

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: P738895

Luminaire Tested: LD4D02D010-EU4DR150210IC9050-4LBS1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P738895
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-EU4DR150210IC9050-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 417.0 lumens
Efficiency: N/A
Efficacy: 81.8 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 (Ain): 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

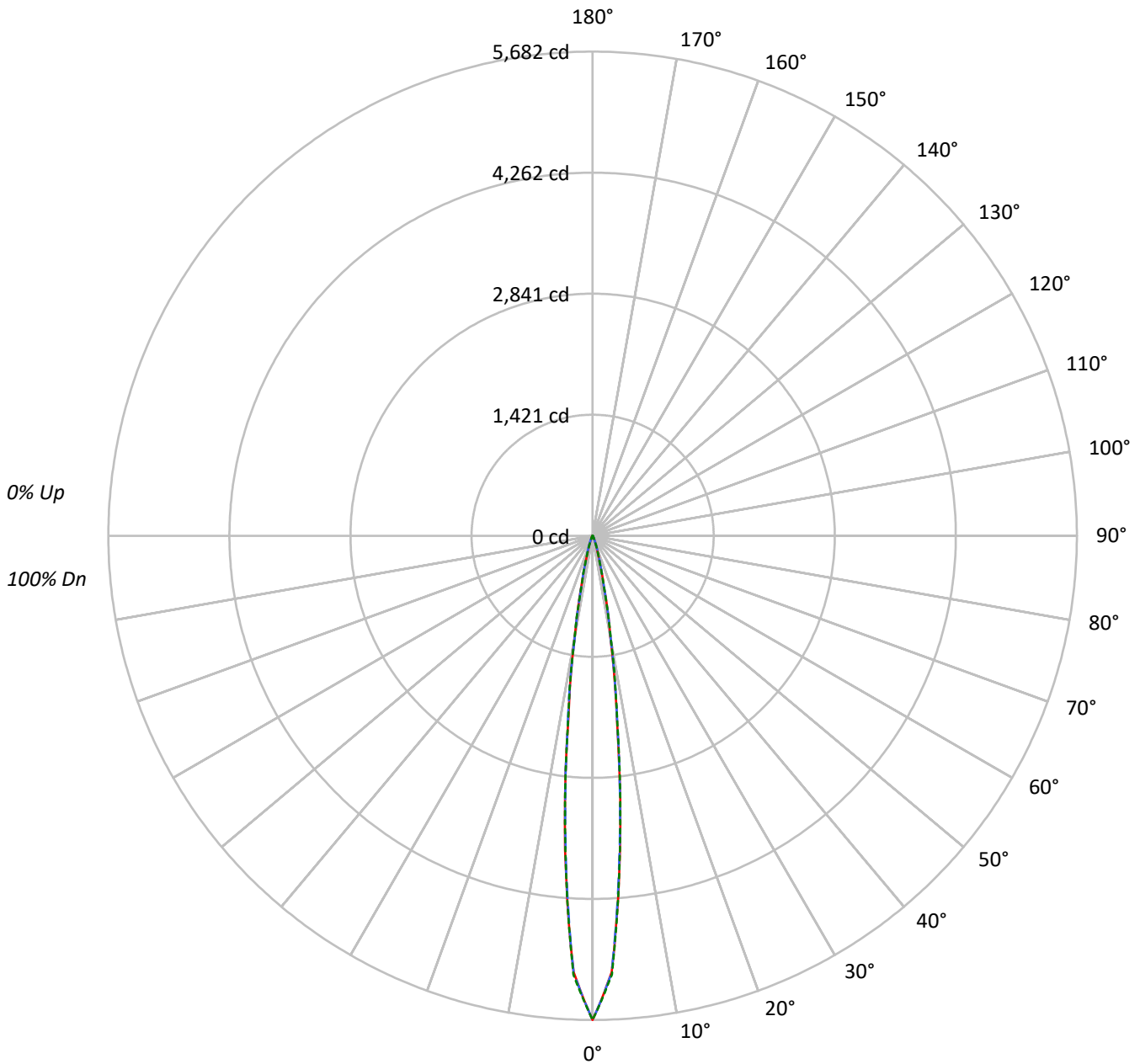


Downlight



TEST NUMBER: P738895
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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	106	101	98	95	104	100	97	95	99	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°	639395	639395	639395
5°	375732	370874	373801
10°	112137	112921	114656
15°	27890	28437	27560
20°	8346	9663	8526
25°	2945	3747	2976
30°	1078	1423	1101
35°	545	610	523
40°	341	376	341
45°	252	266	252
50°	202	202	202
55°	167	167	167
60°	133	133	133
65°	100	100	100
70°	88	88	88
75°	53	53	76
80°	39	39	39
85°	17	17	17

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 266 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.5	64.9
10°-20°	111.3	26.7
20°-30°	22.1	5.3
30°-40°	5.5	1.3
40°-50°	2.9	0.7
50°-60°	2.1	0.5
60°-70°	1.5	0.4
70°-80°	0.9	0.2
80°-90°	0.3	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°	403.9	96.8
0°-40°	409.4	98.2
0°-60°	414.4	99.4
0°-90°	417.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	417.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5682	5682	5682	5682	5682	
5°	3697	3659	3649	3674	3678	270
15°	321	327	327	322	317	110
25°	38	43	48	43	38	20
35°	8	8	8	8	7	5
45°	4	4	4	4	4	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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5682.5	5682.5	5682.5	5682.5	5682.5
2.5°	5125.8	5130.1	5131.8	5136.9	5155.6
5°	3697.1	3659.1	3649.3	3674.5	3678.1
7.5°	2190.0	2197.7	2225.9	2232.1	2209.5
10°	1201.8	1211.7	1210.2	1218.9	1228.8
12.5°	614.6	606.9	604.5	614.4	600.7
15°	321.1	327.2	327.4	321.6	317.3
17.5°	172.7	179.7	191.2	181.9	167.4
20°	102.0	108.3	118.1	110.4	104.2
22.5°	63.0	68.1	75.1	69.0	64.0
25°	37.8	42.8	48.1	42.6	38.2
27.5°	22.4	26.7	30.1	26.5	22.1
30°	14.4	16.8	19.0	16.6	14.7
32.5°	10.1	11.1	12.0	11.1	10.1
35°	7.5	7.9	8.4	7.9	7.2
37.5°	5.8	6.3	6.5	6.0	5.5
40°	4.8	5.1	5.3	5.1	4.8
42.5°	4.1	4.3	4.3	4.3	4.1
45°	3.6	3.6	3.8	3.6	3.6
47.5°	3.1	3.1	3.4	3.1	3.1
50°	2.9	2.9	2.9	2.9	2.9
52.5°	2.6	2.6	2.6	2.6	2.6
55°	2.4	2.4	2.4	2.4	2.4
57.5°	2.2	2.2	2.2	2.2	2.2
60°	1.9	1.9	1.9	1.9	1.9
62.5°	1.7	1.7	1.7	1.7	1.7
65°	1.4	1.4	1.4	1.4	1.4
67.5°	1.4	1.4	1.4	1.4	1.4
70°	1.2	1.2	1.2	1.2	1.2
72.5°	1.0	1.0	1.0	1.0	1.0
75°	0.7	0.7	0.7	0.7	1.0
77.5°	0.7	0.7	0.7	0.7	0.7
80°	0.5	0.5	0.5	0.5	0.5
82.5°	0.5	0.5	0.5	0.5	0.5
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

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Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

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