

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: P745782

Luminaire Tested: LD4D30D010-EU4DR1515309035-4LBSQW1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P745782
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-EU4DR1515309035-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2593.7 lumens
Efficiency: N/A
Efficacy: 89.4 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

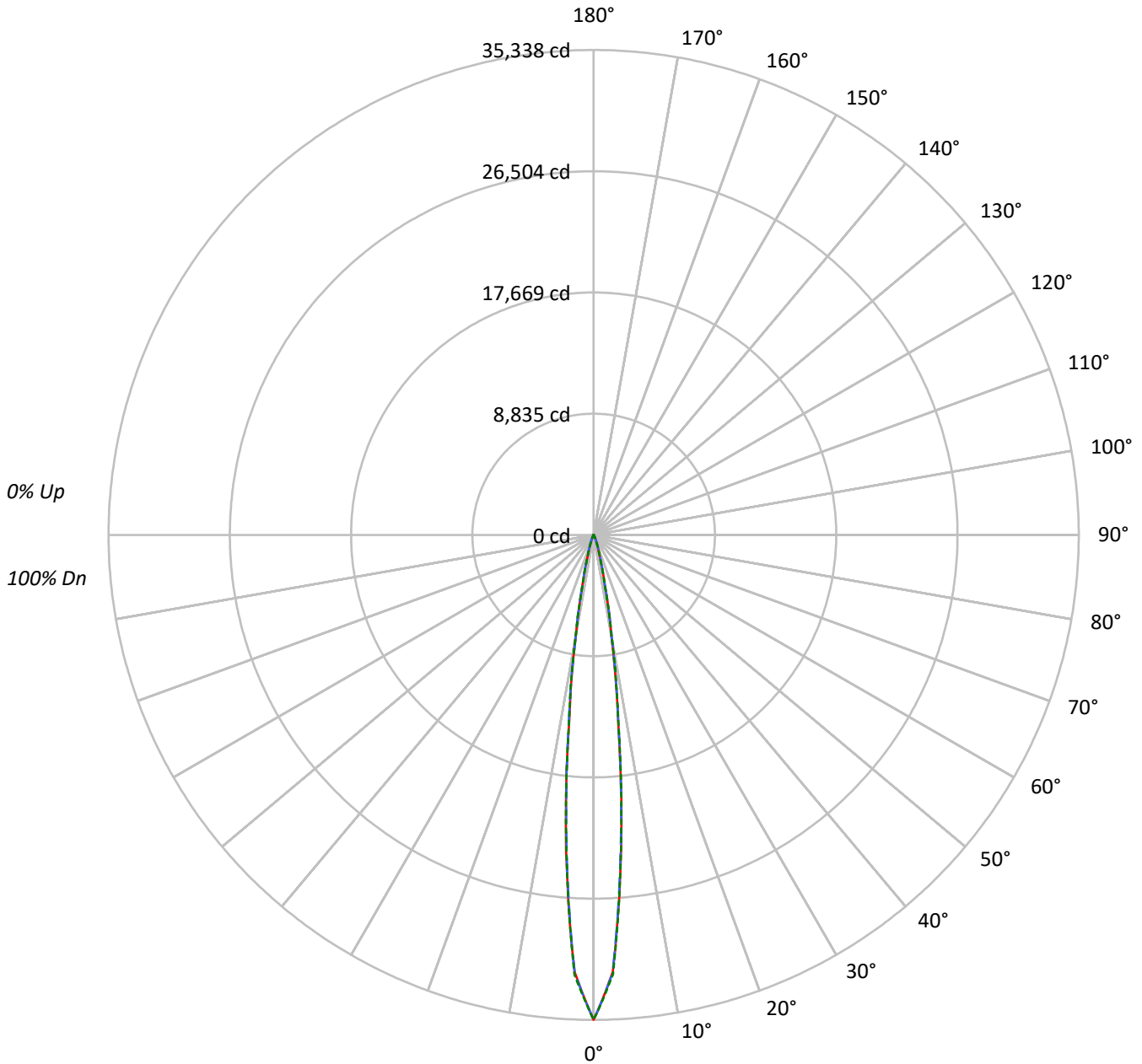


Downlight



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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°	3976219	3976219	3976219
5°	2336611	2306356	2324599
10°	697372	702252	713001
15°	173462	176841	171386
20°	51900	60099	53005
25°	18299	23308	18533
30°	6724	8851	6837
35°	3370	3805	3261
40°	2123	2336	2123
45°	1568	1673	1568
50°	1252	1252	1252
55°	1044	1044	1044
60°	843	843	843
65°	642	642	642
70°	549	549	549
75°	340	340	454
80°	236	236	236
85°	125	125	125

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1673 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1682.2	64.9
10°-20°	691.9	26.7
20°-30°	137.4	5.3
30°-40°	34.3	1.3
40°-50°	18.0	0.7
50°-60°	13.4	0.5
60°-70°	9.5	0.4
70°-80°	5.4	0.2
80°-90°	1.6	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°	2511.5	96.8
0°-40°	2545.8	98.2
0°-60°	2577.2	99.4
0°-90°	2593.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2593.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	35338	35338	35338	35338	35338	
5°	22992	22755	22694	22851	22873	1679
