

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: P739841

Luminaire Tested: LD4D05D010-EU4DR150210IC9024-4LBDP1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P739841
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: LD4D05D010-EU4DR150210IC9024-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 542.3 lumens
Efficiency: N/A
Efficacy: 72.3 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): 7.5
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



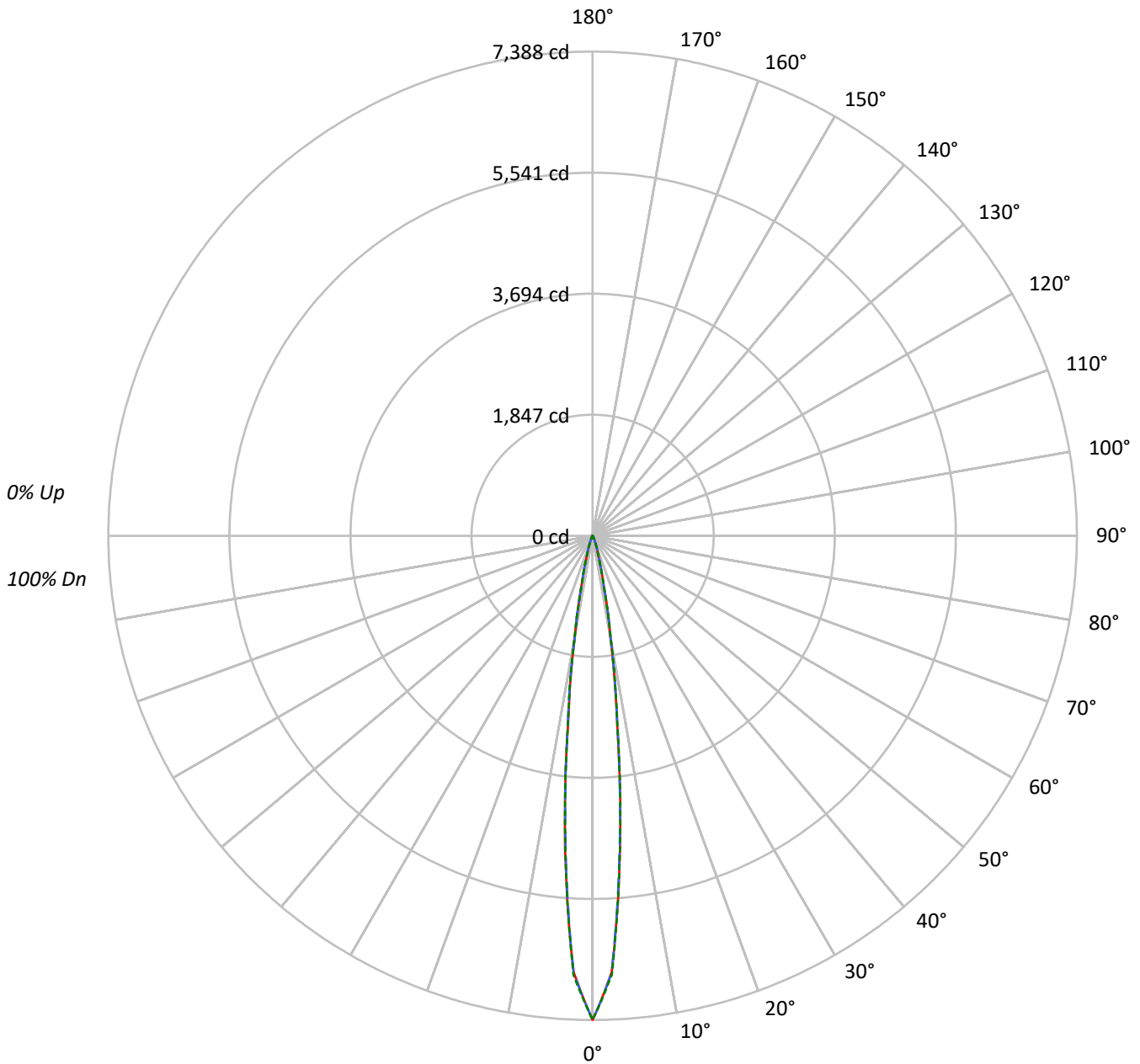
Downlight



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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	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°	831320	831320	831320
5°	488520	482199	486010
10°	145802	146819	149068
15°	36263	36975	35828
20°	10850	12568	11079
25°	3825	4877	3872
30°	1408	1850	1430
35°	704	792	683
40°	447	490	447
45°	329	350	329
50°	264	264	264
55°	216	216	216
60°	176	176	176
65°	136	136	136
70°	117	117	117
75°	68	68	98
80°	47	47	47
85°	25	25	25

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 350 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	351.7	64.9
10°-20°	144.7	26.7
20°-30°	28.7	5.3
30°-40°	7.2	1.3
40°-50°	3.8	0.7
50°-60°	2.8	0.5
60°-70°	2.0	0.4
70°-80°	1.1	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°	525.1	96.8
0°-40°	532.3	98.2
0°-60°	538.8	99.4
0°-90°	542.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	542.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7388	7388	7388	7388	7388	
5°	4807	4758	4745	4778	4782	351
15°	418	425	426	418	412	143
25°	49	56	63	55	50	26
35°	10	10	11	10	9	7
45°	5	5	5	5	5	4
55°	3	3	3	3	3	3
65°	2	2	2	2	2	2
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°	7388.2	7388.2	7388.2	7388.2	7388.2
2.5°	6664.5	6670.1	6672.3	6678.9	6703.3
5°	4806.9	4757.5	4744.7	4777.5	4782.2
7.5°	2847.4	2857.5	2894.0	2902.2	2872.8
10°	1562.6	1575.4	1573.5	1584.8	1597.6
12.5°	799.1	789.1	786.0	798.8	781.0
15°	417.5	425.4	425.7	418.2	412.5
17.5°	224.6	233.6	248.7	236.5	217.7
20°	132.6	140.7	153.6	143.6	135.4
22.5°	81.9	88.5	97.6	89.8	83.2
25°	49.1	55.7	62.6	55.4	49.7
27.5°	29.1	34.7	39.1	34.4	28.8
30°	18.8	21.9	24.7	21.6	19.1
32.5°	13.1	14.4	15.6	14.4	13.1
35°	9.7	10.3	10.9	10.3	9.4
37.5°	7.5	8.1	8.4	7.8	7.2
40°	6.3	6.6	6.9	6.6	6.3
42.5°	5.3	5.6	5.6	5.6	5.3
45°	4.7	4.7	5.0	4.7	4.7
47.5°	4.1	4.1	4.4	4.1	4.1
50°	3.8	3.8	3.8	3.8	3.8
52.5°	3.4	3.4	3.4	3.4	3.4
55°	3.1	3.1	3.1	3.1	3.1
57.5°	2.8	2.8	2.8	2.8	2.8
60°	2.5	2.5	2.5	2.5	2.5
62.5°	2.2	2.2	2.2	2.2	2.2
65°	1.9	1.9	1.9	1.9	1.9
67.5°	1.9	1.9	1.9	1.9	1.9
70°	1.6	1.6	1.6	1.6	1.6
72.5°	1.3	1.3	1.3	1.3	1.3
75°	0.9	0.9	0.9	0.9	1.3
77.5°	0.9	0.9	0.9	0.9	0.9
80°	0.6	0.6	0.6	0.6	0.6
82.5°	0.6	0.6	0.6	0.6	0.6
85°	0.3	0.3	0.3	0.3	0.3
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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