

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: P745744

Luminaire Tested: LD4D30D010-EU4DR1515309027-4LBCSSQMB

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P745744
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-EU4DR1515309027-4LBCSSQMB
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2398.7 lumens
Efficiency: N/A
Efficacy: 82.7 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

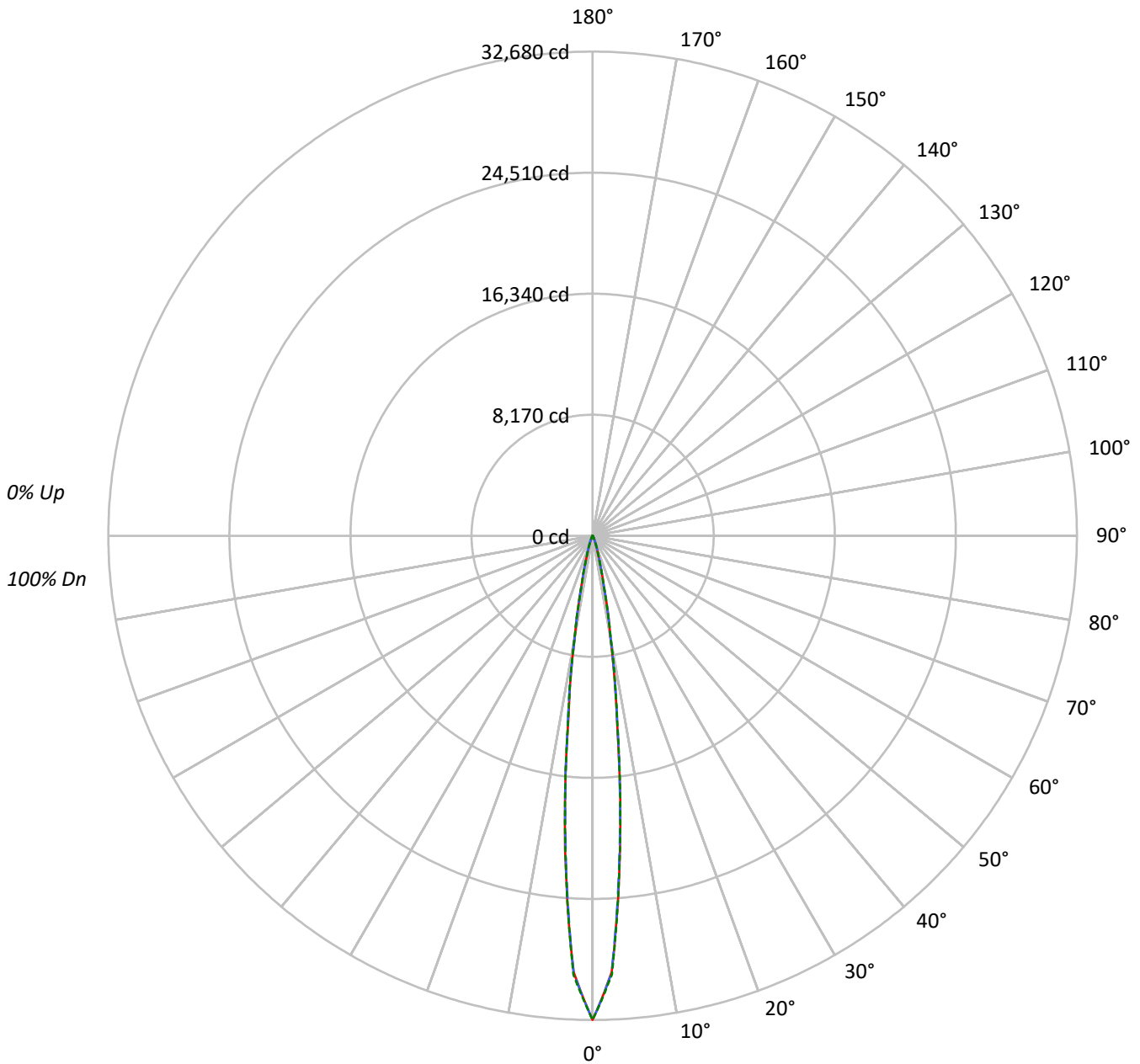


Downlight



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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	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°	3677197	3677197	3677197
5°	2160895	2132916	2149787
10°	644923	649449	659386
15°	160416	163543	158496
20°	47997	55582	49012
25°	16920	21555	17138
30°	6215	8185	6320
35°	3115	3515	3014
40°	1967	2159	1967
45°	1456	1547	1456
50°	1154	1154	1154
55°	961	961	961
60°	779	779	779
65°	592	592	592
70°	505	505	505
75°	317	317	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°	1555.7	64.9
10°-20°	639.9	26.7
20°-30°	127.1	5.3
30°-40°	31.7	1.3
40°-50°	16.7	0.7
50°-60°	12.4	0.5
60°-70°	8.7	0.4
70°-80°	5.0	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°	2322.6	96.8
0°-40°	2354.4	98.2
0°-60°	2383.4	99.4
0°-90°	2398.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2398.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	32680	32680	32680	32680	32680	
5°	21263	21044	20987	21133	21153	1553
15°	1847	1882	1883	1850	1825	633
25°	217	246	277	245	220	114
35°	43	46	48	46	42	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°	32680.4	32680.4	32680.4	32680.4	32680.4
2.5°	29479.1	29504.0	29513.7	29542.7	29650.6
5°	21262.6	21044.0	20987.3	21132.6	21153.3
7.5°	12595.2	12639.4	12801.3	12837.3	12707.2
10°	6911.8	6968.6	6960.3	7010.1	7066.8
12.5°	3534.8	3490.5	3476.7	3533.4	3454.5
15°	1846.9	1881.5	1882.9	1849.7	1824.8
17.5°	993.3	1033.5	1099.9	1045.9	962.9
20°	586.6	622.6	679.3	635.0	599.0
22.5°	362.5	391.5	431.6	397.1	368.0
25°	217.2	246.3	276.7	244.9	220.0
27.5°	128.7	153.6	172.9	152.2	127.3
30°	83.0	96.8	109.3	95.5	84.4
32.5°	58.1	63.6	69.2	63.6	58.1
35°	42.9	45.7	48.4	45.7	41.5
37.5°	33.2	36.0	37.4	34.6	31.8
40°	27.7	29.1	30.4	29.1	27.7
42.5°	23.5	24.9	24.9	24.9	23.5
45°	20.8	20.8	22.1	20.8	20.8
47.5°	18.0	18.0	19.4	18.0	18.0
50°	16.6	16.6	16.6	16.6	16.6
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°	12.5	12.5	12.5	12.5	12.5
60°	11.1	11.1	11.1	11.1	11.1
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°	4.2	4.2	4.2	4.2	5.5
77.5°	4.2	4.2	4.2	4.2	4.2
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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