

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: P744847

Luminaire Tested: LD4D25D010-EU4DR1515309040-4LBCSSQMB

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P744847
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-EU4DR1515309040-4LBCSSQMB
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2390.6 lumens
Efficiency: N/A
Efficacy: 95.2 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

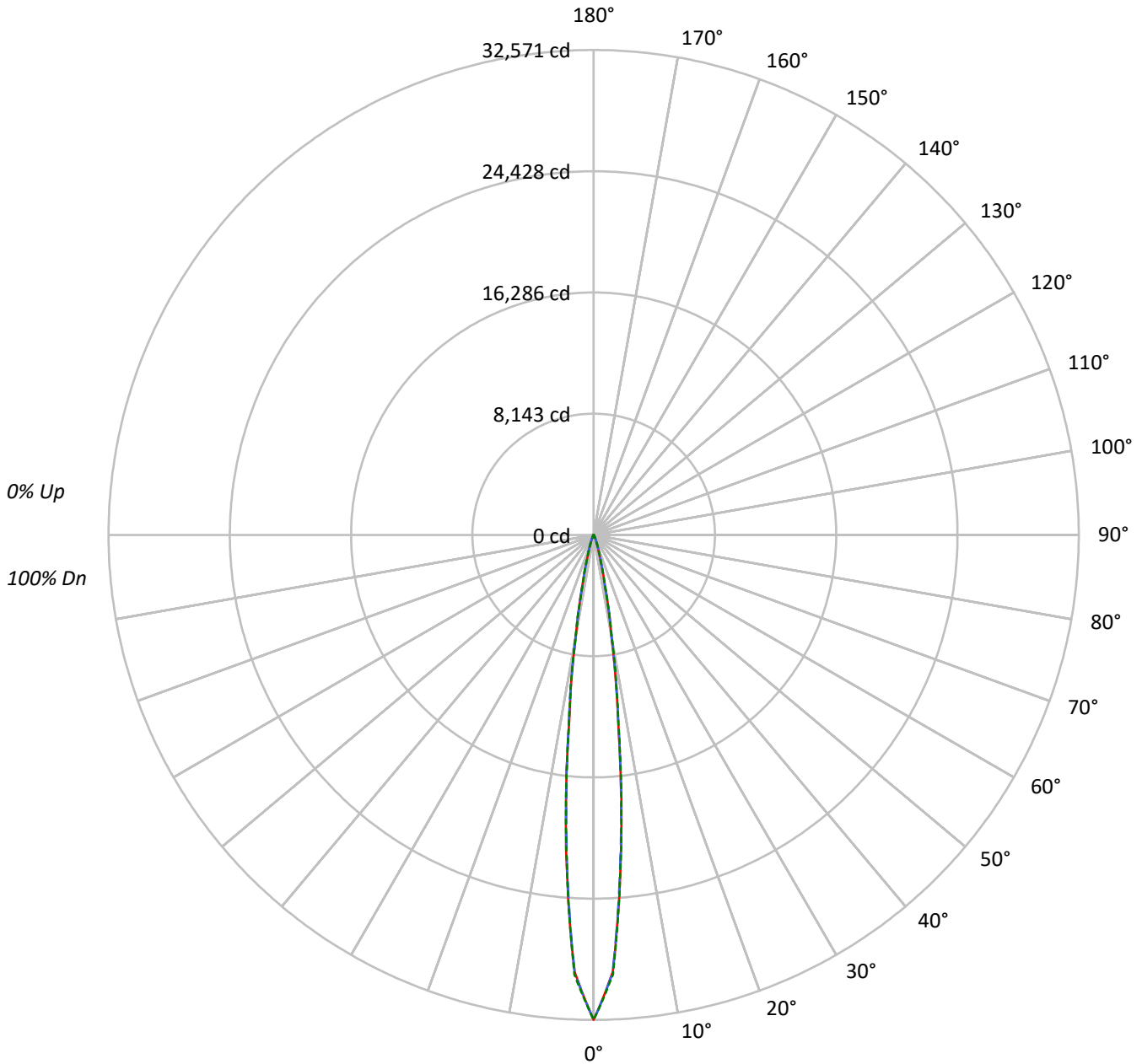


Downlight



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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					70					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°	3664854	3664854	3664854
5°	2153638	2125751	2142571
10°	642759	647265	657175
15°	159877	162996	157967
20°	47834	55394	48848
25°	16866	21485	17076
30°	6193	8155	6298
35°	3101	3508	3006
40°	1960	2152	1960
45°	1449	1547	1449
50°	1147	1147	1147
55°	961	961	961
60°	772	772	772
65°	592	592	592
70°	505	505	505
75°	310	310	416
80°	221	221	221
85°	116	116	116

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1547 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1550.4	64.9
10°-20°	637.7	26.7
20°-30°	126.7	5.3
30°-40°	31.6	1.3
40°-50°	16.6	0.7
50°-60°	12.3	0.5
60°-70°	8.7	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°	2314.8	96.8
0°-40°	2346.5	98.2
0°-60°	2375.4	99.4
0°-90°	2390.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2390.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	32571	32571	32571	32571	32571	
5°	21191	20973	20917	21062	21082	1547
15°	1841	1875	1877	1844	1819	631
25°	216	245	276	244	219	114
35°	43	46	48	46	41	29
45°	21	21	22	21	21	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	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	32570.7	32570.7	32570.7	32570.7	32570.7
2.5°	29380.1	29404.9	29414.6	29443.5	29551.1
5°	21191.2	20973.4	20916.8	21061.6	21082.3
7.5°	12552.9	12597.0	12758.3	12794.2	12664.5
10°	6888.6	6945.2	6936.9	6986.5	7043.1
12.5°	3522.9	3478.8	3465.0	3521.5	3442.9
15°	1840.7	1875.2	1876.6	1843.5	1818.7
17.5°	990.0	1030.0	1096.2	1042.4	959.7
20°	584.6	620.5	677.0	632.9	597.0
22.5°	361.3	390.2	430.2	395.7	366.8
25°	216.5	245.4	275.8	244.1	219.2
27.5°	128.2	153.1	172.4	151.7	126.9
30°	82.7	96.5	108.9	95.1	84.1
32.5°	57.9	63.4	68.9	63.4	57.9
35°	42.7	45.5	48.3	45.5	41.4
37.5°	33.1	35.8	37.2	34.5	31.7
40°	27.6	29.0	30.3	29.0	27.6
42.5°	23.4	24.8	24.8	24.8	23.4
45°	20.7	20.7	22.1	20.7	20.7
47.5°	17.9	17.9	19.3	17.9	17.9
50°	16.5	16.5	16.5	16.5	16.5
52.5°	15.2	15.2	15.2	15.2	15.2
55°	13.8	13.8	13.8	13.8	13.8
57.5°	12.4	12.4	12.4	12.4	12.4
60°	11.0	11.0	11.0	11.0	11.0
62.5°	9.7	9.7	9.7	9.7	9.7
65°	8.3	8.3	8.3	8.3	8.3
67.5°	8.3	8.3	8.3	8.3	8.3
70°	6.9	6.9	6.9	6.9	6.9
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°	2.8	2.8	2.8	2.8	2.8
82.5°	2.8	2.8	2.8	2.8	2.8
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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