15°	1997	2034	2036	2000	1973	685
25°	235	266	299	265	238	123
35°	46	49	52	49	45	31
45°	22	22	24	22	22	18
55°	15	15	15	15	15	13
65°	9	9	9	9	9	9
75°	4	4	4	4	6	5
85°	2	2	2	2	2	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	35337.9	35337.9	35337.9	35337.9	35337.9
2.5°	31876.2	31903.1	31913.6	31945.0	32061.7
5°	22991.6	22755.3	22693.9	22851.0	22873.4
7.5°	13619.3	13667.2	13842.2	13881.1	13740.5
10°	7473.9	7535.2	7526.2	7580.1	7641.4
12.5°	3822.2	3774.3	3759.4	3820.7	3735.4
15°	1997.1	2034.5	2036.0	2000.1	1973.2
17.5°	1074.1	1117.5	1189.3	1131.0	1041.2
20°	634.3	673.2	734.5	686.7	647.8
22.5°	391.9	423.4	466.7	429.3	397.9
25°	234.9	266.3	299.2	264.8	237.9
27.5°	139.1	166.1	187.0	164.6	137.6
30°	89.8	104.7	118.2	103.2	91.3
32.5°	62.8	68.8	74.8	68.8	62.8
35°	46.4	49.4	52.4	49.4	44.9
37.5°	35.9	38.9	40.4	37.4	34.4
40°	29.9	31.4	32.9	31.4	29.9
42.5°	25.4	26.9	26.9	26.9	25.4
45°	22.4	22.4	23.9	22.4	22.4
47.5°	19.4	19.4	20.9	19.4	19.4
50°	18.0	18.0	18.0	18.0	18.0
52.5°	16.5	16.5	16.5	16.5	16.5
55°	15.0	15.0	15.0	15.0	15.0
57.5°	13.5	13.5	13.5	13.5	13.5
60°	12.0	12.0	12.0	12.0	12.0
62.5°	10.5	10.5	10.5	10.5	10.5
65°	9.0	9.0	9.0	9.0	9.0
67.5°	9.0	9.0	9.0	9.0	9.0
70°	7.5	7.5	7.5	7.5	7.5
72.5°	6.0	6.0	6.0	6.0	6.0
75°	4.5	4.5	4.5	4.5	6.0
77.5°	4.5	4.5	4.5	4.5	4.5
80°	3.0	3.0	3.0	3.0	3.0
82.5°	3.0	3.0	3.0	3.0	3.0
85°	1.5	1.5	1.5	1.5	1.5
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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