

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: P742136

Luminaire Tested: LD4D10D010-EU4DR300210IC9035-4LBCSSQMB

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P742136  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/30/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D10D010-EU4DR300210IC9035-4LBCSSQMB  
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 940.8 lumens  
Efficiency: N/A  
Efficacy: 80.4 lumens/watt  
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49  
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')  
CIE Type: Direct

Input Watts (W): 11.7  
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



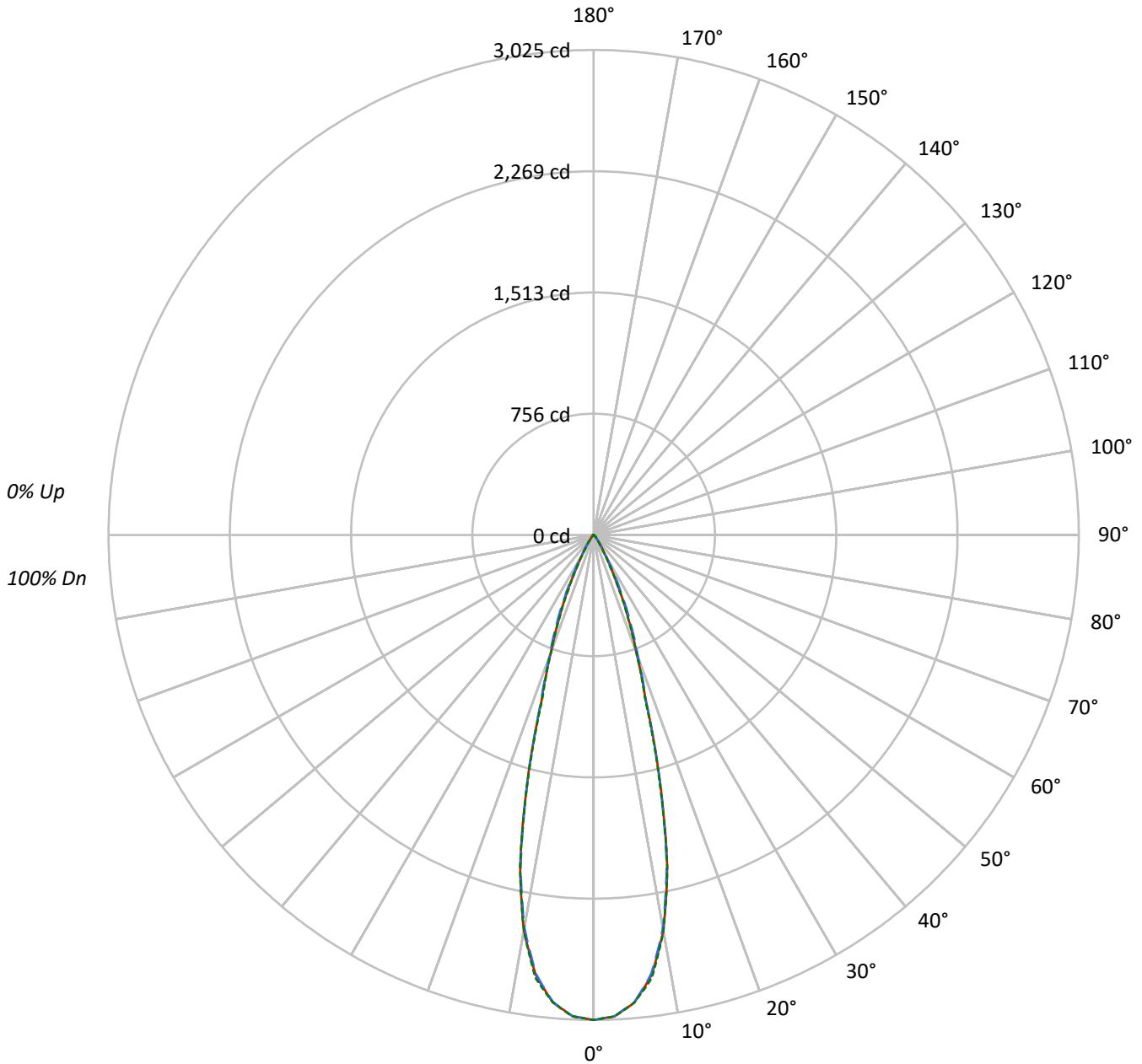
Downlight



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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	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96																			
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92																			
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89																			
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85																			
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82																			
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79																			
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77																			
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74																			
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72																			
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	231551	231551	231551
5°	224906	224645	224921
10°	194800	193432	194754
15°	127099	126417	125783
20°	63202	65572	63120
25°	31832	35902	31181
30°	12745	13894	11101
35°	5915	5663	4747
40°	2558	2838	2408
45°	1797	2230	1819
50°	619	1619	655
55°	360	667	374
60°	260	291	260
65°	163	163	163
70°	112	67	112
75°	0	59	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 2230 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	266.0	28.3
