

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: P739872

Luminaire Tested: LD4D05D010-EU4DR150210IC9030-4LBSQW1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P739872
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: LD4D05D010-EU4DR150210IC9030-4LBSQW1B
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: 554.6 lumens
Efficiency: N/A
Efficacy: 74.0 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): 7.5
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

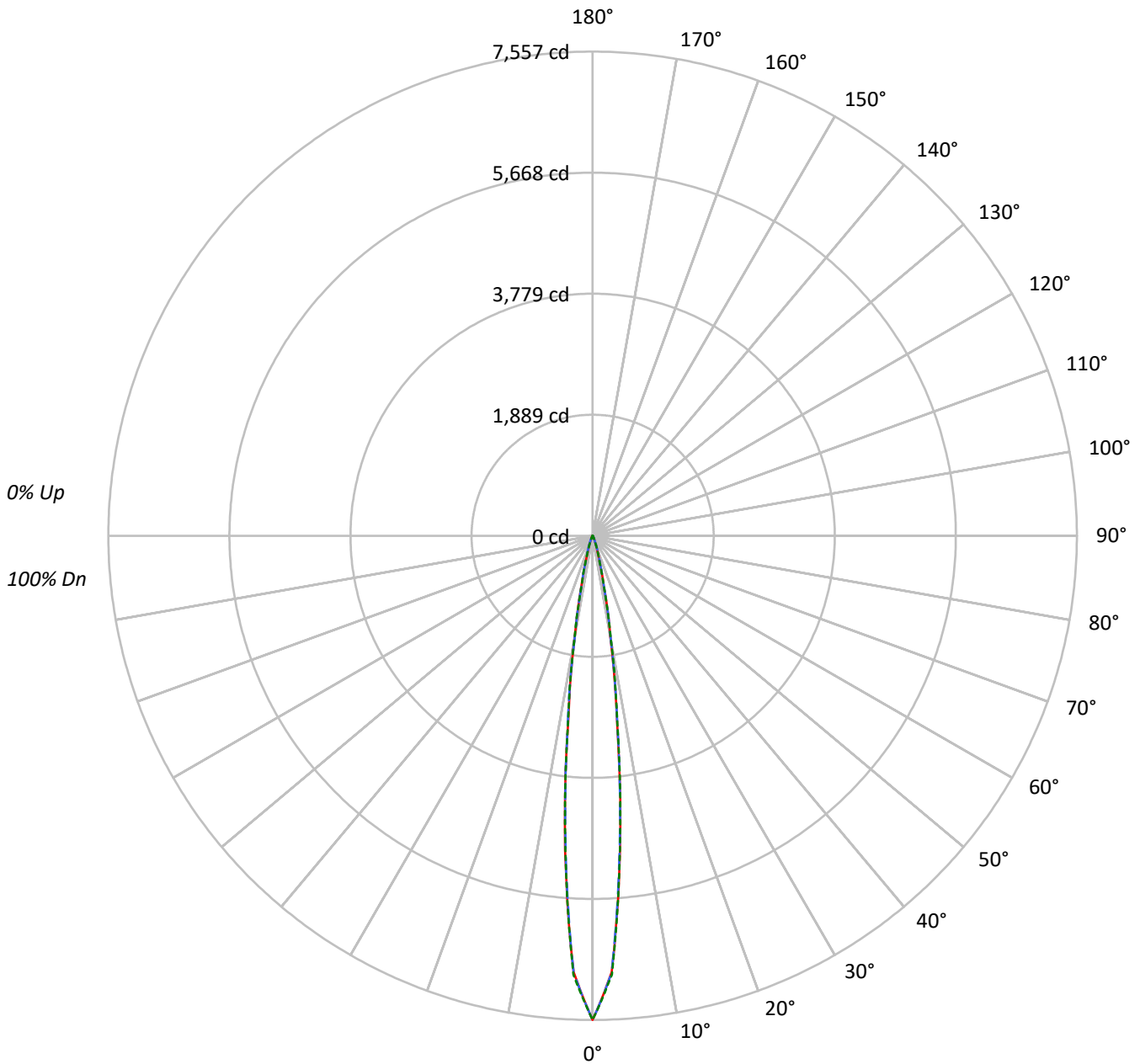


Downlight



TEST NUMBER: P739872
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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				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°	850325	850325	850325
5°	499689	493225	497118
10°	149134	150179	152474
15°	37097	37817	36654
20°	11095	12854	11332
25°	3911	4986	3965
30°	1438	1894	1460
35°	719	813	697
40°	454	497	454
45°	336	357	336
50°	264	264	264
55°	223	223	223
60°	183	183	183
65°	136	136	136
70°	117	117	117
75°	76	76	98
80°	47	47	47
85°	25	25	25

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 357 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	359.7	64.9
10°-20°	148.0	26.7
20°-30°	29.4	5.3
30°-40°	7.3	1.3
40°-50°	3.9	0.7
50°-60°	2.9	0.5
60°-70°	2.0	0.4
70°-80°	1.2	0.2
80°-90°	0.3	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°	537.1	96.8
0°-40°	544.4	98.2
0°-60°	551.1	99.4
0°-90°	554.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	554.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7557	7557	7557	7557	7557	
5°	4917	4866	4853	4887	4892	359
15°	427	435	435	428	422	146
25°	50	57	64	57	51	26
35°	10	11	11	11	10	7
45°	5	5	5	5	5	4
55°	3	3	3	3	3	3
65°	2	2	2	2	2	2
75°	1	1	1	1	1	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7557.1	7557.1	7557.1	7557.1	7557.1
2.5°	6816.8	6822.6	6824.8	6831.5	6856.5
5°	4916.8	4866.3	4853.2	4886.7	4891.5
7.5°	2912.5	2922.8	2960.2	2968.5	2938.4
10°	1598.3	1611.4	1609.5	1621.0	1634.1
12.5°	817.4	807.2	804.0	817.1	798.8
15°	427.1	435.1	435.4	427.7	422.0
17.5°	229.7	239.0	254.3	241.9	222.7
20°	135.6	144.0	157.1	146.8	138.5
22.5°	83.8	90.5	99.8	91.8	85.1
25°	50.2	56.9	64.0	56.6	50.9
27.5°	29.8	35.5	40.0	35.2	29.4
30°	19.2	22.4	25.3	22.1	19.5
32.5°	13.4	14.7	16.0	14.7	13.4
35°	9.9	10.6	11.2	10.6	9.6
37.5°	7.7	8.3	8.6	8.0	7.4
40°	6.4	6.7	7.0	6.7	6.4
42.5°	5.4	5.8	5.8	5.8	5.4
45°	4.8	4.8	5.1	4.8	4.8
47.5°	4.2	4.2	4.5	4.2	4.2
50°	3.8	3.8	3.8	3.8	3.8
52.5°	3.5	3.5	3.5	3.5	3.5
55°	3.2	3.2	3.2	3.2	3.2
57.5°	2.9	2.9	2.9	2.9	2.9
60°	2.6	2.6	2.6	2.6	2.6
62.5°	2.2	2.2	2.2	2.2	2.2
65°	1.9	1.9	1.9	1.9	1.9
67.5°	1.9	1.9	1.9	1.9	1.9
70°	1.6	1.6	1.6	1.6	1.6
72.5°	1.3	1.3	1.3	1.3	1.3
75°	1.0	1.0	1.0	1.0	1.3
77.5°	1.0	1.0	1.0	1.0	1.0
80°	0.6	0.6	0.6	0.6	0.6
82.5°	0.6	0.6	0.6	0.6	0.6
85°	0.3	0.3	0.3	0.3	0.3
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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