

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: P744860

Luminaire Tested: LD4D25D010-EU4DR1515309050-4LBCSSQMB

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P744860
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: LD4D25D010-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: 2362.4 lumens
Efficiency: N/A
Efficacy: 94.1 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): 25.1
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

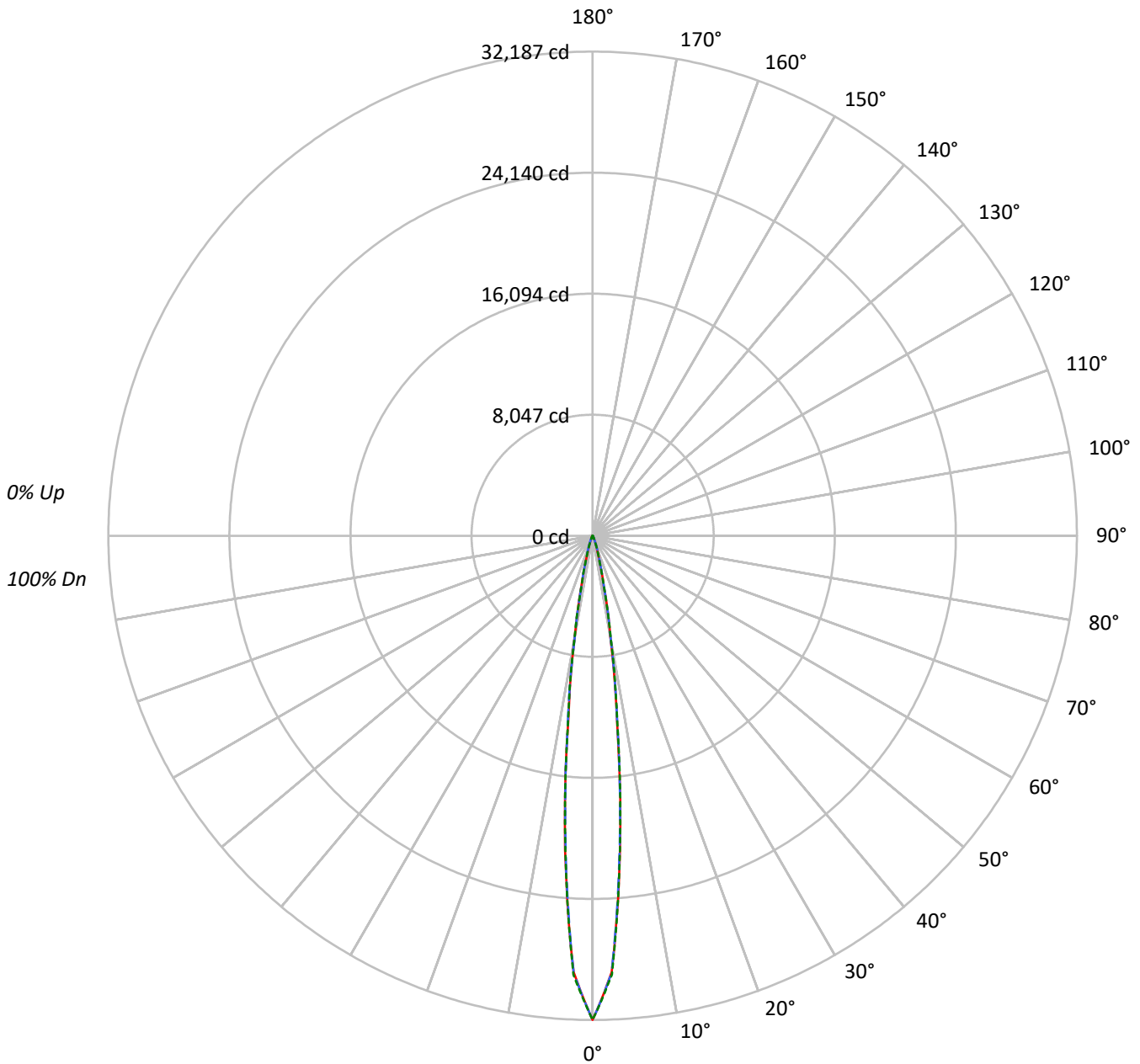


Downlight



TEST NUMBER: P744860
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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°	3621635	3621635	3621635
5°	2128241	2100690	2117306
10°	635182	639633	649421
15°	157993	161076	156099
20°	47269	54739	48275
25°	16663	21228	16873
30°	6125	8057	6223
35°	3065	3464	2970
40°	1939	2130	1939
45°	1428	1526	1428
50°	1140	1140	1140
55°	947	947	947
60°	765	765	765
65°	585	585	585
70°	497	497	497
75°	310	310	416
80°	213	213	213
85°	116	116	116

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1526 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1532.1	64.9
10°-20°	630.2	26.7
20°-30°	125.2	5.3
30°-40°	31.2	1.3
40°-50°	16.4	0.7
50°-60°	12.2	0.5
60°-70°	8.6	0.4
70°-80°	4.9	0.2
80°-90°	1.5	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°	2287.5	96.8
0°-40°	2318.8	98.2
0°-60°	2347.4	99.4
0°-90°	2362.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2362.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	32187	32187	32187	32187	32187	
