

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: P747567

Luminaire Tested: LD4D40BD010-EU4DR3040509035-4LBDP1B

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P747567  
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: LD4D40BD010-EU4DR3040509035-4LBDP1B  
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2988.8 lumens  
Efficiency: N/A  
Efficacy: 84.9 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

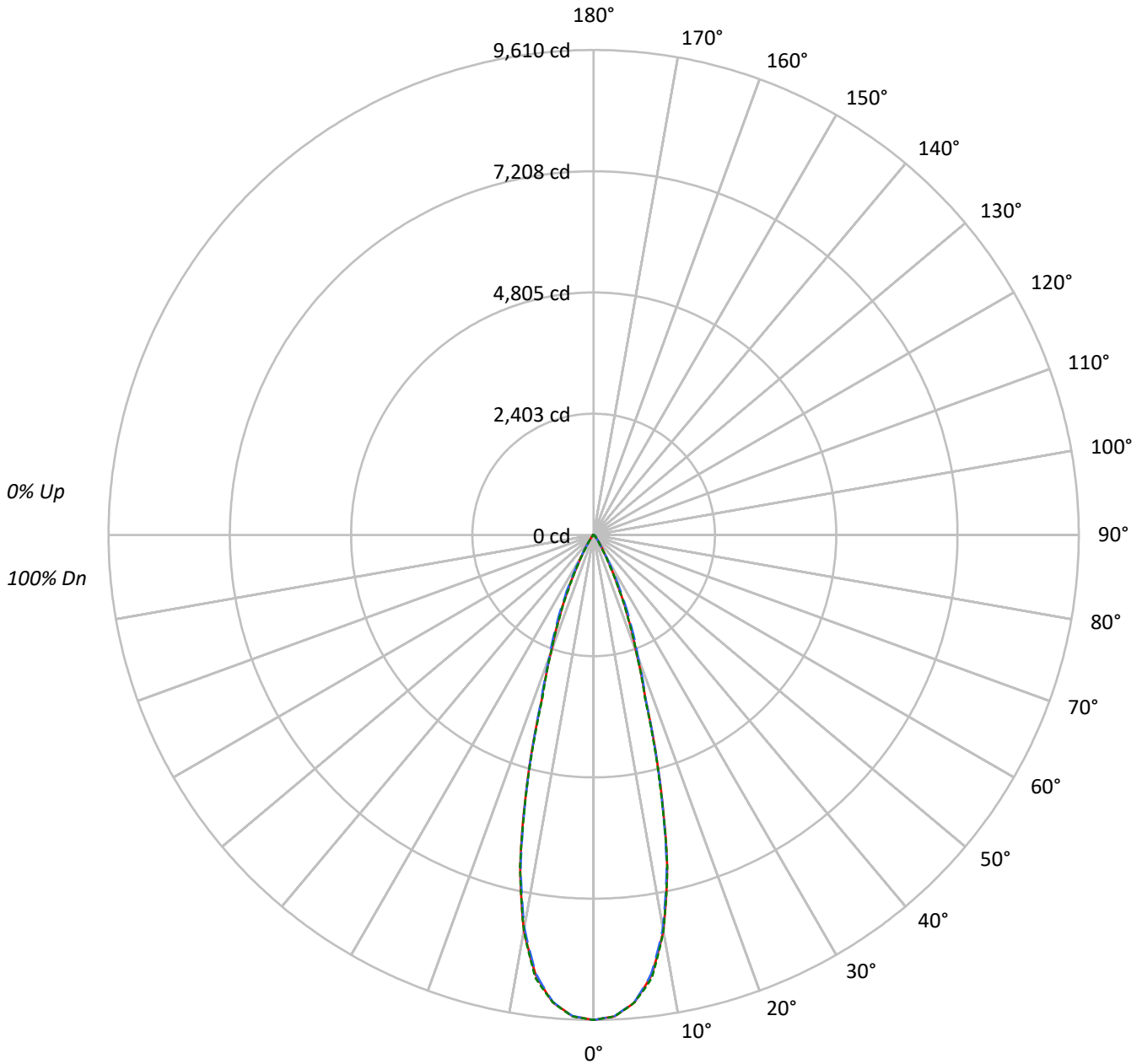
Input Watts (W): 35.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



Downlight

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### Luminous Intensity Polar Plot





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

RF	20									20									20									20									
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°	735613	735613	735613
5°	714496	713658	714527
10°	618863	614495	618716
15°	403778	401606	399586
20°	200780	208315	200512
25°	101136	114050	99067
30°	40498	44122	35283
35°	18782	17988	15082
40°	8114	9003	7634
45°	5716	7101	5770
50°	1965	5168	2084
55°	1134	2135	1201
60°	796	934	796
65°	507	507	507
70°	313	201	313
75°	0	148	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 7101 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	845.1	28.3
10°-20°	1361.0	45.5
20°-30°	588.1	19.7
30°-40°	134.0	4.5
40°-50°	46.0	1.5
50°-60°	11.2	0.4
60°-70°	2.9	0.1
70°-80°	0.3	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°	2794.2	93.5
0°-40°	2928.3	98.0
0°-60°	2985.6	99.9
0°-90°	2988.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2988.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9610	9610	9610	9610	9610	
5°	9299	9290	9288	9308	9299	846
15°	5095	5034	5068	5052	5042	1364
25°	1198	1243	1350	1211	1173	573
35°	201	205	192	191	161	136
45°	53	66	66	66	53	38
55°	8	9	16	9	9	8
65°	3	3	3	3	3	3
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°	9610.4	9610.4	9610.4	9610.4	9610.4
2.5°	9546.7	9540.1	9543.9	9548.6	9550.5
5°	9299.0	9290.0	9288.1	9307.5	9299.4
7.5°	8799.3	8786.6	8767.2	8811.1	8852.1
10°	7962.3	7948.1	7906.1	7926.9	7960.4
12.5°	6726.5	6680.7	6679.8	6745.9	6736.9
15°	5095.4	5034.0	5068.0	5051.5	5042.5
17.5°	3426.5	3402.9	3448.2	3434.5	3375.5
20°	2464.9	2471.0	2557.4	2514.0	2461.6
22.5°	1798.6	1820.8	1923.2	1811.4	1770.3
25°	1197.5	1242.8	1350.4	1211.2	1173.0
27.5°	736.5	757.3	866.3	727.1	706.3
30°	458.2	447.8	499.2	428.4	399.2
32.5°	300.6	287.3	303.9	272.7	249.1
35°	201.0	205.2	192.5	191.1	161.4
37.5°	125.5	144.4	127.4	135.9	103.8
40°	81.2	104.7	90.1	99.6	76.4
42.5°	66.5	80.7	74.1	78.8	67.9
45°	52.8	65.6	65.6	65.6	53.3
47.5°	29.3	43.9	56.1	44.8	31.1
50°	16.5	22.2	43.4	23.1	17.5
52.5°	11.3	12.7	29.7	13.2	11.8
55°	8.5	9.0	16.0	9.4	9.0
57.5°	6.6	7.1	8.5	7.1	6.6
60°	5.2	5.2	6.1	5.7	5.2
62.5°	3.8	3.8	4.2	3.8	3.8
65°	2.8	2.8	2.8	2.8	2.8
67.5°	1.4	1.9	1.9	1.9	1.9
70°	1.4	0.9	0.9	0.9	1.4
72.5°	0.9	0.5	0.5	0.5	0.5
75°	0.0	0.0	0.5	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)