

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: P745796

Luminaire Tested: LD4D30D010-EU4DR1515309050-4LBCSSQMB

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P745796
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: LD4D30D010-EU4DR1515309050-4LBCSSQMB
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: 2655.2 lumens
Efficiency: N/A
Efficacy: 91.6 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): 29
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

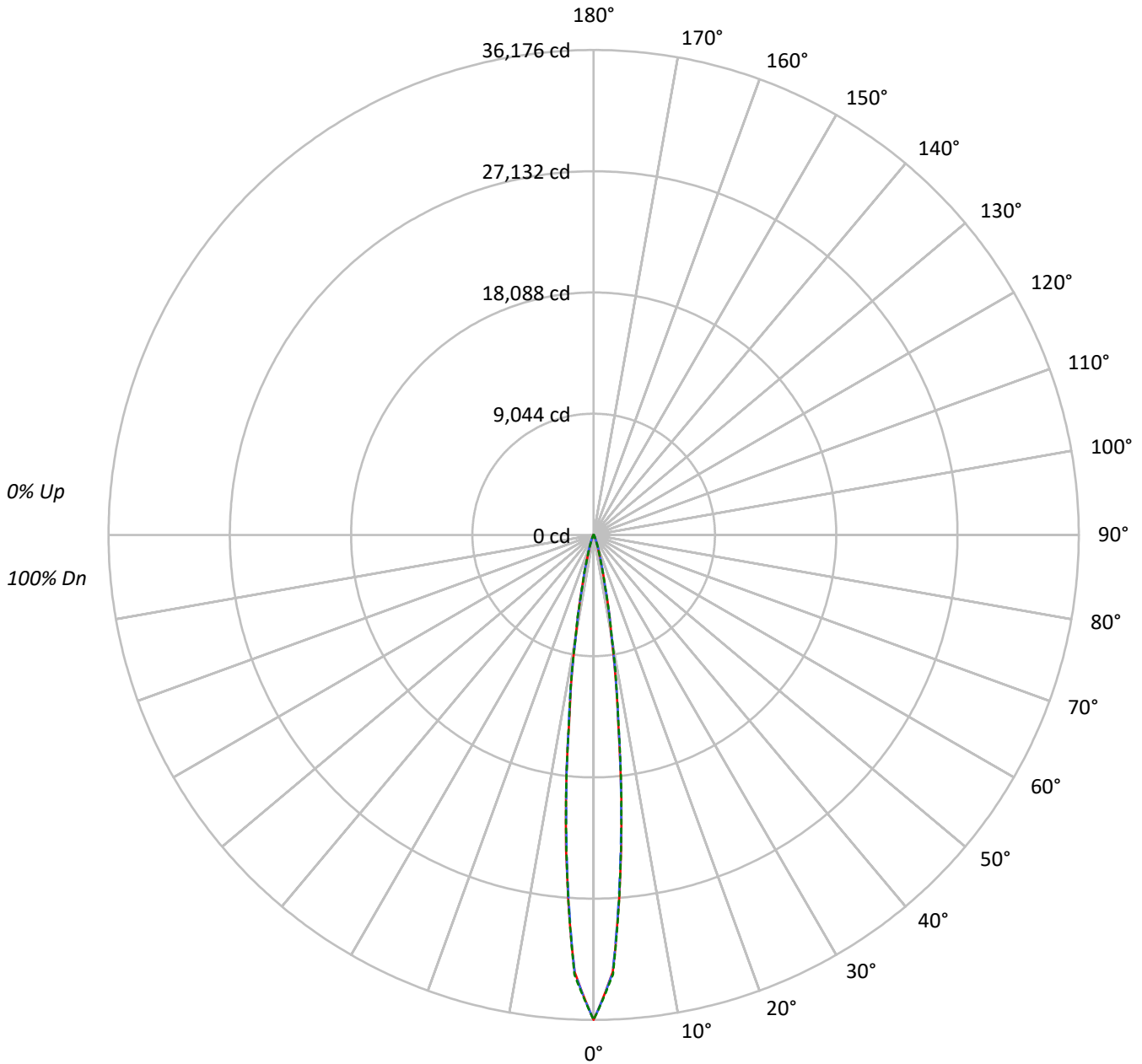


Downlight



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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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98																			
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	98	98	96																			
3	110	106	103	101	108	105	102	100	103	100	99	100	99	97	98	97	96	94																			
4	108	103	100	98	106	102	99	97	100	98	96	99	97	95	97	95	94	93																			
5	106	101	98	95	104	100	97	95	98	96	94	97	95	93	96	94	92	92																			
6	104	99	95	93	102	98	95	93	97	94	92	96	93	92	95	93	91	90																			
7	102	97	94	91	101	96	93	91	95	93	91	94	92	90	93	91	90	89																			
8	100	95	92	90	99	95	92	90	94	91	89	93	91	89	92	90	89	88																			
9	99	93	90	88	98	93	90	88	92	90	88	92	89	88	91	89	88	87																			
10	97	92	89	87	96	92	89	87	91	89	87	91	88	87	90	88	86	86																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4070578	4070578	4070578
5°	2392060	2361094	2379763
10°	713915	718916	729927
15°	177579	181036	175451
20°	53128	61531	54257
25°	18727	23861	18969
30°	6882	9061	6994
35°	3449	3892	3333
40°	2173	2393	2173
45°	1610	1715	1610
50°	1279	1279	1279
55°	1065	1065	1065
60°	864	864	864
65°	657	657	657
70°	563	563	563
75°	348	348	461
80°	244	244	244
85°	125	125	125

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1715 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1722.1	64.9
