

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: P747543

Luminaire Tested: LD4D40BD010-EU4DR3040509027-4LBDP1LI

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P747543  
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-EU4DR3040509027-4LBDP1LI  
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3744.2 lumens  
Efficiency: N/A  
Efficacy: 106.4 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

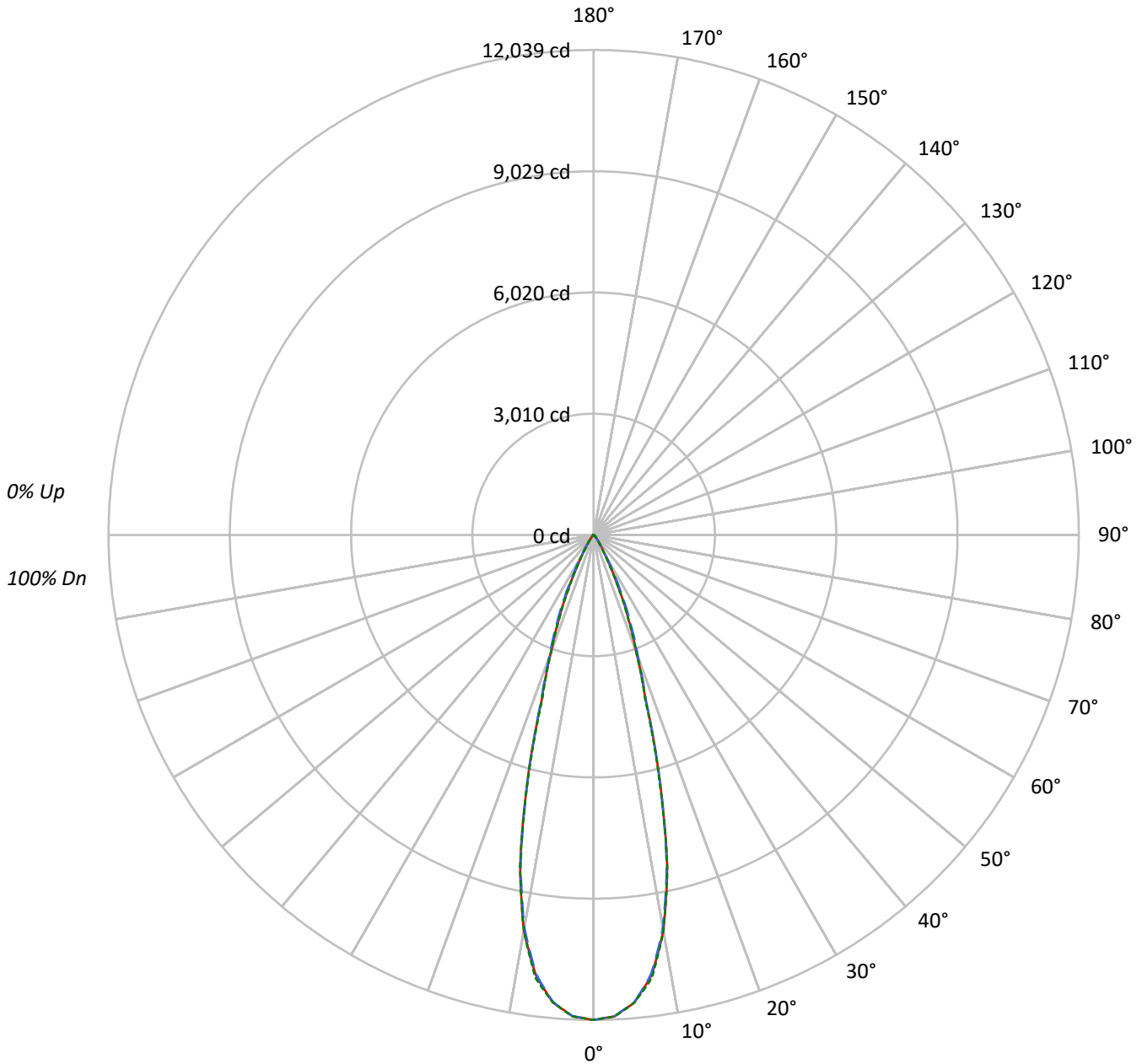
Input Watts (W): 35.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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°	921537	921537	921537
5°	895075	894038	895121
10°	775276	769804	775089
15°	505827	503109	500582
20°	251527	260960	251185
25°	126701	142875	124109
30°	50733	55276	44201
35°	23529	22538	18894
40°	10162	11281	9572
45°	7166	8898	7231
50°	2465	6478	2608
55°	1415	2682	1495
60°	995	1179	995
65°	634	634	634
70°	403	269	403
75°	0	177	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 8898 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1058.7	28.3
10°-20°	1705.0	45.5
20°-30°	736.8	19.7
30°-40°	167.9	4.5
40°-50°	57.7	1.5
50°-60°	14.1	0.4
60°-70°	3.6	0.1
70°-80°	0.4	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°	3500.5	93.5
0°-40°	3668.4	98.0
0°-60°	3740.2	99.9
0°-90°	3744.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3744.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	12039	12039	12039	12039	12039	
5°	11649	11638	11636	11660	11650	1060
15°	6383	6306	6349	6328	6317	1709
25°	1500	1557	1692	1517	1470	718
35°	252	257	241	239	202	171
45°	66	82	82	82	67	47
55°	11	11	20	12	11	10
65°	4	4	4	4	4	3
75°	0	0	1	0	0	1
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°	12039.4	12039.4	12039.4	12039.4	12039.4
2.5°	11959.6	11951.3	11956.0	11961.9	11964.3
5°	11649.2	11638.0	11635.7	11659.9	11649.8
7.5°	11023.3	11007.3	10983.1	11038.1	11089.5
10°	9974.7	9956.9	9904.3	9930.3	9972.3
12.5°	8426.6	8369.3	8368.1	8450.8	8439.6
15°	6383.2	6306.4	6348.9	6328.2	6317.0
17.5°	4292.5	4263.0	4319.7	4302.6	4228.7
20°	3087.9	3095.6	3203.7	3149.3	3083.7
22.5°	2253.2	2281.0	2409.3	2269.2	2217.8
25°	1500.2	1556.9	1691.7	1517.3	1469.5
27.5°	922.7	948.7	1085.2	910.9	884.9
30°	574.0	560.9	625.4	536.7	500.1
32.5°	376.5	360.0	380.7	341.7	312.1
35°	251.8	257.1	241.2	239.4	202.2
37.5°	157.2	180.9	159.6	170.2	130.0
40°	101.7	131.2	112.9	124.7	95.8
42.5°	83.3	101.1	92.8	98.7	85.1
45°	66.2	82.2	82.2	82.2	66.8
47.5°	36.6	55.0	70.3	56.2	39.0
50°	20.7	27.8	54.4	29.0	21.9
52.5°	14.2	16.0	37.2	16.6	14.8
55°	10.6	11.2	20.1	11.8	11.2
57.5°	8.3	8.9	10.6	8.9	8.3
60°	6.5	6.5	7.7	7.1	6.5
62.5°	4.7	4.7	5.3	4.7	4.7
65°	3.5	3.5	3.5	3.5	3.5
67.5°	1.8	2.4	2.4	2.4	2.4
70°	1.8	1.2	1.2	1.2	1.8
72.5°	1.2	0.6	0.6	0.6	0.6
75°	0.0	0.0	0.6	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)