

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: P746762

Luminaire Tested: LD4D35BD010-EU4DR3020359027-4LBDP1H

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P746762  
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-EU4DR3020359027-4LBDP1H  
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-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: 3029.1 lumens  
Efficiency: N/A  
Efficacy: 98.3 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

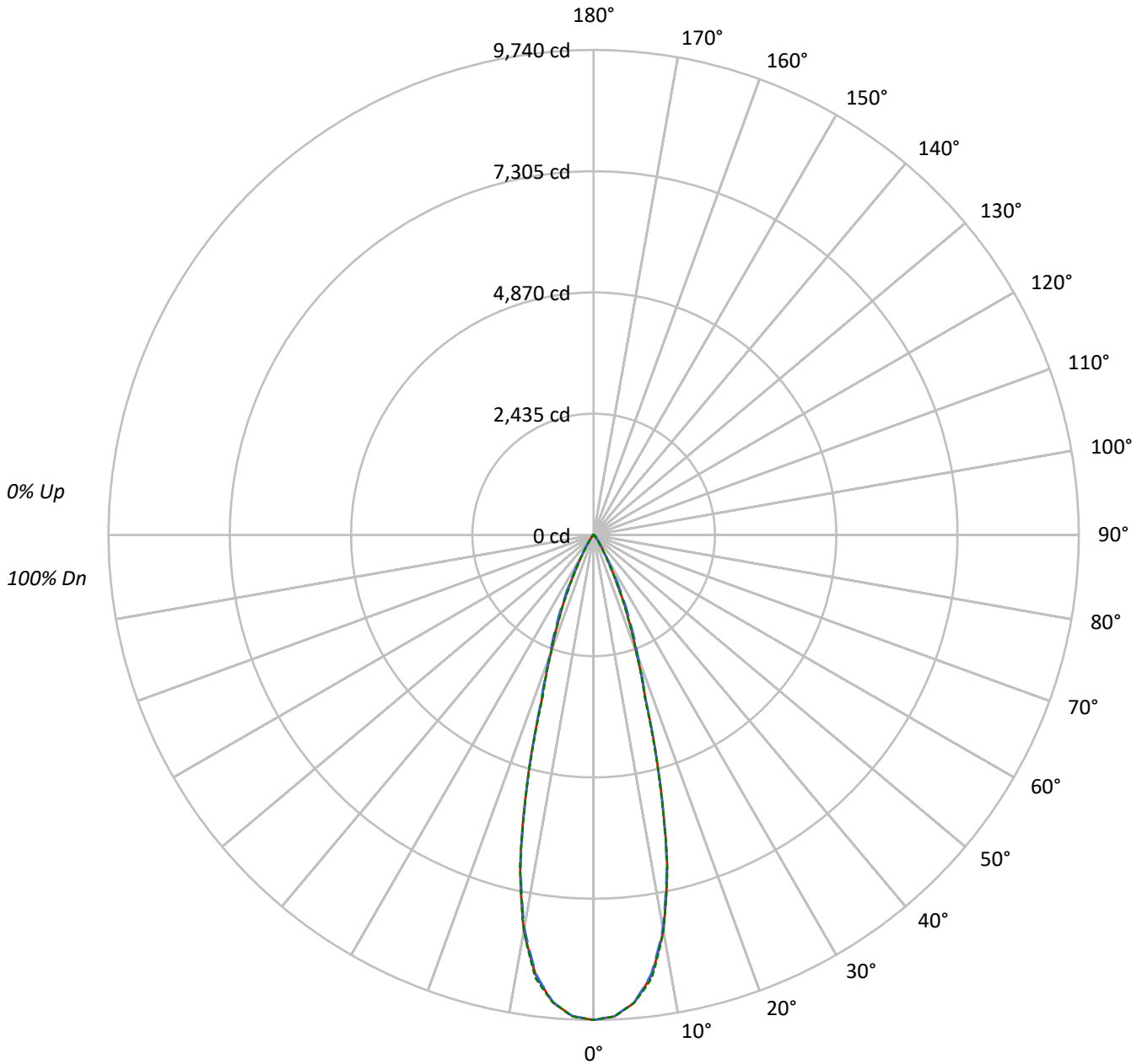
Input Watts (W): 30.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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°	745540	745540	745540
5°	724131	723286	724170
10°	627211	622788	627063
15°	409222	407027	404982
20°	203485	211125	203216
25°	102505	115587	100402
30°	41037	44714	35760
35°	19034	18231	15278
40°	8223	9123	7744
45°	5802	7199	5845
50°	1989	5240	2108
55°	1148	2175	1214
60°	811	949	811
65°	525	525	525
70°	313	224	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: 7199 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	856.5	28.3
10°-20°	1379.4	45.5
20°-30°	596.1	19.7
30°-40°	135.9	4.5
40°-50°	46.7	1.5
50°-60°	11.4	0.4
60°-70°	3.0	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°	2831.9	93.5
0°-40°	2967.8	98.0
0°-60°	3025.9	99.9
0°-90°	3029.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3029.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9740	9740	9740	9740	9740	
5°	9424	9415	9413	9433	9425	857
15°	5164	5102	5136	5120	5111	1383
25°	1214	1260	1369	1228	1189	581
35°	204	208	195	194	164	138
45°	54	66	66	66	54	38
55°	9	9	16	10	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°	9740.1	9740.1	9740.1	9740.1	9740.1
2.5°	9675.5	9668.8	9672.6	9677.4	9679.3
5°	9424.4	9415.4	9413.4	9433.0	9424.9
7.5°	8918.0	8905.1	8885.5	8930.0	8971.6
10°	8069.7	8055.3	8012.8	8033.8	8067.8
12.5°	6817.3	6770.9	6769.9	6836.9	6827.8
15°	5164.1	5102.0	5136.4	5119.6	5110.6
17.5°	3472.7	3448.8	3494.7	3480.8	3421.1
20°	2498.1	2504.4	2591.9	2547.9	2494.8
22.5°	1822.9	1845.4	1949.2	1835.8	1794.2
25°	1213.7	1259.6	1368.6	1227.5	1188.8
27.5°	746.5	767.5	878.0	736.9	715.9
30°	464.3	453.8	505.9	434.2	404.6
32.5°	304.6	291.2	308.0	276.4	252.5
35°	203.7	208.0	195.1	193.7	163.5
37.5°	127.2	146.3	129.1	137.7	105.2
40°	82.3	106.2	91.3	100.9	77.5
42.5°	67.4	81.8	75.1	79.9	68.9
45°	53.6	66.5	66.5	66.5	54.0
47.5°	29.6	44.5	56.9	45.4	31.6
50°	16.7	22.5	44.0	23.4	17.7
52.5°	11.5	12.9	30.1	13.4	12.0
55°	8.6	9.1	16.3	9.6	9.1
57.5°	6.7	7.2	8.6	7.2	6.7
60°	5.3	5.3	6.2	5.7	5.3
62.5°	3.8	3.8	4.3	3.8	3.8
65°	2.9	2.9	2.9	2.9	2.9
67.5°	1.4	1.9	1.9	1.9	1.9
70°	1.4	1.0	1.0	1.0	1.4
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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(END OF REPORT)