

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: P740145

Luminaire Tested: LD4D05D010-EU4DR300210IC9050-4LBSQW1B

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P740145  
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-EU4DR300210IC9050-4LBSQW1B  
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 505.1 lumens  
Efficiency: N/A  
Efficacy: 67.4 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 (A<sub>in</sub>): 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

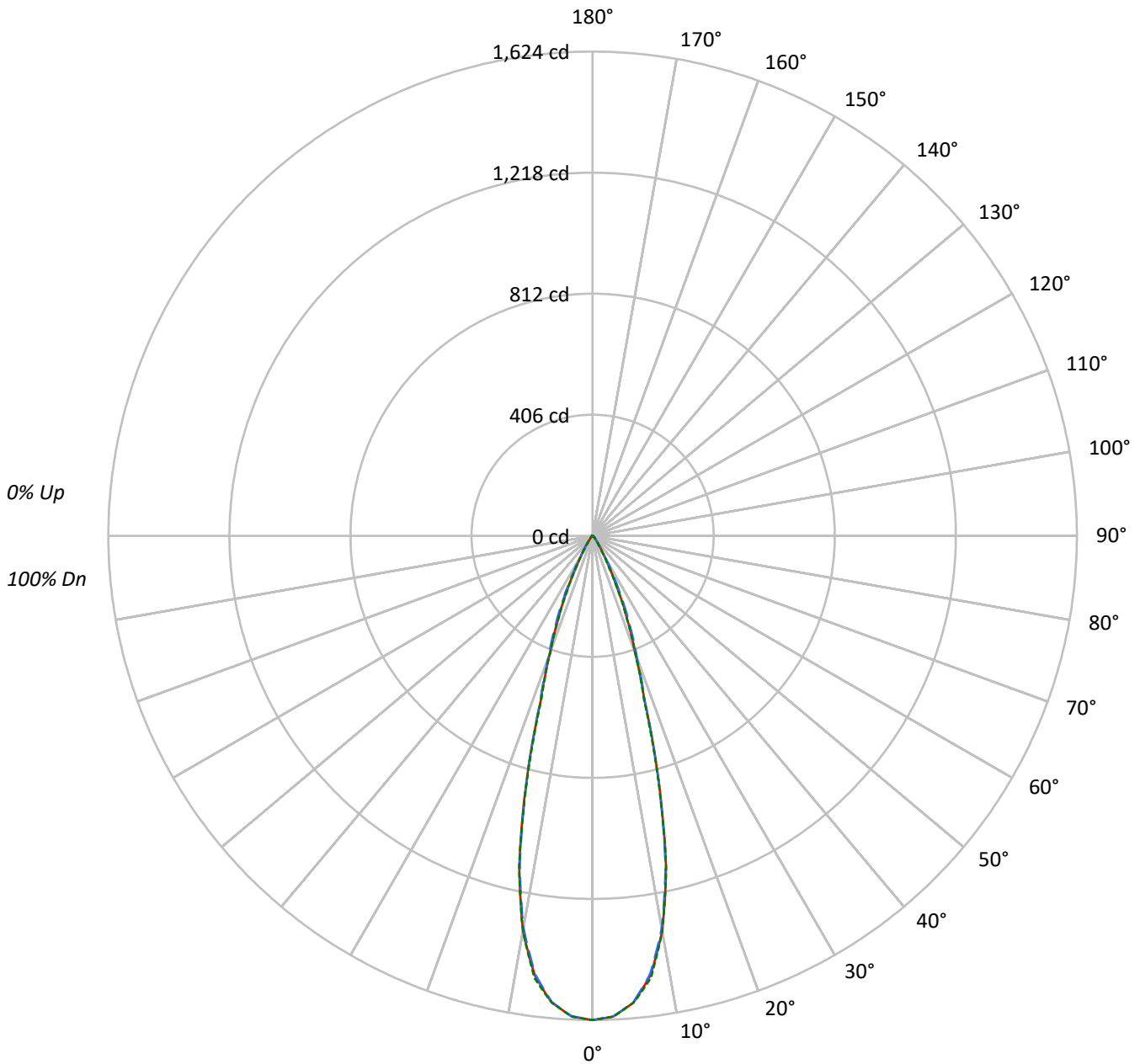


Downlight



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96			96
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92			92
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89			89
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85			85
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82			82
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79			79
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77			77
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74			74
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72			72
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69			69

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

	0°	45°	90°
0°	124329	124329	124329
5°	120763	120617	120770
10°	104593	103855	104570
15°	68245	67880	67539
20°	33934	35205	33886
25°	17094	19281	16739
30°	6850	7460	5966
35°	3177	3037	2551
40°	1369	1519	1289
45°	963	1202	974
50°	333	869	345
55°	187	360	200
60°	138	153	138
65°	91	91	91
70°	45	45	45
75°	0	30	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 1202 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	142.8	28.3
10°-20°	230.0	45.5
20°-30°	99.4	19.7
30°-40°	22.7	4.5
40°-50°	7.8	1.5
50°-60°	1.9	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°	472.3	93.5
0°-40°	494.9	98.0
0°-60°	504.6	99.9
0°-90°	505.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	505.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1624	1624	1624	1624	1624	
5°	1572	1570	1570	1573	1572	143
15°	861	851	857	854	852	231
25°	202	210	228	205	198	97
35°	34	35	32	32	27	23
45°	9	11	11	11	9	6
55°	1	2	3	2	2	1
65°	0	0	0	0	0	0
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°	1624.3	1624.3	1624.3	1624.3	1624.3
2.5°	1613.5	1612.4	1613.1	1613.8	1614.2
5°	1571.7	1570.2	1569.8	1573.1	1571.8
7.5°	1487.2	1485.1	1481.8	1489.2	1496.1
10°	1345.7	1343.3	1336.2	1339.8	1345.4
12.5°	1136.9	1129.2	1129.0	1140.2	1138.6
15°	861.2	850.8	856.6	853.8	852.3
17.5°	579.1	575.1	582.8	580.5	570.5
20°	416.6	417.6	432.2	424.9	416.0
22.5°	304.0	307.7	325.0	306.1	299.2
25°	202.4	210.0	228.3	204.7	198.2
27.5°	124.5	128.0	146.4	122.9	119.4
30°	77.5	75.7	84.4	72.4	67.5
32.5°	50.8	48.6	51.3	46.1	42.1
35°	34.0	34.7	32.5	32.3	27.3
37.5°	21.2	24.4	21.5	23.0	17.5
40°	13.7	17.7	15.2	16.8	12.9
42.5°	11.2	13.6	12.5	13.3	11.5
45°	8.9	11.1	11.1	11.1	9.0
47.5°	4.9	7.4	9.5	7.6	5.3
50°	2.8	3.7	7.3	3.9	2.9
52.5°	1.9	2.2	5.0	2.2	2.0
55°	1.4	1.5	2.7	1.6	1.5
57.5°	1.1	1.2	1.4	1.2	1.1
60°	0.9	0.9	1.0	1.0	0.9
62.5°	0.6	0.6	0.7	0.6	0.6
65°	0.5	0.5	0.5	0.5	0.5
67.5°	0.2	0.3	0.3	0.3	0.3
70°	0.2	0.2	0.2	0.2	0.2
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

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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(END OF REPORT)