

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: P746763

Luminaire Tested: LD4D35BD010-EU4DR3020359027-4LBDP1LI

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P746763  
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: LD4D35BD010-EU4DR3020359027-4LBDP1LI  
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: 3180.5 lumens  
Efficiency: N/A  
Efficacy: 103.3 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

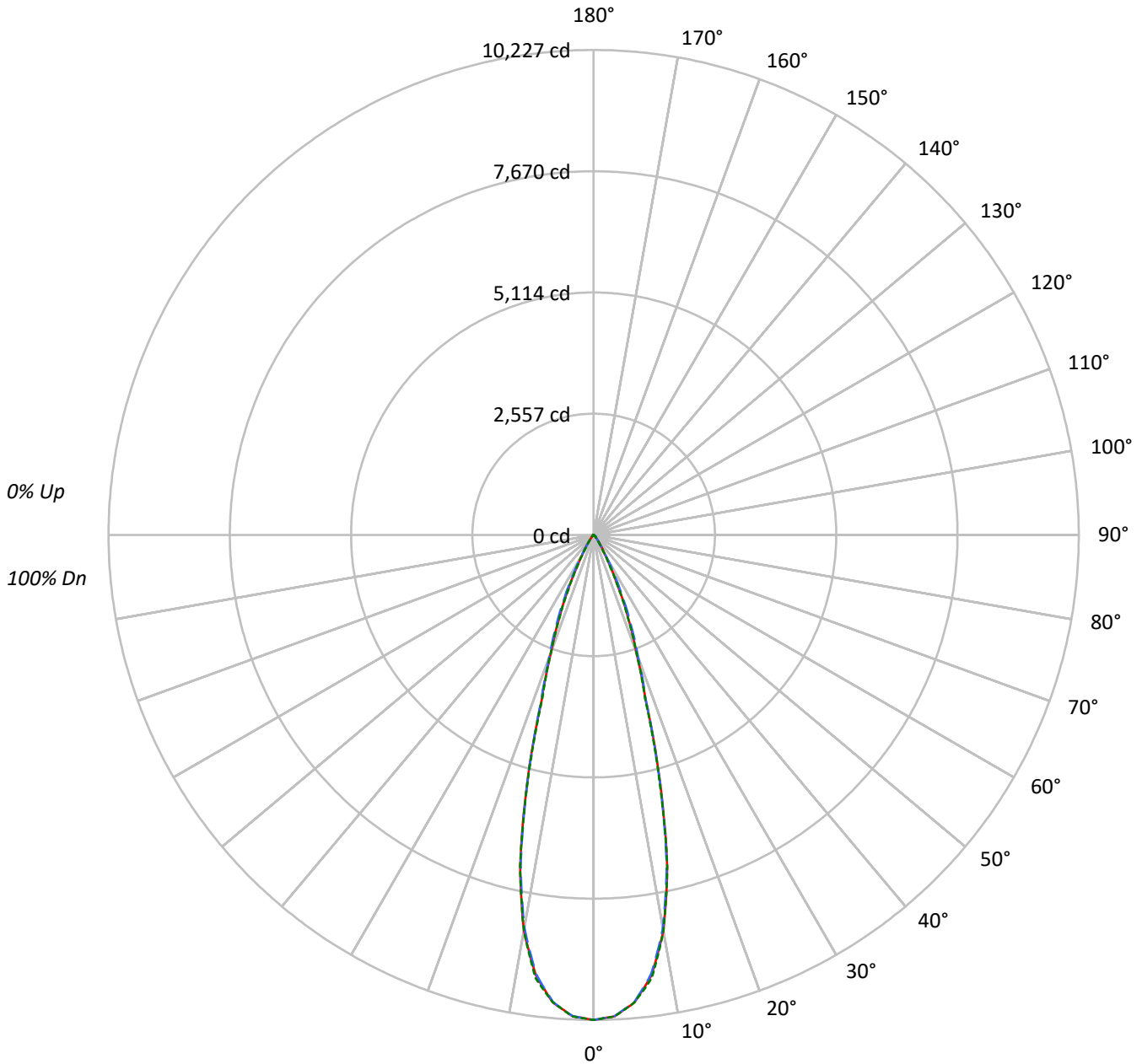
Input Watts (W): 30.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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	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°	782817	782817	782817
5°	760344	759453	760382
10°	658573	653925	658417
15°	429682	427376	425229
20°	213659	221682	213373
25°	107631	121364	105427
30°	43096	46950	37546
35°	19987	19146	16044
40°	8633	9582	8124
45°	6084	7556	6138
50°	2096	5502	2215
55°	1201	2282	1268
60°	842	995	842
65°	543	543	543
70°	336	224	336
75°	0	148	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 7556 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	899.3	28.3
10°-20°	1448.4	45.5
20°-30°	625.9	19.7
30°-40°	142.7	4.5
40°-50°	49.0	1.5
50°-60°	12.0	0.4
60°-70°	3.1	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°	2973.5	93.5
0°-40°	3116.2	98.0
0°-60°	3177.1	99.9
0°-90°	3180.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3180.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	10227	10227	10227	10227	10227	
5°	9896	9886	9884	9905	9896	900
15°	5422	5357	5393	5376	5366	1452
25°	1274	1323	1437	1289	1248	610
35°	214	218	205	203	172	145
45°	56	70	70	70	57	40
55°	9	10	17	10	10	9
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°	10227.1	10227.1	10227.1	10227.1	10227.1
2.5°	10159.3	10152.2	10156.3	10161.3	10163.3
5°	9895.7	9886.1	9884.1	9904.7	9896.2
7.5°	9363.9	9350.4	9329.8	9376.5	9420.2
10°	8473.2	8458.1	8413.4	8435.5	8471.2
12.5°	7158.1	7109.4	7108.4	7178.7	7169.2
15°	5422.3	5357.1	5393.2	5375.6	5366.1
17.5°	3646.4	3621.2	3669.4	3654.9	3592.1
20°	2623.0	2629.6	2721.5	2675.3	2619.5
22.5°	1914.1	1937.7	2046.6	1927.6	1883.9
25°	1274.4	1322.6	1437.0	1288.9	1248.3
27.5°	783.8	805.9	921.9	773.8	751.7
30°	487.6	476.5	531.2	455.9	424.8
32.5°	319.8	305.8	323.4	290.2	265.1
35°	213.9	218.4	204.9	203.4	171.7
37.5°	133.6	153.6	135.6	144.6	110.5
40°	86.4	111.5	95.9	105.9	81.3
42.5°	70.8	85.9	78.8	83.9	72.3
45°	56.2	69.8	69.8	69.8	56.7
47.5°	31.1	46.7	59.8	47.7	33.1
50°	17.6	23.6	46.2	24.6	18.6
52.5°	12.1	13.6	31.6	14.1	12.6
55°	9.0	9.5	17.1	10.0	9.5
57.5°	7.0	7.5	9.0	7.5	7.0
60°	5.5	5.5	6.5	6.0	5.5
62.5°	4.0	4.0	4.5	4.0	4.0
65°	3.0	3.0	3.0	3.0	3.0
67.5°	1.5	2.0	2.0	2.0	2.0
70°	1.5	1.0	1.0	1.0	1.5
72.5°	1.0	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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