

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: P754556

Luminaire Tested: LD4D85BD010-EU4DR3070959024-4LBSQW1B

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P754556  
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: LD4D85BD010-EU4DR3070959024-4LBSQW1B  
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: -

**Summary**

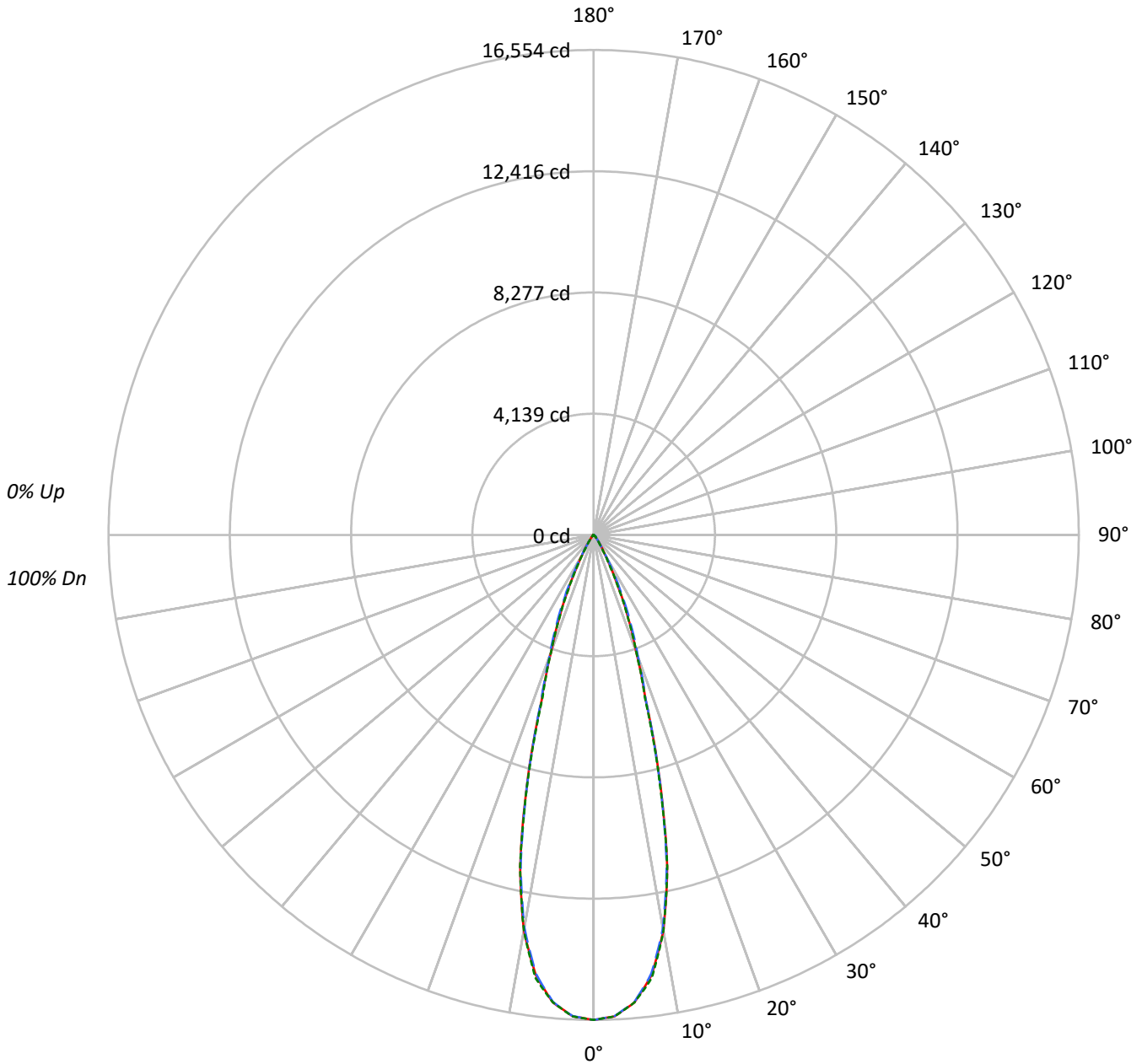
Lumens per Lamp: N/A  
Luminaire Lumens: 5148.2 lumens  
Efficiency: N/A  
Efficacy: 58.7 lumens/watt  
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49  
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')

CIE Type: Direct  
Input Watts (W): 87.7  
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



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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	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°	1267107	1267107	1267107
5°	1230732	1229296	1230794
10°	1066003	1058487	1065746
15°	695513	691780	688302
20°	345845	358821	345381
25°	174216	196454	170644
30°	69753	76002	60773
35°	32350	30985	25977
40°	13969	15508	13160
45°	9851	12232	9937
50°	3382	8907	3584
55°	1948	3683	2055
60°	1362	1623	1362
65°	887	887	887
70°	537	358	537
75°	0	237	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 12232 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1455.7	28.3
10°-20°	2344.4	45.5
20°-30°	1013.1	19.7
30°-40°	230.9	4.5
40°-50°	79.3	1.5
50°-60°	19.4	0.4
60°-70°	5.0	0.1
70°-80°	0.5	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°	4813.2	93.5
0°-40°	5044.1	98.0
0°-60°	5142.7	99.9
0°-90°	5148.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5148.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	16554	16554	16554	16554	16554	
5°	16018	16002	15999	16032	16018	1457
15°	8777	8671	8730	8701	8686	2350
25°	2063	2141	2326	2086	2020	987
35°	346	354	332	329	278	235
45°	91	113	113	113	92	65
55°	15	15	28	16	15	14
65°	5	5	5	5	5	5
75°	0	0	1	0	0	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°	16554.1	16554.1	16554.1	16554.1	16554.1
2.5°	16444.4	16433.0	16439.5	16447.7	16450.9
5°	16017.7	16002.3	15999.0	16032.3	16018.5
7.5°	15157.0	15135.1	15101.7	15177.3	15248.0
10°	13715.2	13690.8	13618.5	13654.2	13711.9
12.5°	11586.6	11507.8	11506.1	11619.9	11604.5
15°	8776.9	8671.2	8729.8	8701.3	8685.9
17.5°	5902.2	5861.6	5939.6	5916.0	5814.4
20°	4245.8	4256.4	4405.1	4330.3	4240.1
22.5°	3098.2	3136.4	3312.8	3120.2	3049.4
25°	2062.8	2140.8	2326.1	2086.3	2020.5
27.5°	1268.7	1304.5	1492.2	1252.5	1216.7
30°	789.2	771.3	859.9	738.0	687.6
32.5°	517.7	495.0	523.4	469.8	429.1
35°	346.2	353.5	331.6	329.2	278.0
37.5°	216.2	248.7	219.4	234.1	178.8
40°	139.8	180.4	155.2	171.5	131.7
42.5°	114.6	139.0	127.6	135.7	117.0
45°	91.0	113.0	113.0	113.0	91.8
47.5°	50.4	75.6	96.7	77.2	53.6
50°	28.4	38.2	74.8	39.8	30.1
52.5°	19.5	21.9	51.2	22.8	20.3
55°	14.6	15.4	27.6	16.3	15.4
57.5°	11.4	12.2	14.6	12.2	11.4
60°	8.9	8.9	10.6	9.8	8.9
62.5°	6.5	6.5	7.3	6.5	6.5
65°	4.9	4.9	4.9	4.9	4.9
67.5°	2.4	3.3	3.3	3.3	3.3
70°	2.4	1.6	1.6	1.6	2.4
72.5°	1.6	0.8	0.8	0.8	0.8
75°	0.0	0.0	0.8	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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