

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P742900

Luminaire Tested: LD4D15D010-EU4DR1515309027-4LBSQW1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P742900
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: LD4D15D010-EU4DR1515309027-4LBSQW1MW
Description: 4 INCH SQAURE 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: 1193.1 lumens
Efficiency: N/A
Efficacy: 75.5 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): 15.8
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

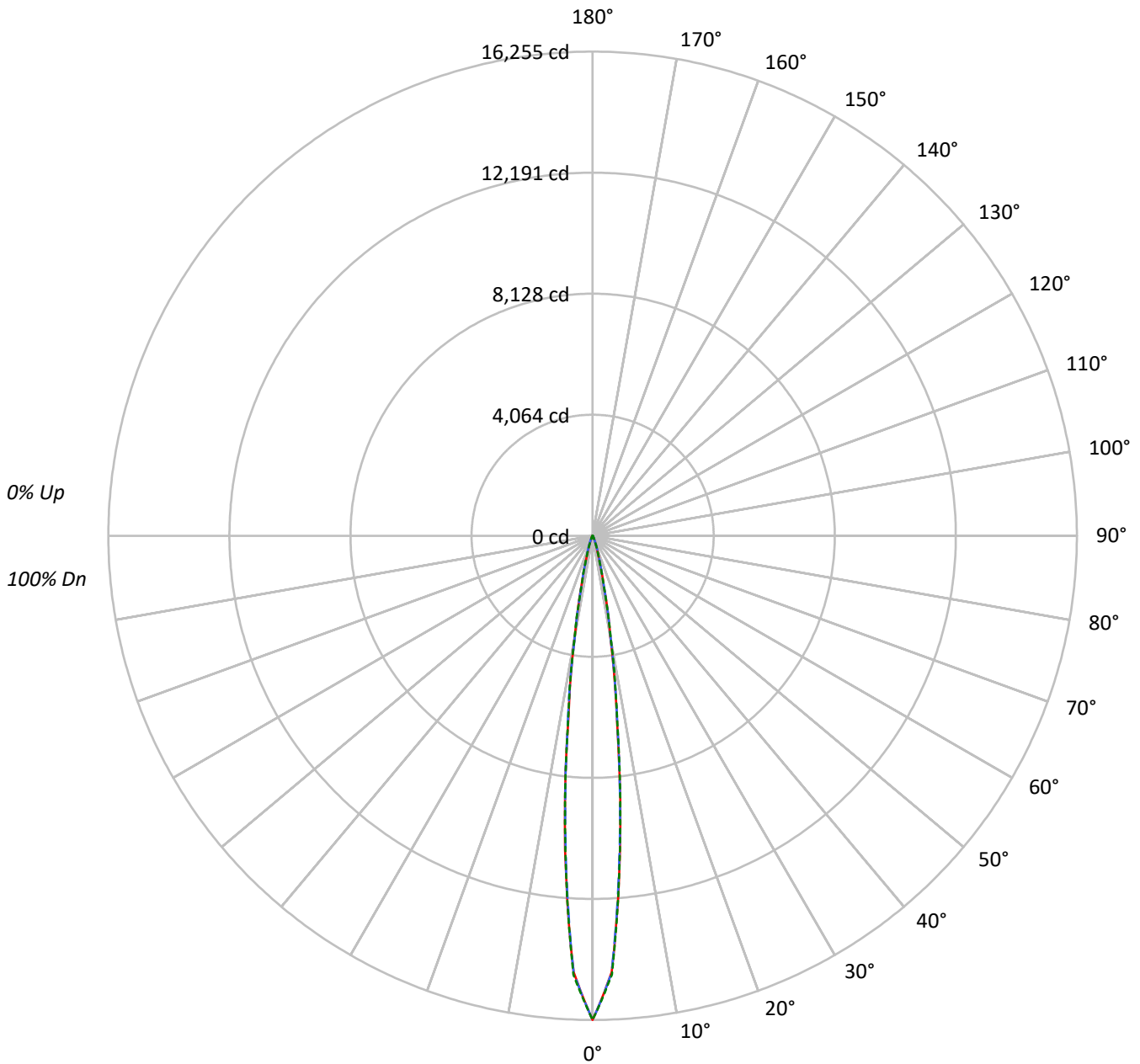


Downlight



TEST NUMBER: P742900
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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	87	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°	1829012	1829012	1829012
5°	1074817	1060904	1069289
10°	320782	323031	327976
15°	79795	81341	78831
20°	23876	27648	24383
25°	8413	10719	8522
30°	3093	4074	3145
35°	1547	1750	1496
40°	980	1072	980
45°	721	770	721
50°	577	577	577
55°	480	480	480
60°	386	386	386
65°	293	293	293
70°	249	249	249
75°	159	159	212
80°	110	110	110
85°	58	58	58

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 770 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	773.8	64.9
10°-20°	318.3	26.7
20°-30°	63.2	5.3
30°-40°	15.8	1.3
40°-50°	8.3	0.7
50°-60°	6.2	0.5
60°-70°	4.3	0.4
70°-80°	2.5	0.2
80°-90°	0.8	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°	1155.3	96.8
0°-40°	1171.1	98.2
0°-60°	1185.5	99.4
0°-90°	1193.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1193.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16255	16255	16255	16255	16255	
5°	10576	10467	10439	10511	10522	772
15°	919	936	936	920	908	315
25°	108	122	138	122	109	57
35°	21	23	24	23	21	14
45°	10	10	11	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°	16255.0	16255.0	16255.0	16255.0	16255.0
2.5°	14662.7	14675.1	14679.9	14694.4	14748.0
5°	10575.9	10467.2	10439.0	10511.2	10521.5
7.5°	6264.7	6286.8	6367.3	6385.2	6320.5
10°	3437.9	3466.1	3462.0	3486.8	3515.0
12.5°	1758.2	1736.2	1729.3	1757.5	1718.3
15°	918.7	935.9	936.5	920.0	907.6
17.5°	494.1	514.0	547.1	520.2	478.9
20°	291.8	309.7	337.9	315.9	298.0
22.5°	180.3	194.7	214.7	197.5	183.0
25°	108.0	122.5	137.6	121.8	109.4
27.5°	64.0	76.4	86.0	75.7	63.3
30°	41.3	48.2	54.4	47.5	42.0
32.5°	28.9	31.7	34.4	31.7	28.9
35°	21.3	22.7	24.1	22.7	20.6
37.5°	16.5	17.9	18.6	17.2	15.8
40°	13.8	14.5	15.1	14.5	13.8
42.5°	11.7	12.4	12.4	12.4	11.7
45°	10.3	10.3	11.0	10.3	10.3
47.5°	8.9	8.9	9.6	8.9	8.9
50°	8.3	8.3	8.3	8.3	8.3
52.5°	7.6	7.6	7.6	7.6	7.6
55°	6.9	6.9	6.9	6.9	6.9
57.5°	6.2	6.2	6.2	6.2	6.2
60°	5.5	5.5	5.5	5.5	5.5
62.5°	4.8	4.8	4.8	4.8	4.8
65°	4.1	4.1	4.1	4.1	4.1
67.5°	4.1	4.1	4.1	4.1	4.1
70°	3.4	3.4	3.4	3.4	3.4
72.5°	2.8	2.8	2.8	2.8	2.8
75°	2.1	2.1	2.1	2.1	2.8
77.5°	2.1	2.1	2.1	2.1	2.1
80°	1.4	1.4	1.4	1.4	1.4
82.5°	1.4	1.4	1.4	1.4	1.4
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

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Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

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