10°-20°	708.3	26.7
20°-30°	140.7	5.3
30°-40°	35.1	1.3
40°-50°	18.5	0.7
50°-60°	13.7	0.5
60°-70°	9.7	0.4
70°-80°	5.5	0.2
80°-90°	1.7	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°	2571.1	96.8
0°-40°	2606.2	98.2
0°-60°	2638.4	99.4
0°-90°	2655.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2655.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	36176	36176	36176	36176	36176	
5°	23537	23295	23232	23393	23416	1719
15°	2044	2083	2084	2048	2020	701
25°	240	273	306	271	244	126
35°	48	50	54	50	46	32
45°	23	23	24	23	23	18
55°	15	15	15	15	15	14
65°	9	9	9	9	9	10
75°	5	5	5	5	6	5
85°	2	2	2	2	2	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	36176.5	36176.5	36176.5	36176.5	36176.5
2.5°	32632.7	32660.2	32670.9	32703.1	32822.6
5°	23537.2	23295.3	23232.5	23393.3	23416.2
7.5°	13942.5	13991.6	14170.7	14210.6	14066.6
10°	7651.2	7714.0	7704.8	7760.0	7822.8
12.5°	3912.9	3863.9	3848.6	3911.4	3824.1
15°	2044.5	2082.8	2084.3	2047.6	2020.0
17.5°	1099.6	1144.0	1217.5	1157.8	1065.9
20°	649.3	689.2	752.0	702.9	663.1
22.5°	401.2	433.4	477.8	439.5	407.4
25°	240.4	272.6	306.3	271.1	243.5
27.5°	142.4	170.0	191.4	168.5	140.9
30°	91.9	107.2	121.0	105.7	93.4
32.5°	64.3	70.4	76.6	70.4	64.3
35°	47.5	50.5	53.6	50.5	45.9
37.5°	36.8	39.8	41.3	38.3	35.2
40°	30.6	32.2	33.7	32.2	30.6
42.5°	26.0	27.6	27.6	27.6	26.0
45°	23.0	23.0	24.5	23.0	23.0
47.5°	19.9	19.9	21.4	19.9	19.9
50°	18.4	18.4	18.4	18.4	18.4
52.5°	16.8	16.8	16.8	16.8	16.8
55°	15.3	15.3	15.3	15.3	15.3
57.5°	13.8	13.8	13.8	13.8	13.8
60°	12.3	12.3	12.3	12.3	12.3
62.5°	10.7	10.7	10.7	10.7	10.7
65°	9.2	9.2	9.2	9.2	9.2
67.5°	9.2	9.2	9.2	9.2	9.2
70°	7.7	7.7	7.7	7.7	7.7
72.5°	6.1	6.1	6.1	6.1	6.1
75°	4.6	4.6	4.6	4.6	6.1
77.5°	4.6	4.6	4.6	4.6	4.6
80°	3.1	3.1	3.1	3.1	3.1
82.5°	3.1	3.1	3.1	3.1	3.1
85°	1.5	1.5	1.5	1.5	1.5
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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