

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: P740120

Luminaire Tested: LD4D05D010-EU4DR300210IC9035-4LBSQW1MW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P740120  
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: LD4D05D010-EU4DR300210IC9035-4LBSQW1MW  
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 550.7 lumens  
Efficiency: N/A  
Efficacy: 73.4 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): 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

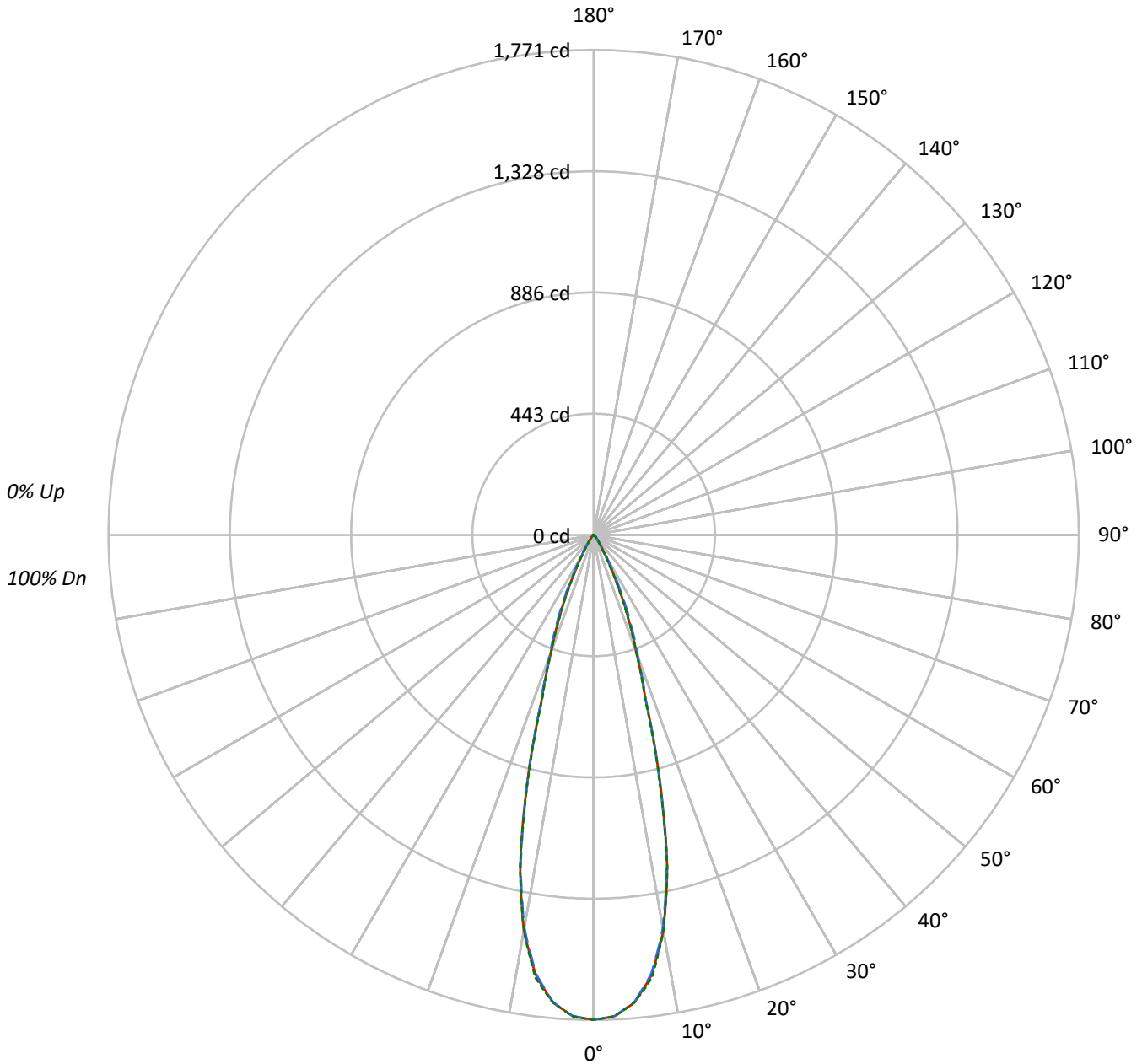


Downlight



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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					70					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								
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°	135543	135543	135543
5°	131658	131504	131658
10°	114037	113229	114006
15°	74402	74006	73633
20°	36997	38382	36940
25°	18631	21013	18251
30°	7460	8131	6505
35°	3457	3317	2775
40°	1499	1659	1409
45°	1050	1310	1061
50°	357	953	381
55°	200	400	227
60°	153	168	153
65°	91	91	91
70°	67	45	67
75°	0	30	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 1310 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	155.7	28.3
10°-20°	250.8	45.5
20°-30°	108.4	19.7
30°-40°	24.7	4.5
40°-50°	8.5	1.5
50°-60°	2.1	0.4
60°-70°	0.5	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°	514.9	93.5
0°-40°	539.6	98.0
0°-60°	550.1	99.9
0°-90°	550.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	550.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1771	1771	1771	1771	1771	
5°	1714	1712	1712	1715	1714	156
15°	939	928	934	931	929	251
25°	221	229	249	223	216	106
35°	37	38	36	35	30	25
45°	10	12	12	12	10	7
55°	2	2	3	2	2	2
65°	0	0	0	0	0	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1770.8	1770.8	1770.8	1770.8	1770.8
2.5°	1759.1	1757.9	1758.6	1759.4	1759.8
5°	1713.5	1711.8	1711.5	1715.0	1713.5
7.5°	1621.4	1619.0	1615.4	1623.5	1631.1
10°	1467.2	1464.5	1456.8	1460.6	1466.8
12.5°	1239.4	1231.0	1230.8	1243.0	1241.4
15°	938.9	927.6	933.9	930.8	929.2
17.5°	631.4	627.0	635.3	632.8	622.0
20°	454.2	455.3	471.2	463.2	453.5
22.5°	331.4	335.5	354.4	333.7	326.2
25°	220.6	229.0	248.8	223.2	216.1
27.5°	135.7	139.5	159.6	134.0	130.2
30°	84.4	82.5	92.0	79.0	73.6
32.5°	55.4	52.9	56.0	50.2	45.9
35°	37.0	37.8	35.5	35.2	29.7
37.5°	23.1	26.6	23.5	25.0	19.1
40°	15.0	19.3	16.6	18.3	14.1
42.5°	12.3	14.8	13.6	14.5	12.5
45°	9.7	12.1	12.1	12.1	9.8
47.5°	5.4	8.1	10.4	8.3	5.7
50°	3.0	4.1	8.0	4.2	3.2
52.5°	2.1	2.3	5.5	2.4	2.2
55°	1.5	1.7	3.0	1.7	1.7
57.5°	1.2	1.3	1.5	1.3	1.2
60°	1.0	1.0	1.1	1.0	1.0
62.5°	0.7	0.7	0.8	0.7	0.7
65°	0.5	0.5	0.5	0.5	0.5
67.5°	0.3	0.3	0.3	0.3	0.3
70°	0.3	0.2	0.2	0.2	0.3
72.5°	0.2	0.1	0.1	0.1	0.1
75°	0.0	0.0	0.1	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)