

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: P753816

Luminaire Tested: LD4D80BD010-EU4DR3070959035-4LBSQW1MW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P753816  
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-EU4DR3070959035-4LBSQW1MW  
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6314.1 lumens  
Efficiency: N/A  
Efficacy: 80.0 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

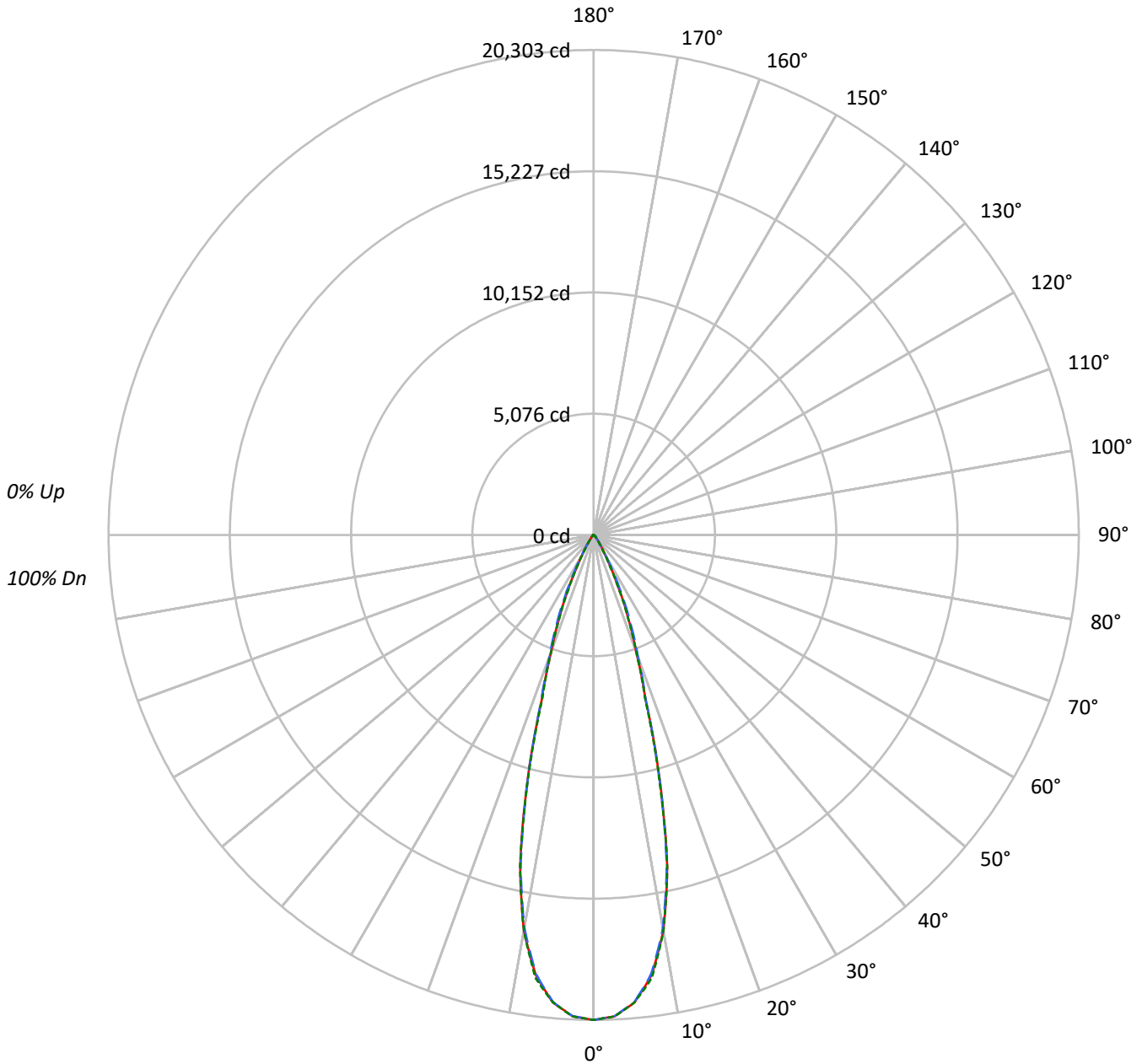
Input Watts (W): 78.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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°	1554053	1554053	1554053
5°	1509439	1507679	1509516
10°	1307407	1298188	1307096
15°	853017	848437	844166
20°	424165	440081	423594
25°	213666	240945	209291
30°	85548	93211	74535
35°	39676	38003	31854
40°	17136	19025	16137
45°	12081	15003	12189
50°	4156	10920	4394
55°	2389	4524	2522
60°	1684	1990	1684
65°	1087	1087	1087
70°	671	448	671
75°	0	296	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 15003 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1785.3	28.3
10°-20°	2875.3	45.5
20°-30°	1242.5	19.7
30°-40°	283.2	4.5
40°-50°	97.2	1.5
50°-60°	23.8	0.4
60°-70°	6.2	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°	5903.1	93.5
0°-40°	6186.3	98.0
0°-60°	6307.3	99.9
0°-90°	6314.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6314.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	20303	20303	20303	20303	20303	
5°	19645	19626	19622	19663	19646	1787
15°	10764	10635	10707	10672	10653	2882
25°	2530	2626	2853	2559	2478	1211
35°	425	434	407	404	341	288
45°	112	139	139	139	113	79
55°	18	19	34	20	19	17
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°	20302.9	20302.9	20302.9	20302.9	20302.9
2.5°	20168.3	20154.4	20162.4	20172.3	20176.3
5°	19645.0	19626.1	19622.1	19663.0	19646.0
7.5°	18589.4	18562.5	18521.6	18614.3	18701.0
10°	16821.1	16791.2	16702.5	16746.3	16817.1
12.5°	14210.4	14113.8	14111.8	14251.3	14232.4
15°	10764.5	10634.9	10706.7	10671.8	10652.8
17.5°	7238.8	7189.0	7284.6	7255.7	7131.1
20°	5207.3	5220.3	5402.7	5311.0	5200.3
22.5°	3799.8	3846.7	4063.0	3826.7	3740.0
25°	2529.9	2625.6	2852.9	2558.8	2478.1
27.5°	1556.0	1599.9	1830.1	1536.1	1492.2
30°	967.9	946.0	1054.6	905.1	843.3
32.5°	635.0	607.1	641.9	576.2	526.3
35°	424.6	433.6	406.7	403.7	340.9
37.5°	265.1	305.0	269.1	287.1	219.3
40°	171.5	221.3	190.4	210.3	161.5
42.5°	140.5	170.5	156.5	166.5	143.5
45°	111.6	138.6	138.6	138.6	112.6
47.5°	61.8	92.7	118.6	94.7	65.8
50°	34.9	46.8	91.7	48.8	36.9
52.5°	23.9	26.9	62.8	27.9	24.9
55°	17.9	18.9	33.9	19.9	18.9
57.5°	14.0	15.0	17.9	15.0	14.0
60°	11.0	11.0	13.0	12.0	11.0
62.5°	8.0	8.0	9.0	8.0	8.0
65°	6.0	6.0	6.0	6.0	6.0
67.5°	3.0	4.0	4.0	4.0	4.0
70°	3.0	2.0	2.0	2.0	3.0
72.5°	2.0	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

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Scaled Data Report



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Scaled Data Report







— 0°-180°    - - 45°-225°    - - - 90°-270°

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