10°-20°	428.4	45.5
20°-30°	185.1	19.7
30°-40°	42.2	4.5
40°-50°	14.5	1.5
50°-60°	3.5	0.4
60°-70°	0.9	0.1
70°-80°	0.1	0.0
80°-90°	0.0	0.0
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°	879.6	93.5
0°-40°	921.8	98.0
0°-60°	939.8	99.9
0°-90°	940.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	940.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3025	3025	3025	3025	3025	
5°	2927	2924	2924	2930	2927	266
15°	1604	1585	1595	1590	1587	429
25°	377	391	425	381	369	180
35°	63	65	61	60	51	43
45°	17	21	21	21	17	12
55°	3	3	5	3	3	3
65°	1	1	1	1	1	1
75°	0	0	0	0	0	0
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°	3025.1	3025.1	3025.1	3025.1	3025.1
2.5°	3005.1	3003.0	3004.2	3005.7	3006.3
5°	2927.1	2924.3	2923.7	2929.8	2927.3
7.5°	2769.8	2765.8	2759.7	2773.5	2786.4
10°	2506.3	2501.9	2488.7	2495.2	2505.7
12.5°	2117.3	2103.0	2102.7	2123.5	2120.6
15°	1603.9	1584.6	1595.3	1590.1	1587.3
17.5°	1078.6	1071.1	1085.4	1081.1	1062.5
20°	775.9	777.8	805.0	791.4	774.9
22.5°	566.2	573.2	605.4	570.2	557.3
25°	376.9	391.2	425.1	381.2	369.2
27.5°	231.9	238.4	272.7	228.9	222.4
30°	144.2	140.9	157.2	134.9	125.6
32.5°	94.6	90.5	95.6	85.8	78.4
35°	63.3	64.6	60.6	60.2	50.8
37.5°	39.5	45.4	40.1	42.8	32.7
40°	25.6	32.9	28.4	31.3	24.1
42.5°	21.0	25.4	23.3	24.8	21.4
45°	16.6	20.6	20.6	20.6	16.8
47.5°	9.2	13.8	17.6	14.1	9.8
50°	5.2	7.0	13.6	7.3	5.5
52.5°	3.6	4.0	9.3	4.2	3.7
55°	2.7	2.8	5.0	3.0	2.8
57.5°	2.1	2.2	2.7	2.2	2.1
60°	1.7	1.7	1.9	1.8	1.7
62.5°	1.2	1.2	1.3	1.2	1.2
65°	0.9	0.9	0.9	0.9	0.9
67.5°	0.5	0.6	0.6	0.6	0.6
70°	0.5	0.3	0.3	0.3	0.5
72.5°	0.3	0.2	0.2	0.2	0.2
75°	0.0	0.0	0.2	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
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



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Scaled Data Report







— 0°-180°    - - 45°-225°    - - - 90°-270°

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(END OF REPORT)