

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: P753804

Luminaire Tested: LD4D80BD010-EU4DR3070959035-4LBCSSQMB

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P753804  
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: LD4D80BD010-EU4DR3070959035-4LBCSSQMB  
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6858.2 lumens  
Efficiency: N/A  
Efficacy: 86.9 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

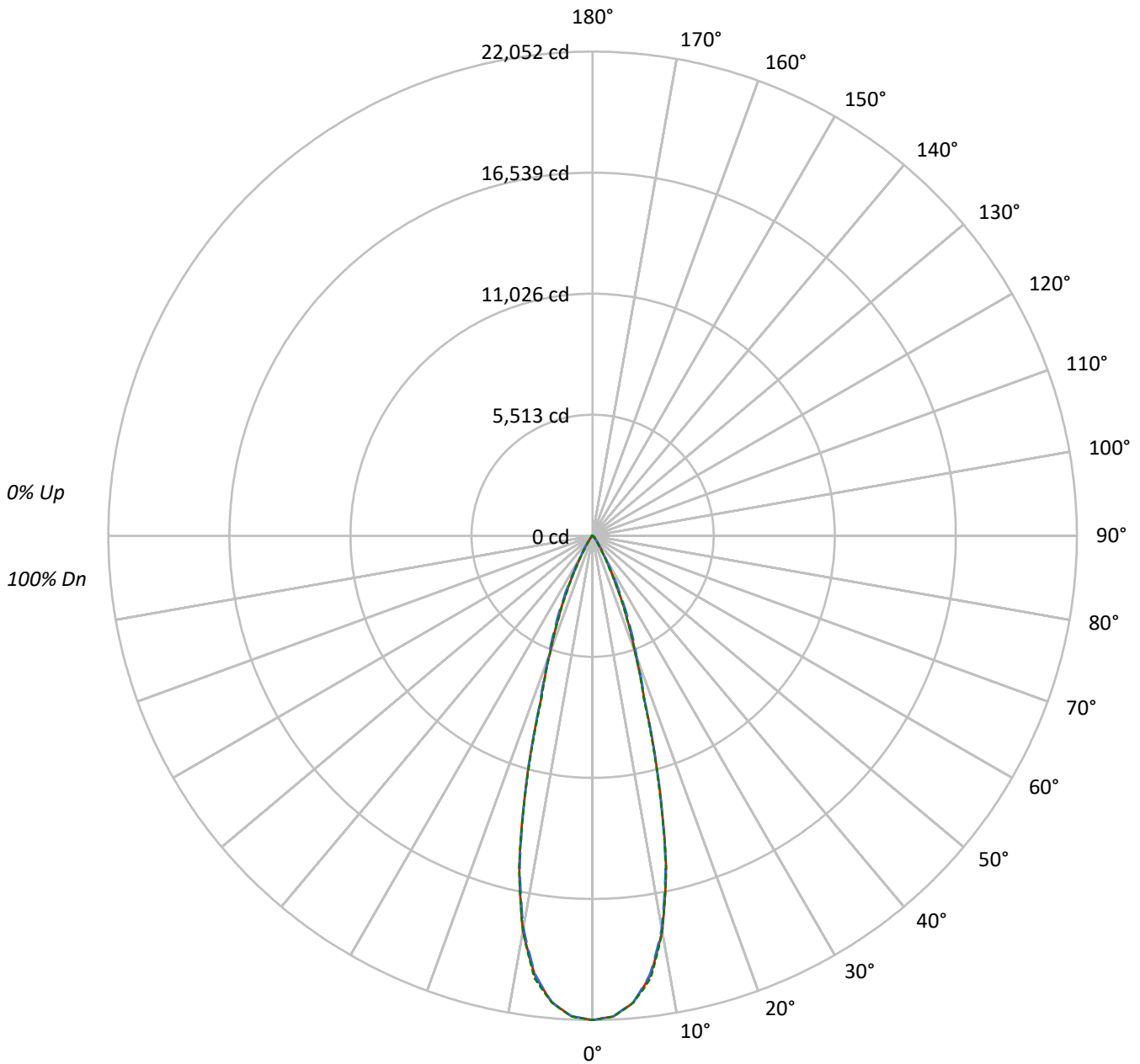
Input Watts (W): 78.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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°	1687966	1687966	1687966
5°	1639506	1637593	1639591
10°	1420060	1410049	1419726
15°	926524	921547	916911
20°	460714	477999	460095
25°	232077	261705	227323
30°	92919	101245	80960
35°	43096	41273	34602
40°	18605	20664	17526
45°	13131	16291	13239
50°	4513	11860	4775
55°	2602	4911	2749
60°	1822	2159	1822
65°	1177	1177	1177
70°	716	492	716
75°	0	325	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 16291 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1939.2	28.3
10°-20°	3123.1	45.5
20°-30°	1349.6	19.7
30°-40°	307.6	4.5
40°-50°	105.6	1.5
50°-60°	25.8	0.4
60°-70°	6.7	0.1
70°-80°	0.7	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°	6411.8	93.5
0°-40°	6719.4	98.0
0°-60°	6850.8	99.9
0°-90°	6858.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6858.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	22052	22052	22052	22052	22052	
5°	21338	21317	21313	21357	21339	1941
15°	11692	11551	11629	11591	11571	3131
25°	2748	2852	3099	2779	2692	1315
35°	461	471	442	438	370	313
45°	121	150	150	150	122	86
55°	20	21	37	22	21	19
65°	6	6	6	6	6	6
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°	22052.4	22052.4	22052.4	22052.4	22052.4
2.5°	21906.2	21891.1	21899.7	21910.6	21914.9
5°	21337.8	21317.2	21312.9	21357.3	21338.9
7.5°	20191.2	20162.0	20117.6	20218.3	20312.5
10°	18270.5	18238.0	18141.7	18189.3	18266.2
12.5°	15434.9	15329.9	15327.8	15479.3	15458.8
15°	11692.1	11551.3	11629.3	11591.4	11570.8
17.5°	7862.6	7808.4	7912.4	7881.0	7745.6
20°	5656.0	5670.1	5868.2	5768.6	5648.4
22.5°	4127.2	4178.1	4413.1	4156.5	4062.3
25°	2747.9	2851.8	3098.7	2779.3	2691.6
27.5°	1690.1	1737.7	1987.8	1668.4	1620.8
30°	1051.3	1027.5	1145.5	983.1	916.0
32.5°	689.7	659.4	697.3	625.8	571.7
35°	461.2	471.0	441.7	438.5	370.3
37.5°	288.0	331.3	292.3	311.8	238.2
40°	186.2	240.4	206.8	228.4	175.4
42.5°	152.7	185.1	170.0	180.8	155.9
45°	121.3	150.5	150.5	150.5	122.3
47.5°	67.1	100.7	128.8	102.9	71.5
50°	37.9	50.9	99.6	53.1	40.1
52.5°	26.0	29.2	68.2	30.3	27.1
55°	19.5	20.6	36.8	21.7	20.6
57.5°	15.2	16.2	19.5	16.2	15.2
60°	11.9	11.9	14.1	13.0	11.9
62.5°	8.7	8.7	9.7	8.7	8.7
65°	6.5	6.5	6.5	6.5	6.5
67.5°	3.2	4.3	4.3	4.3	4.3
70°	3.2	2.2	2.2	2.2	3.2
72.5°	2.2	1.1	1.1	1.1	1.1
75°	0.0	0.0	1.1	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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