

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: P751500

Luminaire Tested: LD4D65D010-EU4DR3055659050-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P751500
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: LD4D65D010-EU4DR3055659050-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6926.8 lumens
Efficiency: N/A
Efficacy: 95.1 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

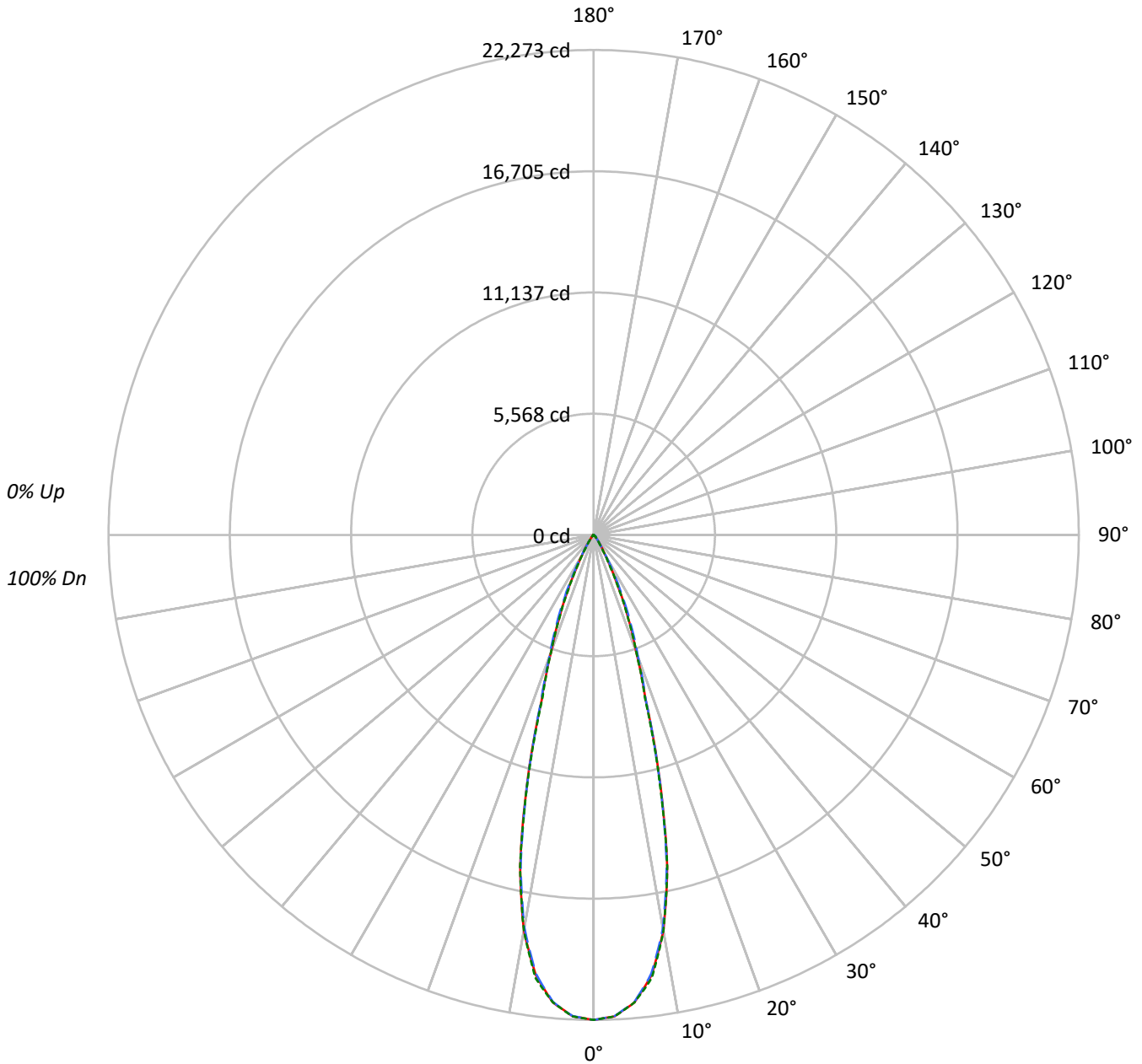
Input Watts (W): 72.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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	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°	1704843	1704843	1704843
5°	1655903	1653975	1655988
10°	1434260	1424148	1433926
15°	935787	930763	926080
20°	465324	482780	464697
25°	234400	264323	229594
30°	93847	102261	81765
35°	43525	41694	34947
40°	18795	20873	17706
45°	13260	16454	13380
50°	4561	11979	4823
55°	2629	4964	2776
60°	1837	2174	1837
65°	1195	1195	1195
70°	739	492	739
75°	0	325	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 16454 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1958.6	28.3
10°-20°	3154.3	45.5
20°-30°	1363.1	19.7
30°-40°	310.7	4.5
40°-50°	106.7	1.5
50°-60°	26.1	0.4
60°-70°	6.8	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°	6475.9	93.5
0°-40°	6786.6	98.0
0°-60°	6919.3	99.9
0°-90°	6926.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6926.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	22273	22273	22273	22273	22273	
5°	21551	21530	21526	21571	21552	1960
15°	11809	11667	11746	11707	11686	3162
25°	2775	2880	3130	2807	2718	1328
35°	466	476	446	443	374	316
45°	122	152	152	152	124	87
55°	20	21	37	22	21	19
65°	7	7	7	7	7	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°	22272.9	22272.9	22272.9	22272.9	22272.9
2.5°	22125.3	22110.0	22118.7	22129.7	22134.1
5°	21551.2	21530.4	21526.1	21570.9	21552.3
7.5°	20393.2	20363.6	20318.8	20420.5	20515.6
10°	18453.2	18420.4	18323.1	18371.2	18448.9
12.5°	15589.3	15483.2	15481.0	15634.1	15613.4
15°	11809.0	11666.8	11745.6	11707.3	11686.5
17.5°	7941.2	7886.5	7991.5	7959.8	7823.1
20°	5712.6	5726.8	5926.9	5826.3	5704.9
22.5°	4168.5	4219.9	4457.2	4198.0	4102.9
25°	2775.4	2880.3	3129.7	2807.1	2718.5
27.5°	1707.0	1755.1	2007.7	1685.1	1637.0
30°	1061.8	1037.8	1157.0	992.9	925.1
32.5°	696.6	666.0	704.2	632.1	577.4
35°	465.8	475.7	446.2	442.9	374.0
37.5°	290.9	334.6	295.3	314.9	240.6
40°	188.1	242.8	208.9	230.7	177.2
42.5°	154.2	187.0	171.7	182.6	157.5
45°	122.5	152.0	152.0	152.0	123.6
47.5°	67.8	101.7	130.1	103.9	72.2
50°	38.3	51.4	100.6	53.6	40.5
52.5°	26.2	29.5	68.9	30.6	27.3
55°	19.7	20.8	37.2	21.9	20.8
57.5°	15.3	16.4	19.7	16.4	15.3
60°	12.0	12.0	14.2	13.1	12.0
62.5°	8.7	8.7	9.8	8.7	8.7
65°	6.6	6.6	6.6	6.6	6.6
67.5°	3.3	4.4	4.4	4.4	4.4
70°	3.3	2.2	2.2	2.2	3.3
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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