

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: P745768

Luminaire Tested: LD4D30D010-EU4DR1515309030-4LBSQW1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P745768
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-EU4DR1515309030-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2337.8 lumens
Efficiency: N/A
Efficacy: 80.6 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



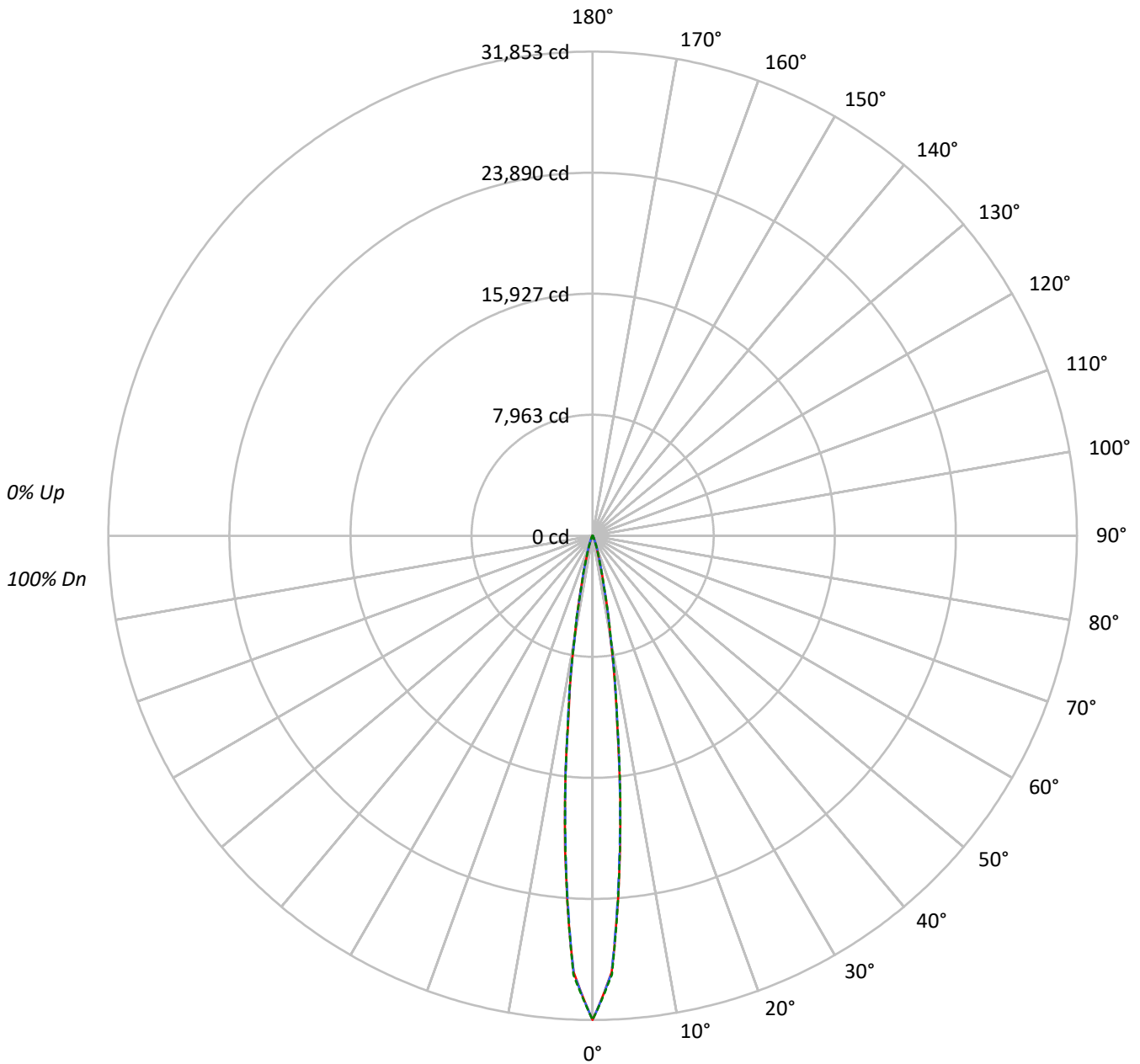
Downlight



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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°	3584053	3584053	3584053
5°	2106157	2078890	2095334
10°	628595	632989	642684
15°	156360	159400	154484
20°	46778	54175	47776
25°	16492	21010	16702
30°	6058	7975	6163
35°	3035	3428	2941
40°	1917	2109	1917
45°	1414	1512	1414
50°	1126	1126	1126
55°	940	940	940
60°	758	758	758
65°	578	578	578
70°	490	490	490
75°	302	302	408
80°	213	213	213
85°	108	108	108

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1512 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1516.2	64.9
10°-20°	623.7	26.7
20°-30°	123.9	5.3
30°-40°	30.9	1.3
40°-50°	16.3	0.7
50°-60°	12.0	0.5
60°-70°	8.5	0.4
70°-80°	4.8	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°	2263.8	96.8
0°-40°	2294.7	98.2
0°-60°	2323.0	99.4
0°-90°	2337.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2337.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	31853	31853	31853	31853	31853	
5°	20724	20511	20456	20597	20618	1513
15°	1800	1834	1835	1803	1779	617
25°	212	240	270	239	214	111
35°	42	44	47	44	40	28
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	5	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°	31852.6	31852.6	31852.6	31852.6	31852.6
2.5°	28732.3	28756.6	28766.0	28794.4	28899.5
5°	20724.0	20511.0	20455.7	20597.3	20617.5
7.5°	12276.1	12319.3	12477.0	12512.1	12385.3
10°	6736.8	6792.0	6783.9	6832.5	6887.8
12.5°	3445.2	3402.1	3388.6	3443.9	3367.0
15°	1800.2	1833.9	1835.2	1802.9	1778.6
17.5°	968.2	1007.3	1072.0	1019.4	938.5
20°	571.7	606.8	662.1	618.9	583.9
22.5°	353.3	381.6	420.7	387.0	358.7
25°	211.7	240.0	269.7	238.7	214.4
27.5°	125.4	149.7	168.6	148.3	124.1
30°	80.9	94.4	106.5	93.0	82.3
32.5°	56.6	62.0	67.4	62.0	56.6
35°	41.8	44.5	47.2	44.5	40.5
37.5°	32.4	35.1	36.4	33.7	31.0
40°	27.0	28.3	29.7	28.3	27.0
42.5°	22.9	24.3	24.3	24.3	22.9
45°	20.2	20.2	21.6	20.2	20.2
47.5°	17.5	17.5	18.9	17.5	17.5
50°	16.2	16.2	16.2	16.2	16.2
52.5°	14.8	14.8	14.8	14.8	14.8
55°	13.5	13.5	13.5	13.5	13.5
57.5°	12.1	12.1	12.1	12.1	12.1
60°	10.8	10.8	10.8	10.8	10.8
62.5°	9.4	9.4	9.4	9.4	9.4
65°	8.1	8.1	8.1	8.1	8.1
67.5°	8.1	8.1	8.1	8.1	8.1
70°	6.7	6.7	6.7	6.7	6.7
72.5°	5.4	5.4	5.4	5.4	5.4
75°	4.0	4.0	4.0	4.0	5.4
77.5°	4.0	4.0	4.0	4.0	4.0
80°	2.7	2.7	2.7	2.7	2.7
82.5°	2.7	2.7	2.7	2.7	2.7
85°	1.3	1.3	1.3	1.3	1.3
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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