

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: P755387

Luminaire Tested: LD4D90BD010-EU4DR3070959040-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P755387
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: LD4D90BD010-EU4DR3070959040-4LBS1MW
Description: 4 INCH ROUND SHALLOW 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: 8883.4 lumens
Efficiency: N/A
Efficacy: 89.8 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

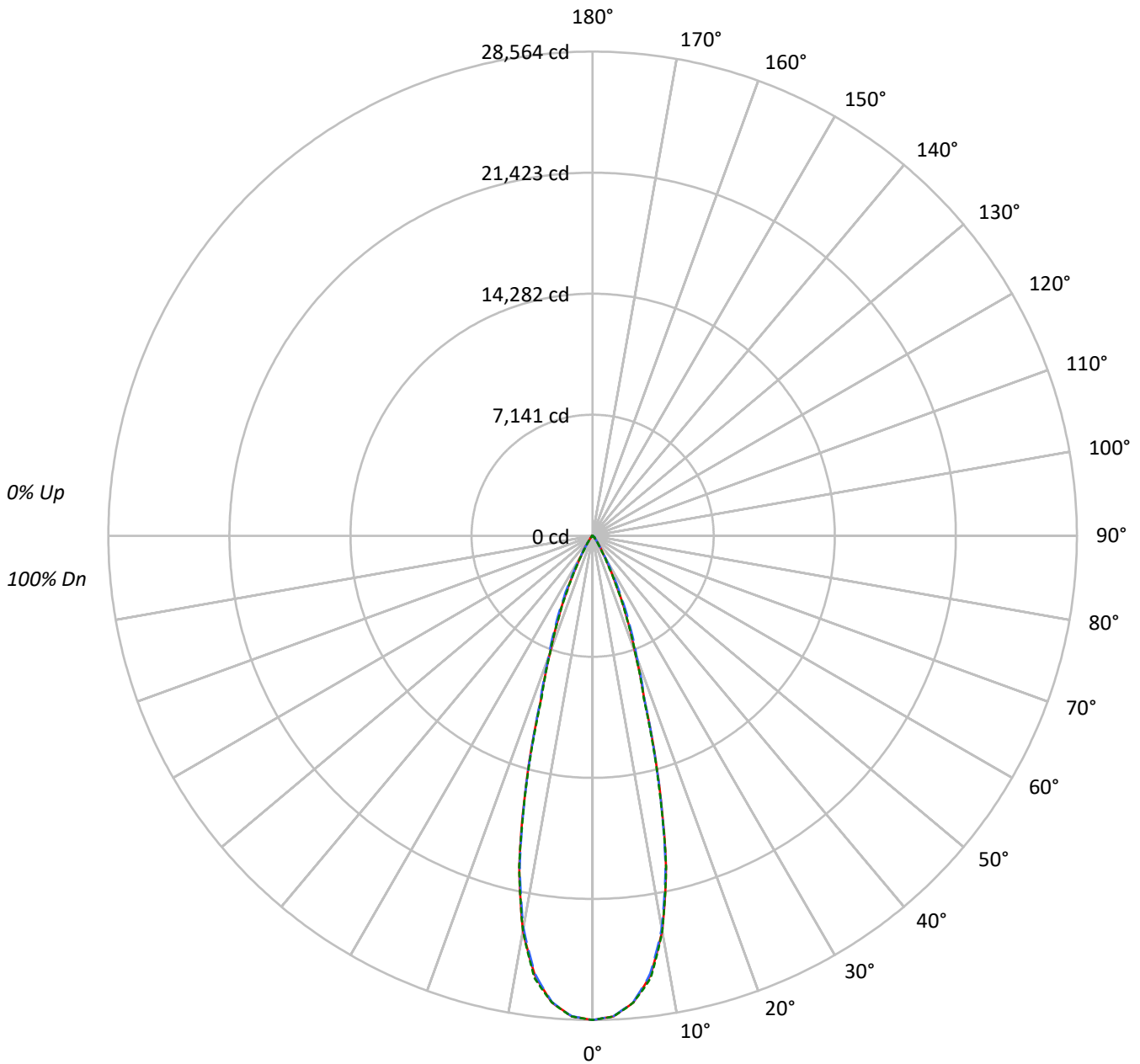
Input Watts (W): 98.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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																			
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°	2186424	2186424	2186424
5°	2123656	2121175	2123764
10°	1839405	1826433	1838970
15°	1200120	1193677	1187679
20°	596761	619154	595963
25°	300605	338982	294448
30°	120353	131145	104860
35°	55822	53468	44815
40°	24101	26769	22702
45°	17006	21098	17157
50°	5847	15361	6180
55°	3363	6366	3550
60°	2358	2786	2358
65°	1521	1521	1521
70°	940	627	940
75°	0	414	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 21098 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2511.8	28.3
10°-20°	4045.3	45.5
20°-30°	1748.1	19.7
30°-40°	398.4	4.5
40°-50°	136.8	1.5
50°-60°	33.4	0.4
60°-70°	8.6	0.1
70°-80°	0.9	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°	8305.2	93.5
0°-40°	8703.6	98.0
0°-60°	8873.8	99.9
0°-90°	8883.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8883.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	28564	28564	28564	28564	28564	
5°	27639	27612	27607	27664	27640	2514
15°	15145	14962	15063	15014	14988	4055
25°	3559	3694	4014	3600	3486	1704
35°	597	610	572	568	480	405
45°	157	195	195	195	158	111
55°	25	27	48	28	27	25
65°	8	8	8	8	8	8
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°	28564.5	28564.5	28564.5	28564.5	28564.5
2.5°	28375.2	28355.5	28366.7	28380.8	28386.4
5°	27638.9	27612.2	27606.6	27664.1	27640.3
7.5°	26153.7	26115.9	26058.4	26188.8	26310.8
10°	23665.8	23623.8	23498.9	23560.6	23660.2
12.5°	19992.9	19856.9	19854.1	20050.4	20023.7
15°	15144.7	14962.4	15063.4	15014.3	14987.7
17.5°	10184.4	10114.2	10248.9	10208.2	10032.9
20°	7326.2	7344.5	7601.1	7472.1	7316.4
22.5°	5346.0	5411.9	5716.3	5383.9	5261.9
25°	3559.3	3694.0	4013.7	3600.0	3486.4
27.5°	2189.2	2250.9	2574.8	2161.1	2099.4
30°	1361.7	1330.9	1483.8	1273.4	1186.4
32.5°	893.3	854.1	903.2	810.6	740.5
35°	597.4	610.1	572.2	568.0	479.6
37.5°	373.0	429.1	378.7	403.9	308.5
40°	241.2	311.3	267.9	295.9	227.2
42.5°	197.7	239.8	220.2	234.2	201.9
45°	157.1	194.9	194.9	194.9	158.5
47.5°	87.0	130.4	166.9	133.2	92.6
50°	49.1	65.9	129.0	68.7	51.9
52.5°	33.7	37.9	88.4	39.3	35.1
55°	25.2	26.6	47.7	28.0	26.6
57.5°	19.6	21.0	25.2	21.0	19.6
60°	15.4	15.4	18.2	16.8	15.4
62.5°	11.2	11.2	12.6	11.2	11.2
65°	8.4	8.4	8.4	8.4	8.4
67.5°	4.2	5.6	5.6	5.6	5.6
70°	4.2	2.8	2.8	2.8	4.2
72.5°	2.8	1.4	1.4	1.4	1.4
75°	0.0	0.0	1.4	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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