

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: P753829

Luminaire Tested: LD4D80BD010-EU4DR3070959040-4LBSQW1MW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P753829  
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-EU4DR3070959040-4LBSQW1MW  
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6609.3 lumens  
Efficiency: N/A  
Efficacy: 83.8 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

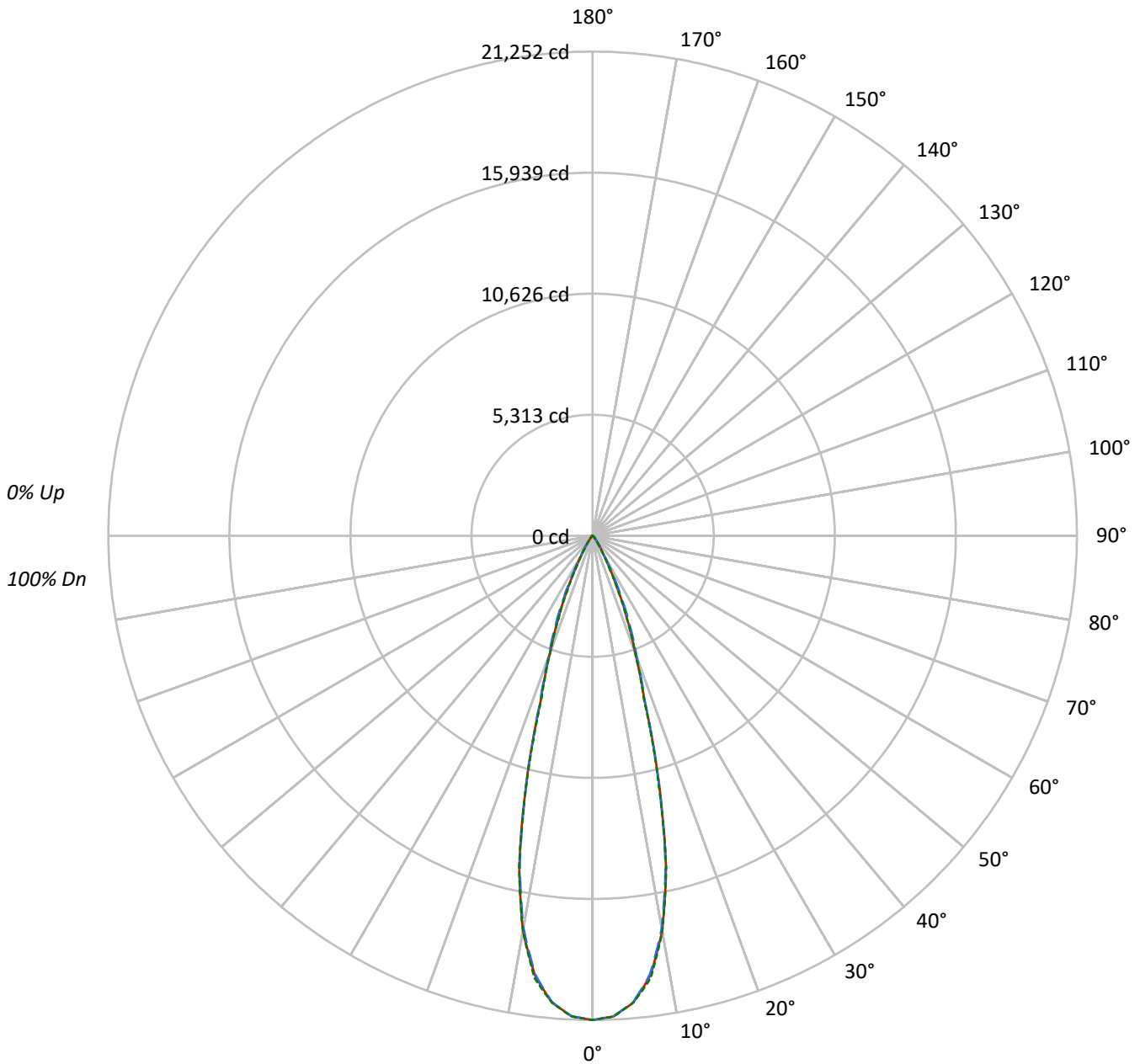
Input Watts (W): 78.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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					70					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								
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°	1626708	1626708	1626708
5°	1580013	1578168	1580089
10°	1368529	1358876	1368202
15°	892901	888098	883637
20°	443999	460657	443405
25°	223657	252203	219071
30°	89543	97568	78017
35°	41535	39778	33340
40°	17936	19914	16887
45°	12654	15696	12763
50°	4346	11432	4597
55°	2509	4737	2642
60°	1760	2082	1760
65°	1141	1141	1141
70°	694	470	694
75°	0	296	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 15696 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1868.8	28.3
10°-20°	3009.7	45.5
20°-30°	1300.6	19.7
30°-40°	296.4	4.5
40°-50°	101.8	1.5
50°-60°	24.9	0.4
60°-70°	6.5	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°	6179.1	93.5
0°-40°	6475.5	98.0
0°-60°	6602.2	99.9
0°-90°	6609.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6609.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	21252	21252	21252	21252	21252	
5°	20564	20544	20540	20582	20564	1870
15°	11268	11132	11207	11171	11151	3017
25°	2648	2748	2986	2678	2594	1268
35°	444	454	426	423	357	301
45°	117	145	145	145	118	83
55°	19	20	36	21	20	18
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°	21252.1	21252.1	21252.1	21252.1	21252.1
2.5°	21111.3	21096.6	21105.0	21115.4	21119.6
5°	20563.5	20543.6	20539.5	20582.2	20564.5
7.5°	19458.5	19430.3	19387.5	19484.6	19575.4
10°	17607.5	17576.2	17483.3	17529.2	17603.3
12.5°	14874.8	14773.6	14771.5	14917.6	14897.8
15°	11267.8	11132.1	11207.2	11170.7	11150.9
17.5°	7577.2	7525.1	7625.2	7595.0	7464.5
20°	5450.8	5464.3	5655.3	5559.3	5443.5
22.5°	3977.5	4026.5	4252.9	4005.6	3914.9
25°	2648.2	2748.3	2986.2	2678.4	2593.9
27.5°	1628.8	1674.7	1915.7	1607.9	1562.0
30°	1013.1	990.2	1103.9	947.4	882.7
32.5°	664.7	635.4	672.0	603.1	550.9
35°	444.5	453.9	425.7	422.6	356.8
37.5°	277.5	319.3	281.7	300.5	229.5
40°	179.5	231.6	199.3	220.2	169.0
42.5°	147.1	178.4	163.8	174.2	150.3
45°	116.9	145.0	145.0	145.0	117.9
47.5°	64.7	97.0	124.2	99.1	68.9
50°	36.5	49.0	96.0	51.1	38.6
52.5°	25.0	28.2	65.7	29.2	26.1
55°	18.8	19.8	35.5	20.9	19.8
57.5°	14.6	15.7	18.8	15.7	14.6
60°	11.5	11.5	13.6	12.5	11.5
62.5°	8.3	8.3	9.4	8.3	8.3
65°	6.3	6.3	6.3	6.3	6.3
67.5°	3.1	4.2	4.2	4.2	4.2
70°	3.1	2.1	2.1	2.1	3.1
72.5°	2.1	1.0	1.0	1.0	1.0
75°	0.0	0.0	1.0	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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