

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: P741938

Luminaire Tested: LD4D10D010-EU4DR150210IC9050-4LBS1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P741938
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: LD4D10D010-EU4DR150210IC9050-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1082.0 lumens
Efficiency: N/A
Efficacy: 92.5 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): 11.7
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

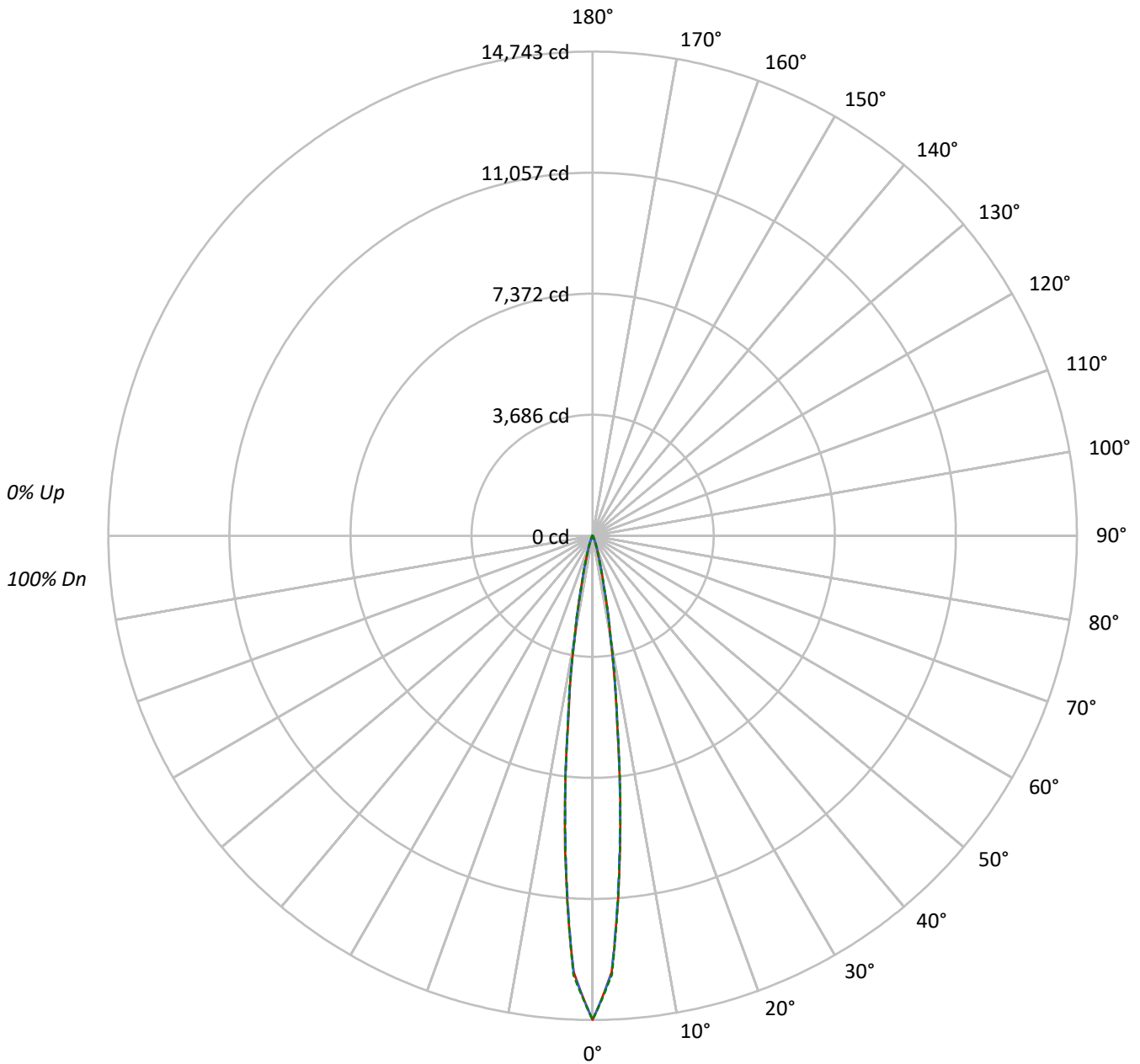


Downlight



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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	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°	1658837	1658837	1658837
5°	974814	962192	969804
10°	290933	292977	297455
15°	72369	73776	71501
20°	21650	25071	22109
25°	7634	9722	7728
30°	2801	3692	2853
35°	1402	1583	1358
40°	888	973	888
45°	658	700	658
50°	522	522	522
55°	432	432	432
60°	351	351	351
65°	264	264	264
70°	227	227	227
75°	144	144	189
80°	95	95	95
85°	50	50	50

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 700 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	701.8	64.9
10°-20°	288.7	26.7
20°-30°	57.3	5.3
30°-40°	14.3	1.3
40°-50°	7.5	0.7
50°-60°	5.6	0.5
60°-70°	3.9	0.4
70°-80°	2.2	0.2
80°-90°	0.7	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°	1047.8	96.8
0°-40°	1062.1	98.2
0°-60°	1075.2	99.4
0°-90°	1082.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1082.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14743	14743	14743	14743	14743	
5°	9592	9493	9468	9533	9543	700
15°	833	849	849	834	823	286
25°	98	111	125	110	99	51
35°	19	21	22	21	19	13
45°	9	9	10	9	9	7
55°	6	6	6	6	6	6
65°	4	4	4	4	4	4
75°	2	2	2	2	2	2
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	14742.6	14742.6	14742.6	14742.6	14742.6
2.5°	13298.4	13309.7	13314.0	13327.1	13375.8
5°	9591.9	9493.3	9467.7	9533.2	9542.6
7.5°	5681.9	5701.8	5774.8	5791.1	5732.4
10°	3118.0	3143.6	3139.9	3162.3	3187.9
12.5°	1594.6	1574.6	1568.4	1594.0	1558.4
15°	833.2	848.8	849.4	834.4	823.2
17.5°	448.1	466.2	496.2	471.8	434.4
20°	264.6	280.8	306.4	286.5	270.2
22.5°	163.5	176.6	194.7	179.1	166.0
25°	98.0	111.1	124.8	110.5	99.2
27.5°	58.0	69.3	78.0	68.7	57.4
30°	37.4	43.7	49.3	43.1	38.1
32.5°	26.2	28.7	31.2	28.7	26.2
35°	19.3	20.6	21.8	20.6	18.7
37.5°	15.0	16.2	16.9	15.6	14.4
40°	12.5	13.1	13.7	13.1	12.5
42.5°	10.6	11.2	11.2	11.2	10.6
45°	9.4	9.4	10.0	9.4	9.4
47.5°	8.1	8.1	8.7	8.1	8.1
50°	7.5	7.5	7.5	7.5	7.5
52.5°	6.9	6.9	6.9	6.9	6.9
55°	6.2	6.2	6.2	6.2	6.2
57.5°	5.6	5.6	5.6	5.6	5.6
60°	5.0	5.0	5.0	5.0	5.0
62.5°	4.4	4.4	4.4	4.4	4.4
65°	3.7	3.7	3.7	3.7	3.7
67.5°	3.7	3.7	3.7	3.7	3.7
70°	3.1	3.1	3.1	3.1	3.1
72.5°	2.5	2.5	2.5	2.5	2.5
75°	1.9	1.9	1.9	1.9	2.5
77.5°	1.9	1.9	1.9	1.9	1.9
80°	1.2	1.2	1.2	1.2	1.2
82.5°	1.2	1.2	1.2	1.2	1.2
85°	0.6	0.6	0.6	0.6	0.6
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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