.8	9480.3	9544.3	9513.2	9496.3
17.5°	6452.9	6408.5	6493.8	6468.0	6356.9
20°	4642.0	4653.5	4816.1	4734.4	4635.7
22.5°	3387.3	3429.0	3621.9	3411.3	3334.0
25°	2255.2	2340.5	2543.1	2281.0	2209.0
27.5°	1387.1	1426.2	1631.4	1369.3	1330.2
30°	862.8	843.3	940.1	806.8	751.7
32.5°	566.0	541.1	572.2	513.6	469.2
35°	378.5	386.5	362.5	359.9	303.9
37.5°	236.4	271.9	239.9	255.9	195.5
40°	152.8	197.3	169.7	187.5	144.0
42.5°	125.3	151.9	139.5	148.4	128.0
45°	99.5	123.5	123.5	123.5	100.4
47.5°	55.1	82.6	105.7	84.4	58.6
50°	31.1	41.8	81.7	43.5	32.9
52.5°	21.3	24.0	56.0	24.9	22.2
55°	16.0	16.9	30.2	17.8	16.9
57.5°	12.4	13.3	16.0	13.3	12.4
60°	9.8	9.8	11.6	10.7	9.8
62.5°	7.1	7.1	8.0	7.1	7.1
65°	5.3	5.3	5.3	5.3	5.3
67.5°	2.7	3.6	3.6	3.6	3.6
70°	2.7	1.8	1.8	1.8	2.7
72.5°	1.8	0.9	0.9	0.9	0.9
75°	0.0	0.0	0.9	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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