

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: P742890

Luminaire Tested: LD4D15D010-EU4DR1515309027-4LBCSSQMW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P742890
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-EU4DR1515309027-4LBCSSQMW
Description: 4 INCH SQAURE SHALLOW CAST 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: 1237.1 lumens
Efficiency: N/A
Efficacy: 78.3 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

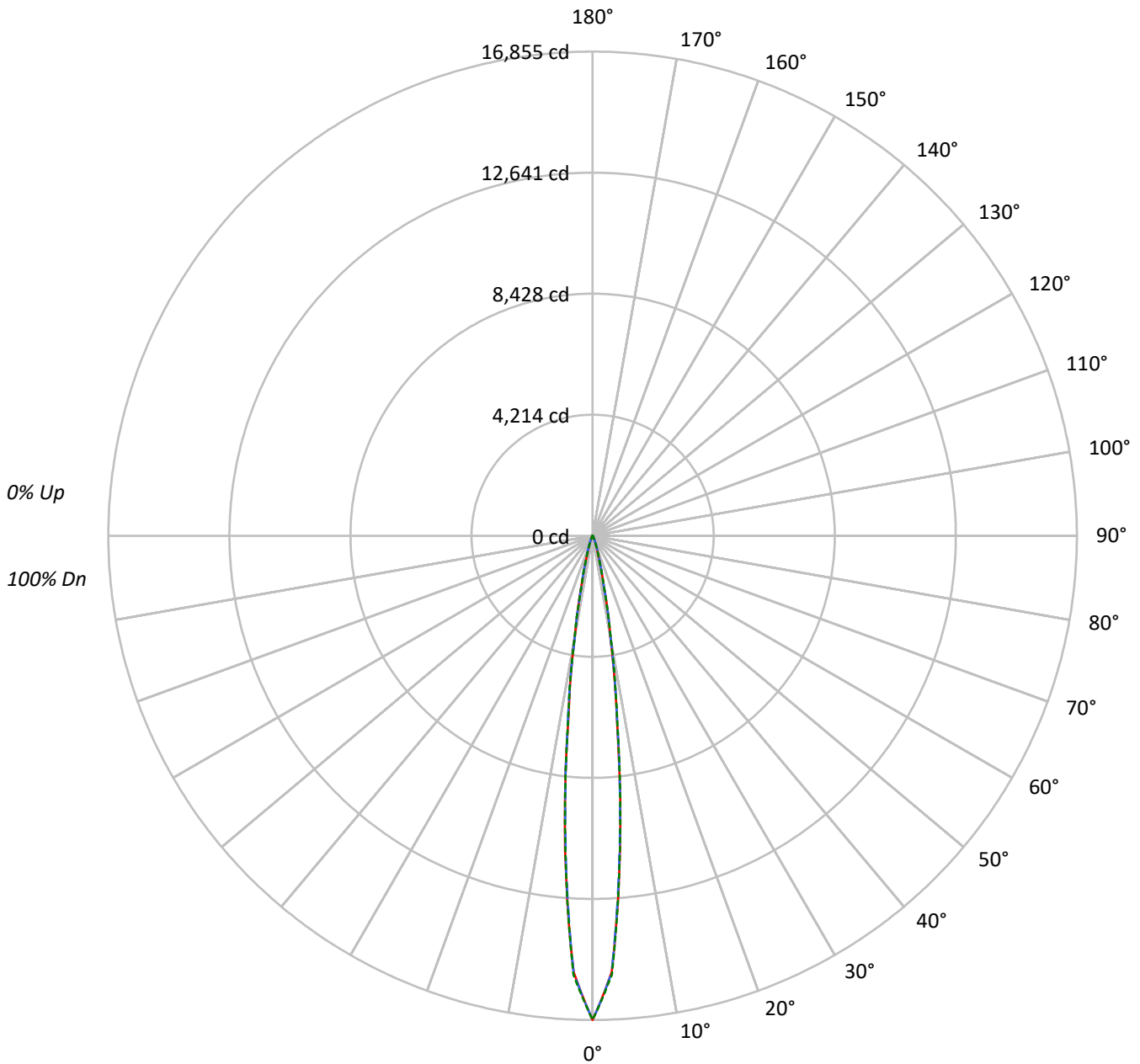


Downlight



TEST NUMBER: P742890
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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°	1896524	1896524	1896524
5°	1114483	1100052	1108761
10°	332623	334956	340078
15°	82740	84347	81741
20°	24751	28663	25283
25°	8725	11116	8842
30°	3205	4223	3257
35°	1605	1815	1554
40°	1016	1115	1016
45°	749	798	749
50°	598	598	598
55°	494	494	494
60°	400	400	400
65°	307	307	307
70°	263	263	263
75°	159	159	219
80°	110	110	110
85°	58	58	58

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 798 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	802.3	64.9
10°-20°	330.0	26.7
20°-30°	65.5	5.3
30°-40°	16.4	1.3
40°-50°	8.6	0.7
50°-60°	6.4	0.5
60°-70°	4.5	0.4
70°-80°	2.6	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°	1197.9	96.8
0°-40°	1214.3	98.2
0°-60°	1229.2	99.4
0°-90°	1237.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1237.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16855	16855	16855	16855	16855	
5°	10966	10854	10824	10899	10910	801
15°	953	970	971	954	941	327
25°	112	127	143	126	114	59
35°	22	24	25	24	21	15
45°	11	11	11	11	11	8
55°	7	7	7	7	7	6
65°	4	4	4	4	4	5
75°	2	2	2	2	3	3
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°	16855.0	16855.0	16855.0	16855.0	16855.0
2.5°	15203.9	15216.7	15221.7	15236.7	15292.4
5°	10966.2	10853.5	10824.2	10899.2	10909.9
7.5°	6496.0	6518.8	6602.3	6620.8	6553.8
10°	3564.8	3594.0	3589.8	3615.5	3644.7
12.5°	1823.1	1800.2	1793.1	1822.4	1781.7
15°	952.6	970.4	971.1	954.0	941.1
17.5°	512.3	533.0	567.3	539.4	496.6
20°	302.5	321.1	350.3	327.5	309.0
22.5°	186.9	201.9	222.6	204.8	189.8
25°	112.0	127.0	142.7	126.3	113.5
27.5°	66.4	79.2	89.2	78.5	65.6
30°	42.8	49.9	56.4	49.2	43.5
32.5°	30.0	32.8	35.7	32.8	30.0
35°	22.1	23.5	25.0	23.5	21.4
37.5°	17.1	18.6	19.3	17.8	16.4
40°	14.3	15.0	15.7	15.0	14.3
42.5°	12.1	12.8	12.8	12.8	12.1
45°	10.7	10.7	11.4	10.7	10.7
47.5°	9.3	9.3	10.0	9.3	9.3
50°	8.6	8.6	8.6	8.6	8.6
52.5°	7.8	7.8	7.8	7.8	7.8
55°	7.1	7.1	7.1	7.1	7.1
57.5°	6.4	6.4	6.4	6.4	6.4
60°	5.7	5.7	5.7	5.7	5.7
62.5°	5.0	5.0	5.0	5.0	5.0
65°	4.3	4.3	4.3	4.3	4.3
67.5°	4.3	4.3	4.3	4.3	4.3
70°	3.6	3.6	3.6	3.6	3.6
72.5°	2.9	2.9	2.9	2.9	2.9
75°	2.1	2.1	2.1	2.1	2.9
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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