5°	20941	20726	20670	20813	20834	1529
15°	1819	1853	1854	1822	1797	624
25°	214	242	272	241	217	112
35°	42	45	48	45	41	29
45°	20	20	22	20	20	16
55°	14	14	14	14	14	12
65°	8	8	8	8	8	9
75°	4	4	4	4	6	5
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°	32186.6	32186.6	32186.6	32186.6	32186.6
2.5°	29033.6	29058.2	29067.7	29096.3	29202.6
5°	20941.3	20726.0	20670.2	20813.3	20833.7
7.5°	12404.8	12448.4	12607.9	12643.3	12515.2
10°	6807.4	6863.3	6855.1	6904.1	6960.0
12.5°	3481.4	3437.8	3424.1	3480.0	3402.3
15°	1819.0	1853.1	1854.5	1821.8	1797.2
17.5°	978.3	1017.8	1083.2	1030.1	948.3
20°	577.7	613.2	669.0	625.4	590.0
22.5°	357.0	385.6	425.1	391.1	362.4
25°	213.9	242.5	272.5	241.2	216.6
27.5°	126.7	151.2	170.3	149.9	125.4
30°	81.8	95.4	107.6	94.0	83.1
32.5°	57.2	62.7	68.1	62.7	57.2
35°	42.2	45.0	47.7	45.0	40.9
37.5°	32.7	35.4	36.8	34.1	31.3
40°	27.3	28.6	30.0	28.6	27.3
42.5°	23.2	24.5	24.5	24.5	23.2
45°	20.4	20.4	21.8	20.4	20.4
47.5°	17.7	17.7	19.1	17.7	17.7
50°	16.4	16.4	16.4	16.4	16.4
52.5°	15.0	15.0	15.0	15.0	15.0
55°	13.6	13.6	13.6	13.6	13.6
57.5°	12.3	12.3	12.3	12.3	12.3
60°	10.9	10.9	10.9	10.9	10.9
62.5°	9.5	9.5	9.5	9.5	9.5
65°	8.2	8.2	8.2	8.2	8.2
67.5°	8.2	8.2	8.2	8.2	8.2
70°	6.8	6.8	6.8	6.8	6.8
72.5°	5.5	5.5	5.5	5.5	5.5
75°	4.1	4.1	4.1	4.1	5.5
77.5°	4.1	4.1	4.1	4.1	4.1
80°	2.7	2.7	2.7	2.7	2.7
82.5°	2.7	2.7	2.7	2.7	2.7
85°	1.4	1.4	1.4	1.4	1.4
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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