

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: P738837

Luminaire Tested: LD4D02D010-EU4DR150210IC9027-4LBDP1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P738837
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D02D010-EU4DR150210IC9027-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 318.6 lumens
Efficiency: N/A
Efficacy: 62.5 lumens/watt
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.23
Luminous Opening: Vertical Cylinder (Dia: 0.35' x H: 0.35')
CIE Type: Direct

Input Watts (W): 5.1
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



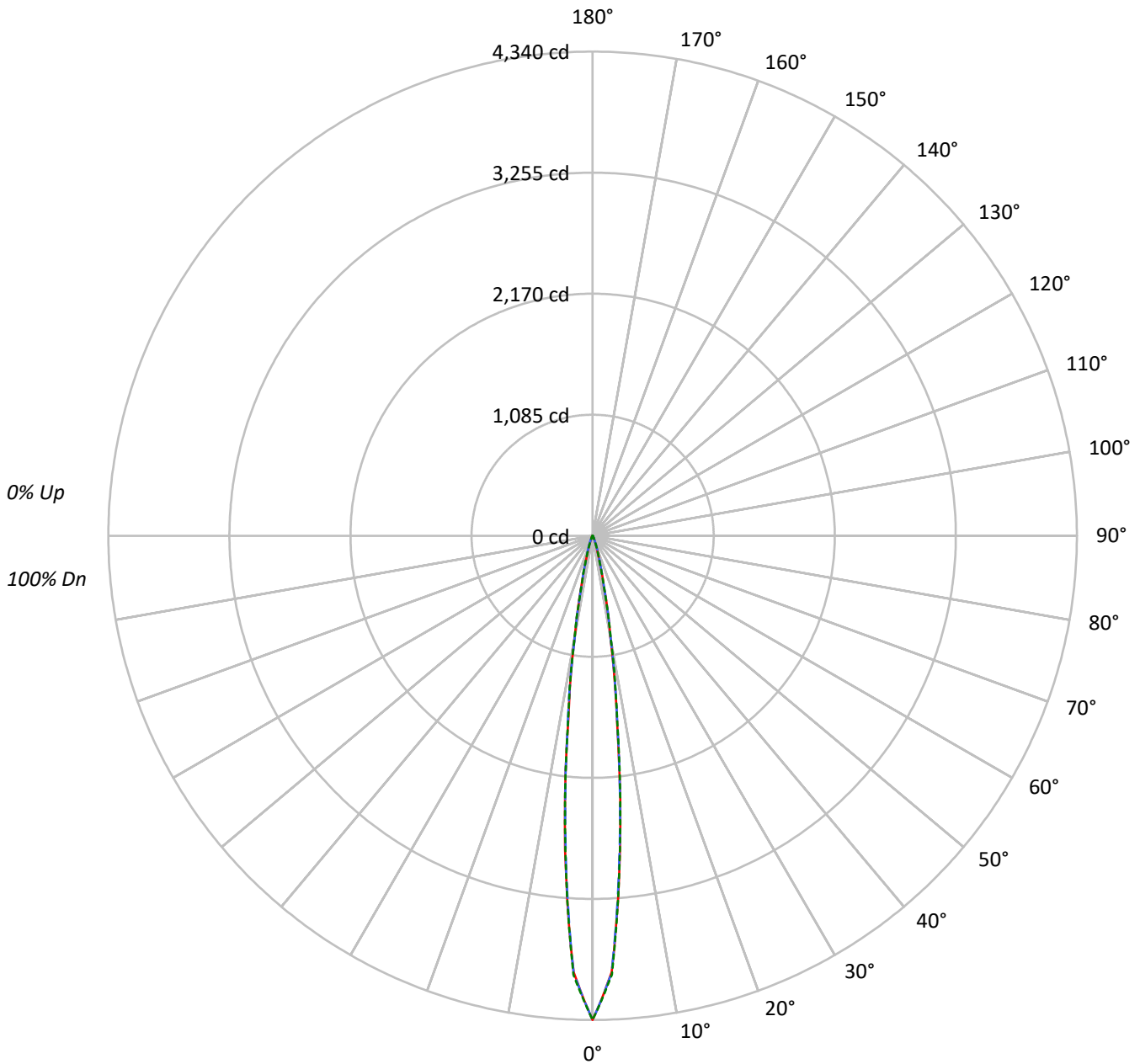
Downlight



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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	50	30	10	0													
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						100													
1	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98						98													
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	98	98	96						96													
3	110	106	103	101	108	105	102	100	103	100	99	100	99	97	98	97	96	94						94													
4	108	103	100	98	106	102	99	97	100	98	96	99	97	95	97	95	94	93						93													
5	105	101	98	95	104	100	97	95	98	96	94	97	95	93	96	94	92	92						92													
6	104	99	95	93	102	98	95	93	97	94	92	96	93	92	95	93	91	90						90													
7	102	97	93	91	101	96	93	91	95	93	91	94	92	90	93	91	90	89						89													
8	100	95	92	90	99	95	92	90	94	91	89	93	91	89	92	90	89	88						88													
9	99	93	90	88	98	93	90	88	92	90	88	92	89	88	91	89	87	87						87													
10	97	92	89	87	96	92	89	87	91	89	87	91	88	87	90	88	86	86						86													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	488370	488370	488370
5°	286990	283270	285516
10°	85656	86254	87569
15°	21306	21723	21054
20°	6374	7380	6513
25°	2244	2859	2275
30°	824	1086	839
35°	414	465	399
40°	263	284	263
45°	196	203	196
50°	153	153	153
