

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: P753777

Luminaire Tested: LD4D80BD010-EU4DR3070959024-4LBSQW1MW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P753777  
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-EU4DR3070959024-4LBSQW1MW  
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5354.1 lumens  
Efficiency: N/A  
Efficacy: 67.9 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

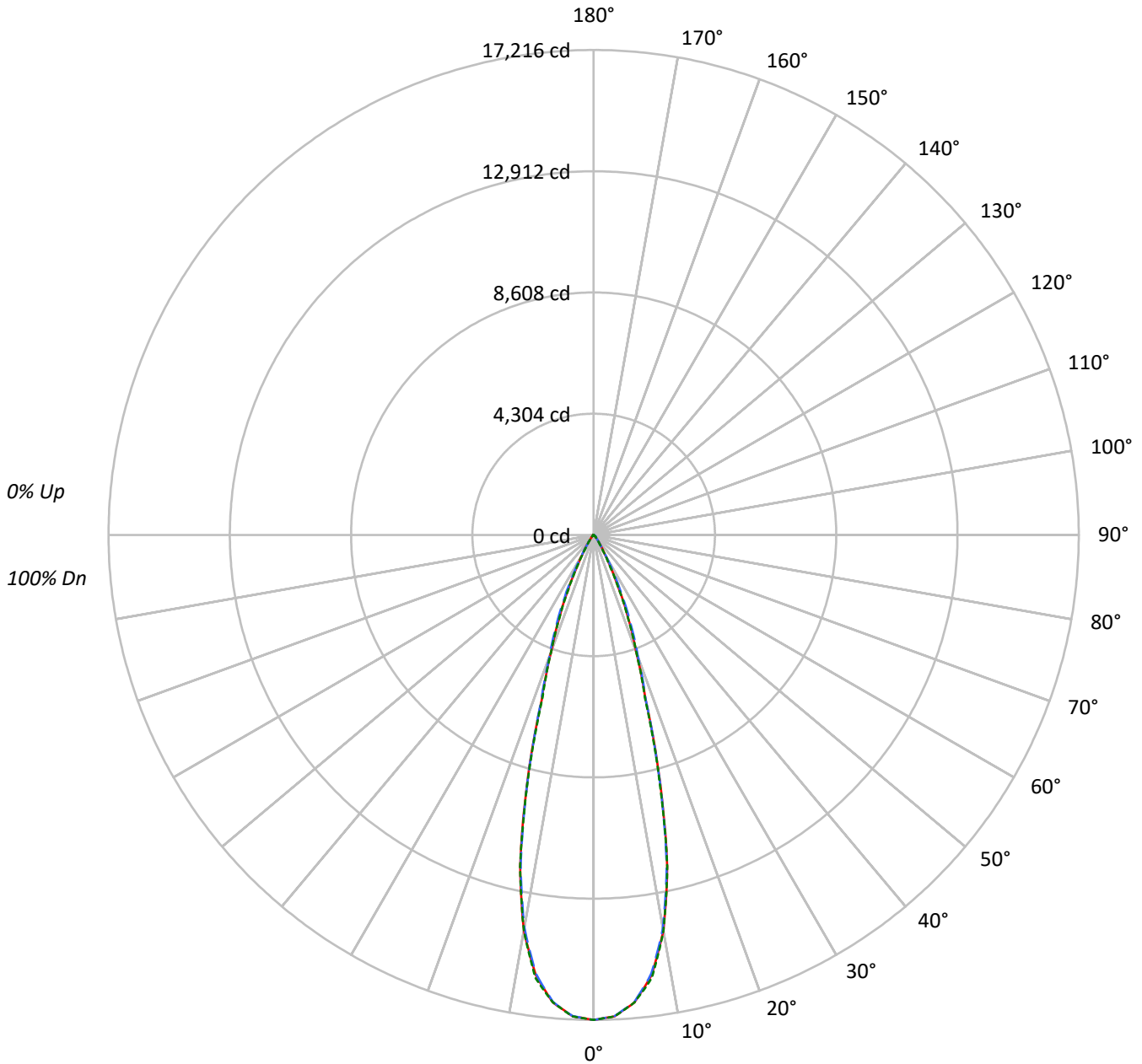
Input Watts (W): 78.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	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°	1317771	1317771	1317771
5°	1279938	1278447	1280007
10°	1108619	1100808	1108363
15°	723319	719436	715823
20°	359676	373165	359196
25°	181176	204308	177468
30°	72537	79042	63204
35°	33649	32228	27014
40°	14528	16127	13679
45°	10251	12719	10338
50°	3525	9264	3727
55°	2028	3830	2149
60°	1424	1684	1424
65°	924	924	924
70°	559	380	559
75°	0	237	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 12719 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1513.9	28.3
10°-20°	2438.1	45.5
20°-30°	1053.6	19.7
30°-40°	240.1	4.5
40°-50°	82.5	1.5
50°-60°	20.1	0.4
60°-70°	5.2	0.1
70°-80°	0.5	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°	5005.6	93.5
0°-40°	5245.7	98.0
0°-60°	5348.3	99.9
0°-90°	5354.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5354.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	17216	17216	17216	17216	17216	
5°	16658	16642	16639	16673	16659	1515
15°	9128	9018	9079	9049	9033	2444
25°	2145	2226	2419	2170	2101	1027
35°	360	368	345	342	289	244
45°	95	118	118	118	96	67
55°	15	16	29	17	16	15
65°	5	5	5	5	5	5
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°	17216.0	17216.0	17216.0	17216.0	17216.0
2.5°	17101.9	17090.1	17096.8	17105.3	17108.7
5°	16658.1	16642.1	16638.7	16673.4	16659.0
7.5°	15763.0	15740.2	15705.5	15784.2	15857.7
10°	14263.5	14238.2	14163.0	14200.2	14260.2
12.5°	12049.8	11967.9	11966.2	12084.5	12068.4
15°	9127.8	9017.9	9078.8	9049.2	9033.2
17.5°	6138.2	6095.9	6177.1	6152.6	6046.9
20°	4415.6	4426.6	4581.2	4503.5	4409.7
22.5°	3222.1	3261.8	3445.2	3244.9	3171.4
25°	2145.2	2226.4	2419.1	2169.8	2101.3
27.5°	1319.4	1356.6	1551.9	1302.5	1265.3
30°	820.7	802.1	894.3	767.5	715.1
32.5°	538.4	514.8	544.3	488.6	446.3
35°	360.1	367.7	344.9	342.3	289.1
37.5°	224.8	258.6	228.2	243.4	186.0
40°	145.4	187.6	161.4	178.3	136.9
42.5°	119.2	144.5	132.7	141.2	121.7
45°	94.7	117.5	117.5	117.5	95.5
47.5°	52.4	78.6	100.6	80.3	55.8
50°	29.6	39.7	77.8	41.4	31.3
52.5°	20.3	22.8	53.3	23.7	21.1
55°	15.2	16.1	28.7	16.9	16.1
57.5°	11.8	12.7	15.2	12.7	11.8
60°	9.3	9.3	11.0	10.1	9.3
62.5°	6.8	6.8	7.6	6.8	6.8
65°	5.1	5.1	5.1	5.1	5.1
67.5°	2.5	3.4	3.4	3.4	3.4
70°	2.5	1.7	1.7	1.7	2.5
72.5°	1.7	0.8	0.8	0.8	0.8
75°	0.0	0.0	0.8	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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