

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: P741928

Luminaire Tested: LD4D10D010-EU4DR150210IC9050-4LBCSSQMB

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P741928
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-EU4DR150210IC9050-4LBCSSQMB
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 990.8 lumens
Efficiency: N/A
Efficacy: 84.7 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 (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



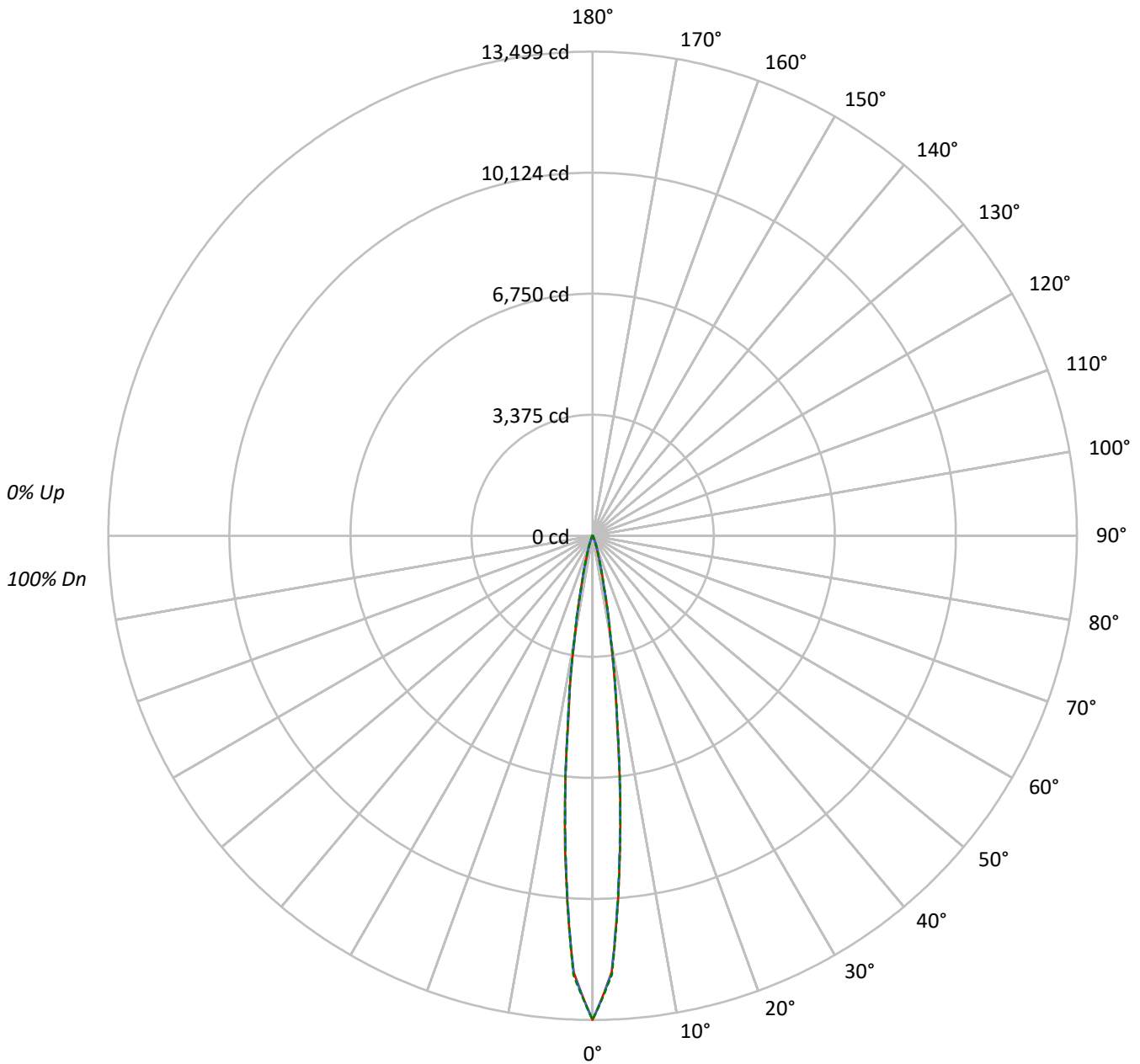
Downlight



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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°	1518941	1518941	1518941
5°	892597	881041	888013
10°	266403	268269	272374
15°	66263	67557	65473
20°	19826	22959	20243
25°	6988	8904	7081
30°	2568	3377	2613
35°	1285	1452	1242
40°	810	895	810
45°	602	637	602
50°	480	480	480
55°	397	397	397
60°	323	323	323
65°	243	243	243
70°	212	212	212
75°	128	128	174
80°	87	87	87
85°	50	50	50

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 637 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	642.6	64.9
10°-20°	264.3	26.7
20°-30°	52.5	5.3
30°-40°	13.1	1.3
40°-50°	6.9	0.7
50°-60°	5.1	0.5
60°-70°	3.6	0.4
70°-80°	2.1	0.2
80°-90°	0.6	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°	959.4	96.8
0°-40°	972.5	98.2
0°-60°	984.5	99.4
0°-90°	990.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	990.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13499	13499	13499	13499	13499	
5°	8783	8693	8669	8729	8738	641
15°	763	777	778	764	754	262
25°	90	102	114	101	91	47
35°	18	19	20	19	17	12
45°	9	9	9	9	9	7
55°	6	6	6	6	6	5
65°	3	3	3	3	3	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°	13499.3	13499.3	13499.3	13499.3	13499.3
2.5°	12176.9	12187.2	12191.2	12203.2	12247.7
5°	8782.9	8692.6	8669.2	8729.2	8737.8
7.5°	5202.7	5220.9	5287.8	5302.7	5249.0
10°	2855.1	2878.5	2875.1	2895.6	2919.1
12.5°	1460.1	1441.8	1436.1	1459.5	1427.0
15°	762.9	777.2	777.8	764.1	753.8
17.5°	410.3	426.9	454.3	432.0	397.7
20°	242.3	257.2	280.6	262.3	247.4
22.5°	149.7	161.7	178.3	164.0	152.0
25°	89.7	101.7	114.3	101.2	90.9
27.5°	53.1	63.4	71.4	62.9	52.6
30°	34.3	40.0	45.1	39.4	34.9
32.5°	24.0	26.3	28.6	26.3	24.0
35°	17.7	18.9	20.0	18.9	17.1
37.5°	13.7	14.9	15.4	14.3	13.1
40°	11.4	12.0	12.6	12.0	11.4
42.5°	9.7	10.3	10.3	10.3	9.7
45°	8.6	8.6	9.1	8.6	8.6
47.5°	7.4	7.4	8.0	7.4	7.4
50°	6.9	6.9	6.9	6.9	6.9
52.5°	6.3	6.3	6.3	6.3	6.3
55°	5.7	5.7	5.7	5.7	5.7
57.5°	5.1	5.1	5.1	5.1	5.1
60°	4.6	4.6	4.6	4.6	4.6
62.5°	4.0	4.0	4.0	4.0	4.0
65°	3.4	3.4	3.4	3.4	3.4
67.5°	3.4	3.4	3.4	3.4	3.4
70°	2.9	2.9	2.9	2.9	2.9
72.5°	2.3	2.3	2.3	2.3	2.3
75°	1.7	1.7	1.7	1.7	2.3
77.5°	1.7	1.7	1.7	1.7	1.7
80°	1.1	1.1	1.1	1.1	1.1
82.5°	1.1	1.1	1.1	1.1	1.1
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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