

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: P740868

Luminaire Tested: LD4D08D010-EU4DR150210IC9027-4LBDP1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P740868
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: LD4D08D010-EU4DR150210IC9027-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 708.2 lumens
Efficiency: N/A
Efficacy: 79.6 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): 8.9
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

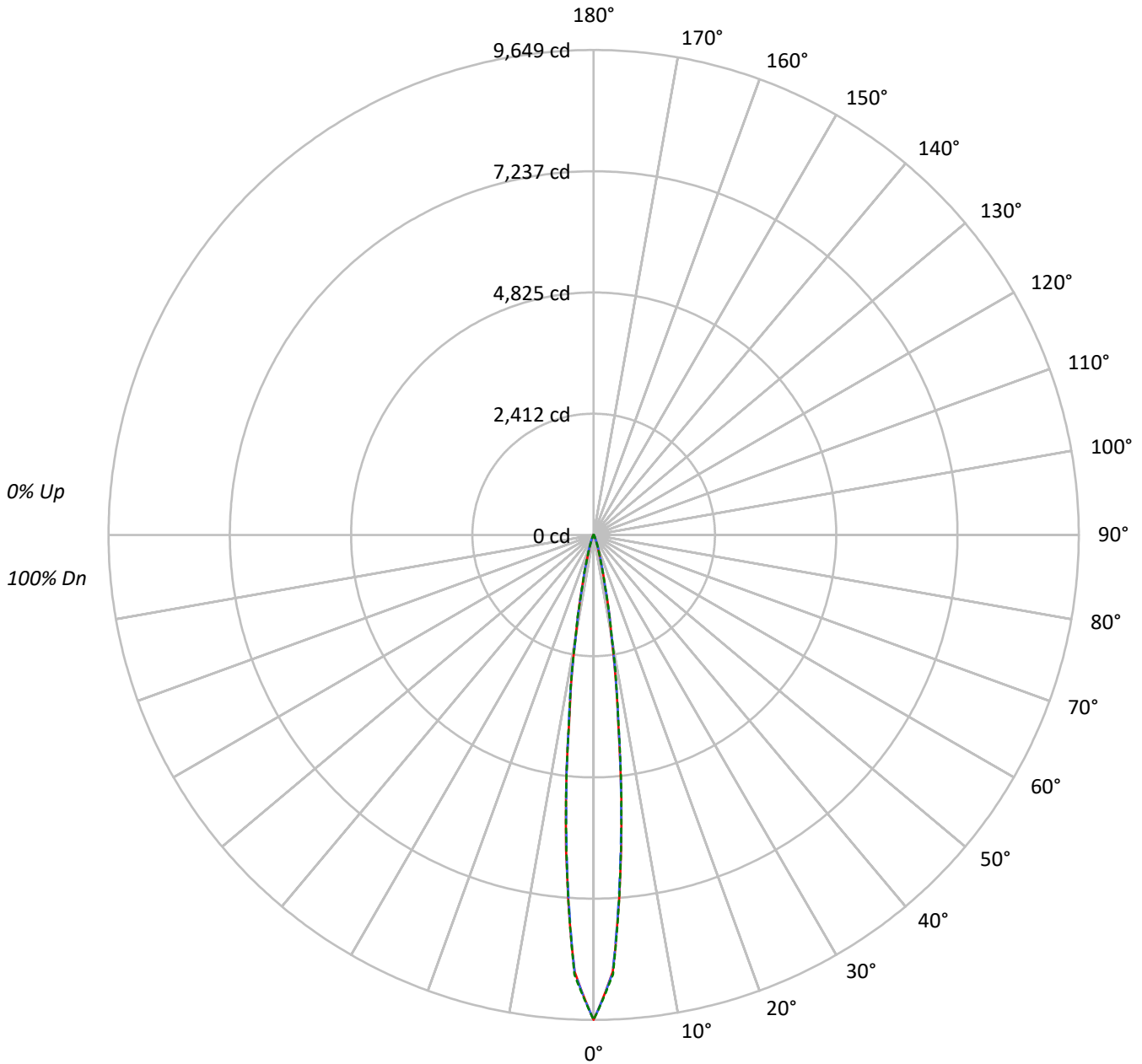


Downlight



TEST NUMBER: P740868
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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°	1085682	1085682	1085682
5°	637996	629744	634723
10°	190413	191747	194686
15°	47363	48284	46798
20°	14172	16414	14474
25°	4993	6364	5056
30°	1835	2419	1865
35°	922	1038	893
40°	582	639	582
45°	427	455	427
50°	341	341	341
55°	285	285	285
60°	232	232	232
65°	178	178	178
70°	146	146	146
75°	91	91	121
80°	63	63	63
85°	33	33	33

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 455 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	459.3	64.9
10°-20°	188.9	26.7
20°-30°	37.5	5.3
30°-40°	9.4	1.3
40°-50°	4.9	0.7
50°-60°	3.7	0.5
60°-70°	2.6	0.4
70°-80°	1.4	0.2
80°-90°	0.4	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°	685.8	96.8
0°-40°	695.1	98.2
0°-60°	703.7	99.4
0°-90°	708.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	708.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9649	9649	9649	9649	9649	
5°	6278	6213	6196	6239	6246	458
15°	545	556	556	546	539	187
25°	64	73	82	72	65	34
35°	13	14	14	14	12	9
45°	6	6	6	6	6	5
55°	4	4	4	4	4	4
65°	2	2	2	2	2	3
75°	1	1	1	1	2	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°	9648.8	9648.8	9648.8	9648.8	9648.8
2.5°	8703.6	8711.0	8713.8	8722.4	8754.3
5°	6277.7	6213.2	6196.5	6239.3	6245.5
7.5°	3718.7	3731.8	3779.6	3790.2	3751.8
10°	2040.7	2057.5	2055.0	2069.7	2086.5
12.5°	1043.6	1030.6	1026.5	1043.2	1019.9
15°	545.3	555.5	555.9	546.1	538.8
17.5°	293.3	305.1	324.7	308.8	284.3
20°	173.2	183.8	200.6	187.5	176.9
22.5°	107.0	115.6	127.4	117.2	108.7
25°	64.1	72.7	81.7	72.3	64.9
27.5°	38.0	45.3	51.1	44.9	37.6
30°	24.5	28.6	32.3	28.2	24.9
32.5°	17.2	18.8	20.4	18.8	17.2
35°	12.7	13.5	14.3	13.5	12.3
37.5°	9.8	10.6	11.0	10.2	9.4
40°	8.2	8.6	9.0	8.6	8.2
42.5°	6.9	7.4	7.4	7.4	6.9
45°	6.1	6.1	6.5	6.1	6.1
47.5°	5.3	5.3	5.7	5.3	5.3
50°	4.9	4.9	4.9	4.9	4.9
52.5°	4.5	4.5	4.5	4.5	4.5
55°	4.1	4.1	4.1	4.1	4.1
57.5°	3.7	3.7	3.7	3.7	3.7
60°	3.3	3.3	3.3	3.3	3.3
62.5°	2.9	2.9	2.9	2.9	2.9
65°	2.5	2.5	2.5	2.5	2.5
67.5°	2.5	2.5	2.5	2.5	2.5
70°	2.0	2.0	2.0	2.0	2.0
72.5°	1.6	1.6	1.6	1.6	1.6
75°	1.2	1.2	1.2	1.2	1.6
77.5°	1.2	1.2	1.2	1.2	1.2
80°	0.8	0.8	0.8	0.8	0.8
82.5°	0.8	0.8	0.8	0.8	0.8
85°	0.4	0.4	0.4	0.4	0.4
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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