55°	125	125	125
60°	105	105	105
65°	79	79	79
70°	66	66	66
75°	45	45	53
80°	32	32	32
85°	17	17	17

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 203 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.6	64.8
10°-20°	85.0	26.7
20°-30°	16.9	5.3
30°-40°	4.2	1.3
40°-50°	2.2	0.7
50°-60°	1.6	0.5
60°-70°	1.2	0.4
70°-80°	0.7	0.2
80°-90°	0.2	0.1
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°	308.5	96.8
0°-40°	312.7	98.1
0°-60°	316.6	99.4
0°-90°	318.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	318.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4340	4340	4340	4340	4340	
5°	2824	2795	2787	2807	2809	206
15°	245	250	250	246	242	84
25°	29	33	37	32	29	15
35°	6	6	6	6	6	4
45°	3	3	3	3	3	2
55°	2	2	2	2	2	2
65°	1	1	1	1	1	1
75°	1	1	1	1	1	1
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°	4340.3	4340.3	4340.3	4340.3	4340.3
2.5°	3915.1	3918.4	3919.7	3923.6	3937.9
5°	2823.9	2794.9	2787.3	2806.6	2809.4
7.5°	1672.8	1678.6	1700.1	1704.9	1687.7
10°	918.0	925.5	924.4	931.0	938.5
12.5°	469.5	463.6	461.7	469.3	458.8
15°	245.3	249.9	250.1	245.7	242.4
17.5°	131.9	137.3	146.1	138.9	127.9
20°	77.9	82.7	90.2	84.3	79.6
22.5°	48.1	52.0	57.3	52.7	48.9
25°	28.8	32.7	36.7	32.5	29.2
27.5°	17.1	20.4	23.0	20.2	16.9
30°	11.0	12.9	14.5	12.7	11.2
32.5°	7.7	8.5	9.2	8.5	7.7
35°	5.7	6.1	6.4	6.1	5.5
37.5°	4.4	4.8	5.0	4.6	4.2
40°	3.7	3.9	4.0	3.9	3.7
42.5°	3.1	3.3	3.3	3.3	3.1
45°	2.8	2.8	2.9	2.8	2.8
47.5°	2.4	2.4	2.6	2.4	2.4
50°	2.2	2.2	2.2	2.2	2.2
52.5°	2.0	2.0	2.0	2.0	2.0
55°	1.8	1.8	1.8	1.8	1.8
57.5°	1.7	1.7	1.7	1.7	1.7
60°	1.5	1.5	1.5	1.5	1.5
62.5°	1.3	1.3	1.3	1.3	1.3
65°	1.1	1.1	1.1	1.1	1.1
67.5°	1.1	1.1	1.1	1.1	1.1
70°	0.9	0.9	0.9	0.9	0.9
72.5°	0.7	0.7	0.7	0.7	0.7
75°	0.6	0.6	0.6	0.6	0.7
77.5°	0.6	0.6	0.6	0.6	0.6
80°	0.4	0.4	0.4	0.4	0.4
82.5°	0.4	0.4	0.4	0.4	0.4
85°	0.2	0.2	0.2	0.2	0.2
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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