

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: P741933

Luminaire Tested: LD4D10D010-EU4DR150210IC9050-4LBDP1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P741933
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-EU4DR150210IC9050-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF 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: 1136.2 lumens
Efficiency: N/A
Efficacy: 97.1 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): 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



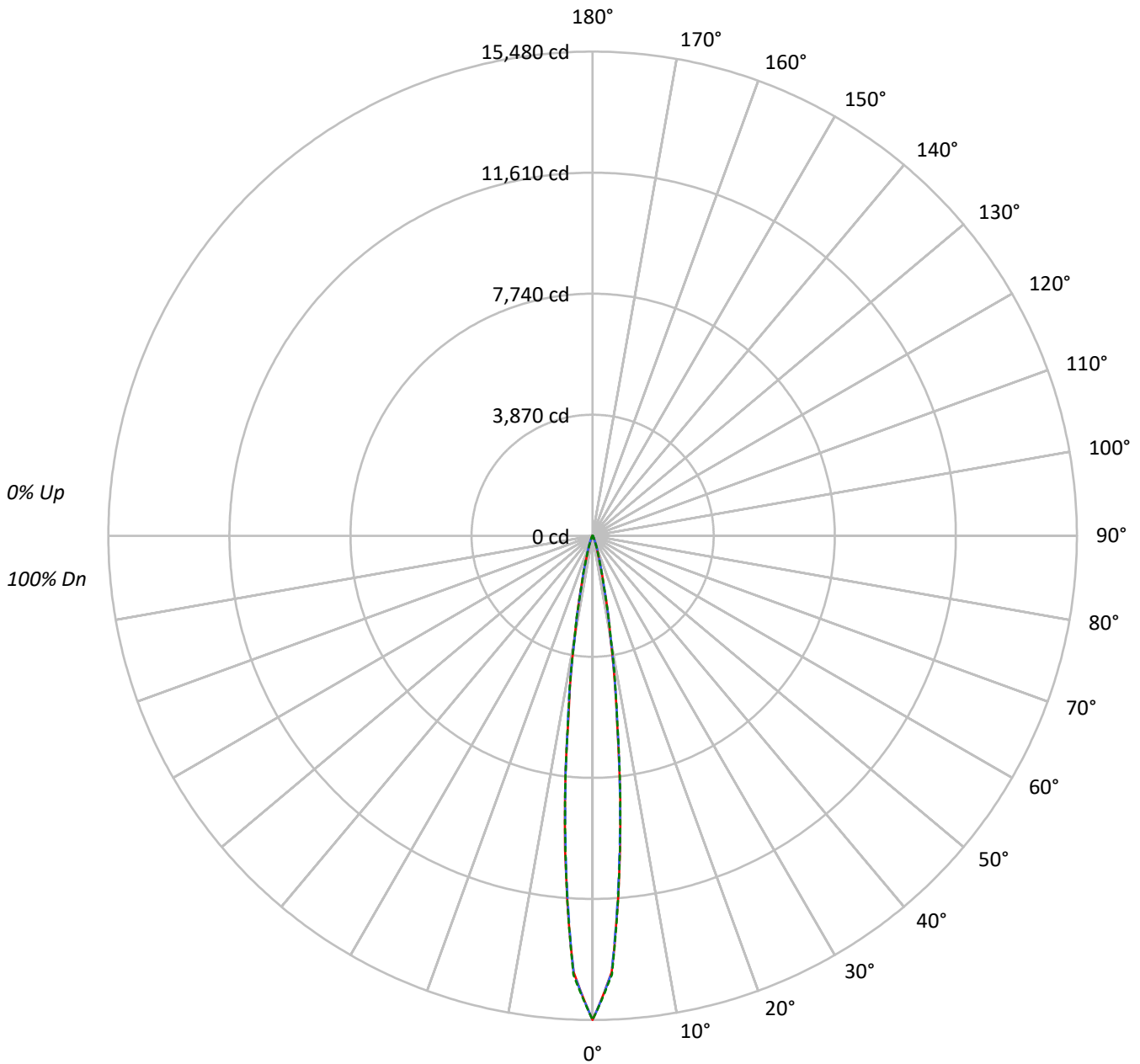
Downlight



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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	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°	1741786	1741786	1741786
5°	1023556	1010303	1018291
10°	305480	307626	312329
15°	75982	77468	75079
20°	22739	26331	23221
25°	8016	10213	8117
30°	2943	3879	2995
35°	1474	1663	1431
40°	930	1023	930
45°	686	735	686
50°	549	549	549
55°	459	459	459
60°	365	365	365
65°	278	278	278
70°	241	241	241
75°	151	151	197
80°	102	102	102
85°	58	58	58

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 735 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	736.9	64.9
10°-20°	303.1	26.7
20°-30°	60.2	5.3
30°-40°	15.0	1.3
40°-50°	7.9	0.7
50°-60°	5.9	0.5
60°-70°	4.1	0.4
70°-80°	2.4	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°	1100.2	96.8
0°-40°	1115.2	98.2
0°-60°	1129.0	99.4
0°-90°	1136.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1136.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15480	15480	15480	15480	15480	
5°	10072	9968	9941	10010	10020	735
15°	875	891	892	876	864	300
25°	103	117	131	116	104	54
35°	20	22	23	22	20	14
45°	10	10	10	10	10	8
55°	7	7	7	7	7	6
65°	4	4	4	4	4	4
75°	2	2	2	2	3	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°	15479.8	15479.8	15479.8	15479.8	15479.8
2.5°	13963.4	13975.2	13979.8	13993.6	14044.7
5°	10071.5	9968.0	9941.1	10009.9	10019.7
7.5°	5966.0	5986.9	6063.6	6080.7	6019.1
10°	3273.9	3300.8	3296.9	3320.5	3347.3
12.5°	1674.3	1653.4	1646.8	1673.7	1636.3
15°	874.8	891.2	891.9	876.2	864.4
17.5°	470.5	489.5	521.0	495.4	456.1
20°	277.9	294.9	321.8	300.8	283.8
22.5°	171.7	185.5	204.5	188.1	174.3
25°	102.9	116.6	131.1	116.0	104.2
27.5°	60.9	72.7	81.9	72.1	60.3
30°	39.3	45.9	51.8	45.2	40.0
32.5°	27.5	30.1	32.8	30.1	27.5
35°	20.3	21.6	22.9	21.6	19.7
37.5°	15.7	17.0	17.7	16.4	15.1
40°	13.1	13.8	14.4	13.8	13.1
42.5°	11.1	11.8	11.8	11.8	11.1
45°	9.8	9.8	10.5	9.8	9.8
47.5°	8.5	8.5	9.2	8.5	8.5
50°	7.9	7.9	7.9	7.9	7.9
52.5°	7.2	7.2	7.2	7.2	7.2
55°	6.6	6.6	6.6	6.6	6.6
57.5°	5.9	5.9	5.9	5.9	5.9
60°	5.2	5.2	5.2	5.2	5.2
62.5°	4.6	4.6	4.6	4.6	4.6
65°	3.9	3.9	3.9	3.9	3.9
67.5°	3.9	3.9	3.9	3.9	3.9
70°	3.3	3.3	3.3	3.3	3.3
72.5°	2.6	2.6	2.6	2.6	2.6
75°	2.0	2.0	2.0	2.0	2.6
77.5°	2.0	2.0	2.0	2.0	2.0
80°	1.3	1.3	1.3	1.3	1.3
82.5°	1.3	1.3	1.3	1.3	1.3
85°	0.7	0.7	0.7	0.7	0.7
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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