

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: P738893

Luminaire Tested: LD4D02D010-EU4DR150210IC9050-4LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P738893
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-EU4DR150210IC9050-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 372.8 lumens
Efficiency: N/A
Efficacy: 73.1 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

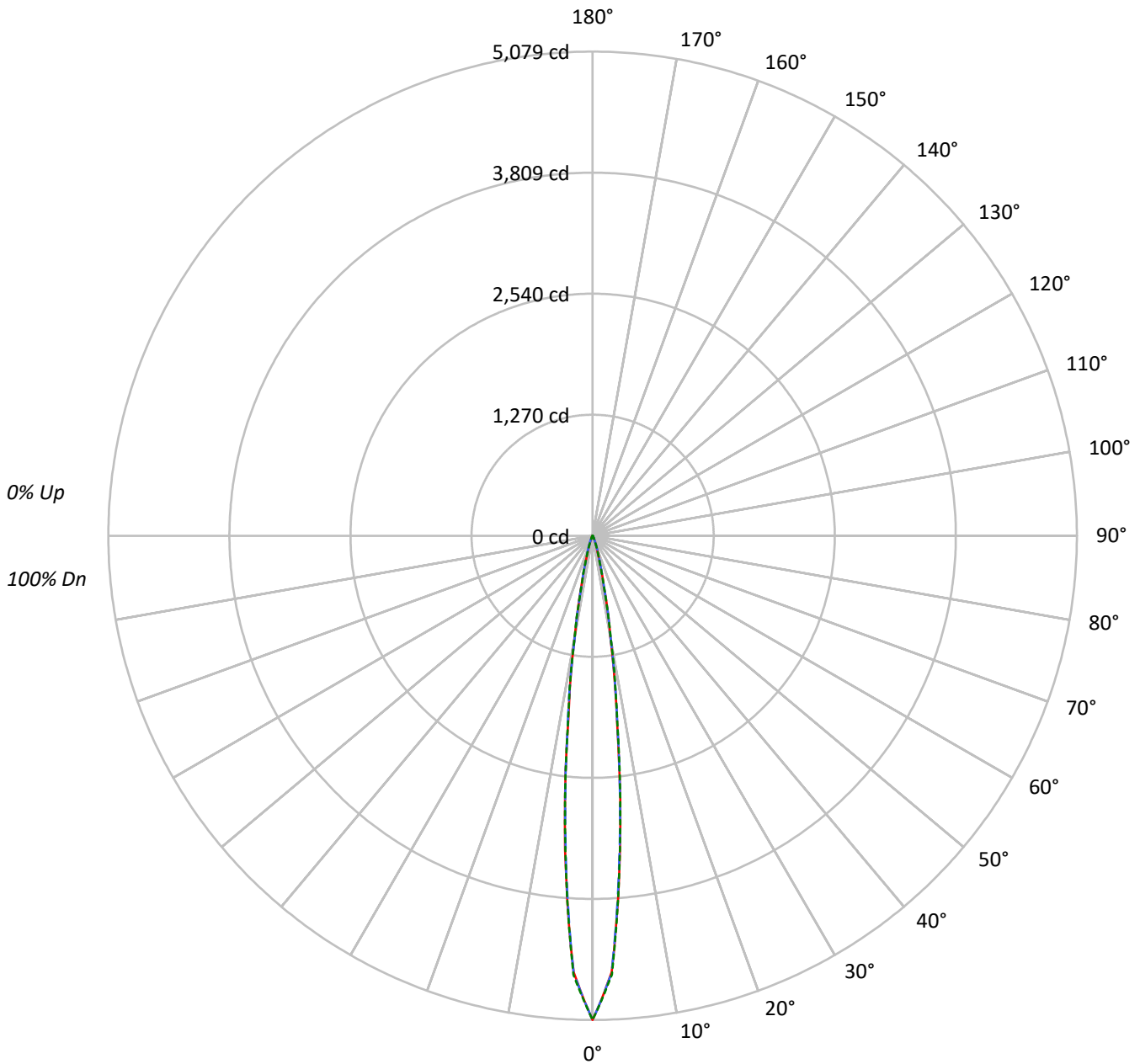


Downlight



TEST NUMBER: P738893
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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	99	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	106	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	94	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	88	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°	571523	571523	571523
5°	335853	331503	334125
10°	100240	100940	102480
15°	24937	25414	24633
20°	7462	8640	7618
25°	2633	3350	2664
30°	966	1273	981
35°	487	545	472
40°	305	334	305
45°	224	238	224
50°	181	181	181
55°	153	153	153
60°	119	119	119
65°	93	93	93
70°	80	80	80
75°	45	45	68
80°	32	32	32
85°	17	17	17

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 238 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.8	64.9
10°-20°	99.5	26.7
20°-30°	19.8	5.3
30°-40°	4.9	1.3
40°-50°	2.6	0.7
50°-60°	1.9	0.5
60°-70°	1.4	0.4
70°-80°	0.8	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°	361.0	96.8
0°-40°	365.9	98.2
0°-60°	370.5	99.4
0°-90°	372.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	372.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5079	5079	5079	5079	5079	
5°	3305	3271	3262	3284	3288	241
15°	287	292	293	288	284	98
25°	34	38	43	38	34	18
35°	7	7	8	7	6	5
45°	3	3	3	3	3	3
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	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5079.3	5079.3	5079.3	5079.3	5079.3
2.5°	4581.7	4585.6	4587.1	4591.6	4608.4
5°	3304.7	3270.7	3261.9	3284.5	3287.7
7.5°	1957.6	1964.5	1989.6	1995.2	1975.0
10°	1074.3	1083.1	1081.8	1089.5	1098.3
12.5°	549.4	542.5	540.4	549.2	536.9
15°	287.1	292.4	292.6	287.5	283.6
17.5°	154.4	160.6	170.9	162.6	149.7
20°	91.2	96.8	105.6	98.7	93.1
22.5°	56.3	60.9	67.1	61.7	57.2
25°	33.8	38.3	43.0	38.1	34.2
27.5°	20.0	23.9	26.9	23.7	19.8
30°	12.9	15.1	17.0	14.8	13.1
32.5°	9.0	9.9	10.8	9.9	9.0
35°	6.7	7.1	7.5	7.1	6.5
37.5°	5.2	5.6	5.8	5.4	4.9
40°	4.3	4.5	4.7	4.5	4.3
42.5°	3.7	3.9	3.9	3.9	3.7
45°	3.2	3.2	3.4	3.2	3.2
47.5°	2.8	2.8	3.0	2.8	2.8
50°	2.6	2.6	2.6	2.6	2.6
52.5°	2.4	2.4	2.4	2.4	2.4
55°	2.2	2.2	2.2	2.2	2.2
57.5°	1.9	1.9	1.9	1.9	1.9
60°	1.7	1.7	1.7	1.7	1.7
62.5°	1.5	1.5	1.5	1.5	1.5
65°	1.3	1.3	1.3	1.3	1.3
67.5°	1.3	1.3	1.3	1.3	1.3
70°	1.1	1.1	1.1	1.1	1.1
72.5°	0.9	0.9	0.9	0.9	0.9
75°	0.6	0.6	0.6	0.6	0.9
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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