

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: P745783

Luminaire Tested: LD4D30D010-EU4DR1515309040-4LBCSSQMB

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P745783
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-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: 2686.8 lumens
Efficiency: N/A
Efficacy: 92.6 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

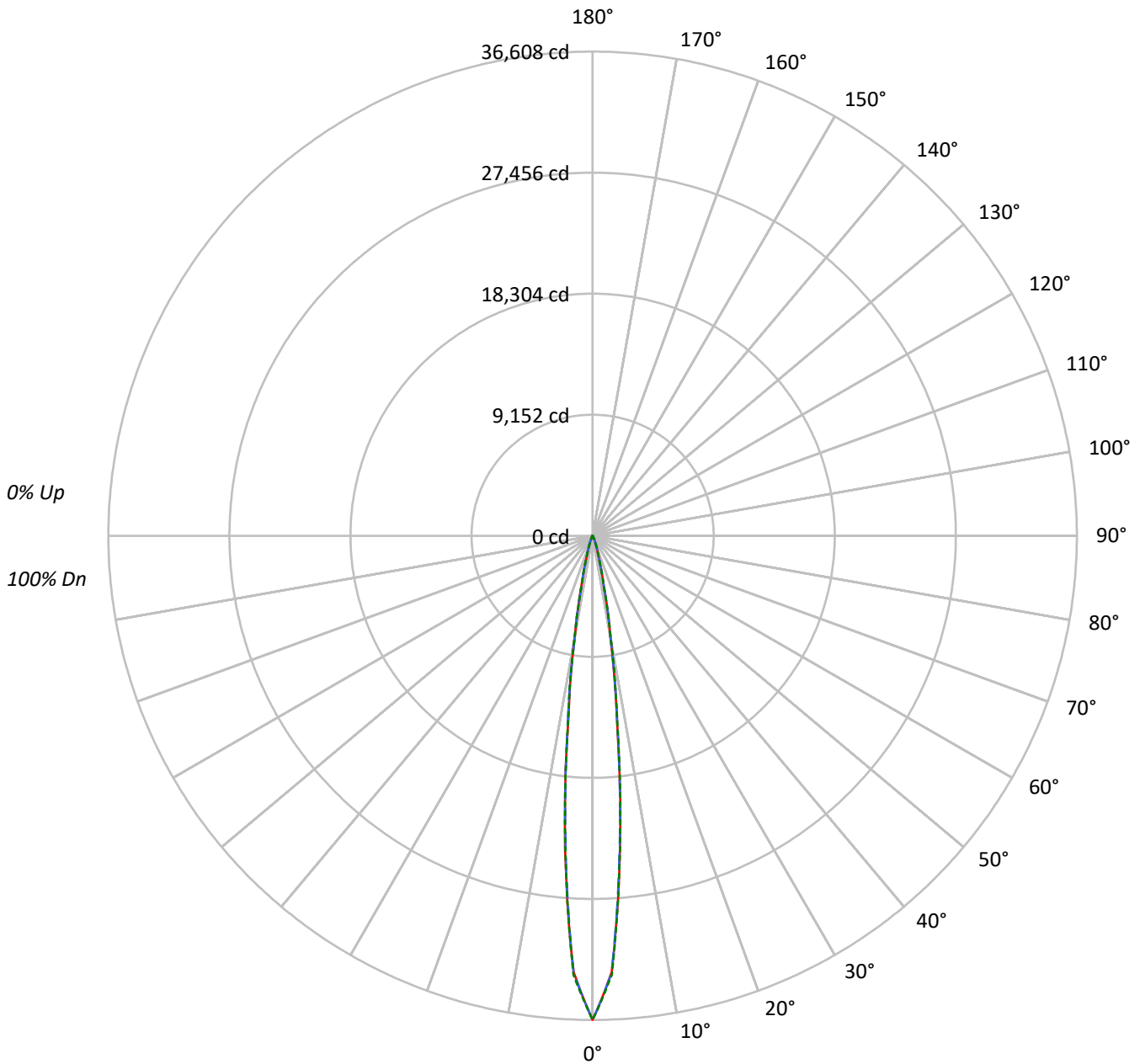


Downlight



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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	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°	4119153	4119153	4119153
5°	2420607	2389265	2408168
10°	722434	727501	738632
15°	179698	183198	177544
20°	53766	62259	54903
25°	18953	24141	19195
30°	6964	9165	7076
35°	3486	3936	3377
40°	2201	2422	2201
45°	1624	1736	1624
50°	1293	1293	1293
55°	1079	1079	1079
60°	871	871	871
65°	664	664	664
70°	563	563	563
75°	348	348	469
80°	244	244	244
85°	125	125	125

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1736 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1742.6	64.9
10°-20°	716.8	26.7
20°-30°	142.4	5.3
30°-40°	35.5	1.3
40°-50°	18.7	0.7
50°-60°	13.8	0.5
60°-70°	9.8	0.4
70°-80°	5.5	0.2
80°-90°	1.7	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°	2601.8	96.8
0°-40°	2637.3	98.2
0°-60°	2669.8	99.4
0°-90°	2686.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2686.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	36608	36608	36608	36608	36608	
5°	23818	23573	23510	23672	23696	1739
15°	2069	2108	2109	2072	2044	709
25°	243	276	310	274	246	128
35°	48	51	54	51	46	33
45°	23	23	25	23	23	18
55°	16	16	16	16	16	14
65°	9	9	9	9	9	10
75°	5	5	5	5	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°	36608.2	36608.2	36608.2	36608.2	36608.2
2.5°	33022.1	33050.0	33060.8	33093.3	33214.2
5°	23818.1	23573.2	23509.7	23672.4	23695.7
7.5°	14108.9	14158.5	14339.8	14380.1	14234.4
10°	7742.5	7806.1	7796.8	7852.6	7916.1
12.5°	3959.6	3910.0	3894.5	3958.1	3869.7
15°	2068.9	2107.7	2109.2	2072.0	2044.1
17.5°	1112.7	1157.7	1232.1	1171.6	1078.6
20°	657.1	697.4	760.9	711.3	671.0
22.5°	406.0	438.6	483.5	444.8	412.2
25°	243.3	275.9	309.9	274.3	246.4
27.5°	144.1	172.0	193.7	170.5	142.6
30°	93.0	108.5	122.4	106.9	94.5
32.5°	65.1	71.3	77.5	71.3	65.1
35°	48.0	51.1	54.2	51.1	46.5
37.5°	37.2	40.3	41.8	38.7	35.6
40°	31.0	32.5	34.1	32.5	31.0
42.5°	26.3	27.9	27.9	27.9	26.3
45°	23.2	23.2	24.8	23.2	23.2
47.5°	20.1	20.1	21.7	20.1	20.1
50°	18.6	18.6	18.6	18.6	18.6
52.5°	17.0	17.0	17.0	17.0	17.0
55°	15.5	15.5	15.5	15.5	15.5
57.5°	13.9	13.9	13.9	13.9	13.9
60°	12.4	12.4	12.4	12.4	12.4
62.5°	10.8	10.8	10.8	10.8	10.8
65°	9.3	9.3	9.3	9.3	9.3
67.5°	9.3	9.3	9.3	9.3	9.3
70°	7.7	7.7	7.7	7.7	7.7
72.5°	6.2	6.2	6.2	6.2	6.2
75°	4.6	4.6	4.6	4.6	4.6
77.5°	4.6	4.6	4.6	4.6	4.6
80°	3.1	3.1	3.1	3.1	3.1
82.5°	3.1	3.1	3.1	3.1	3.1
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

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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