

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: P753036

Luminaire Tested: LD4D75BD010-EU4DR3070959035-4LBSQW1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753036
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: LD4D75BD010-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: 5947.9 lumens
Efficiency: N/A
Efficacy: 82.2 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

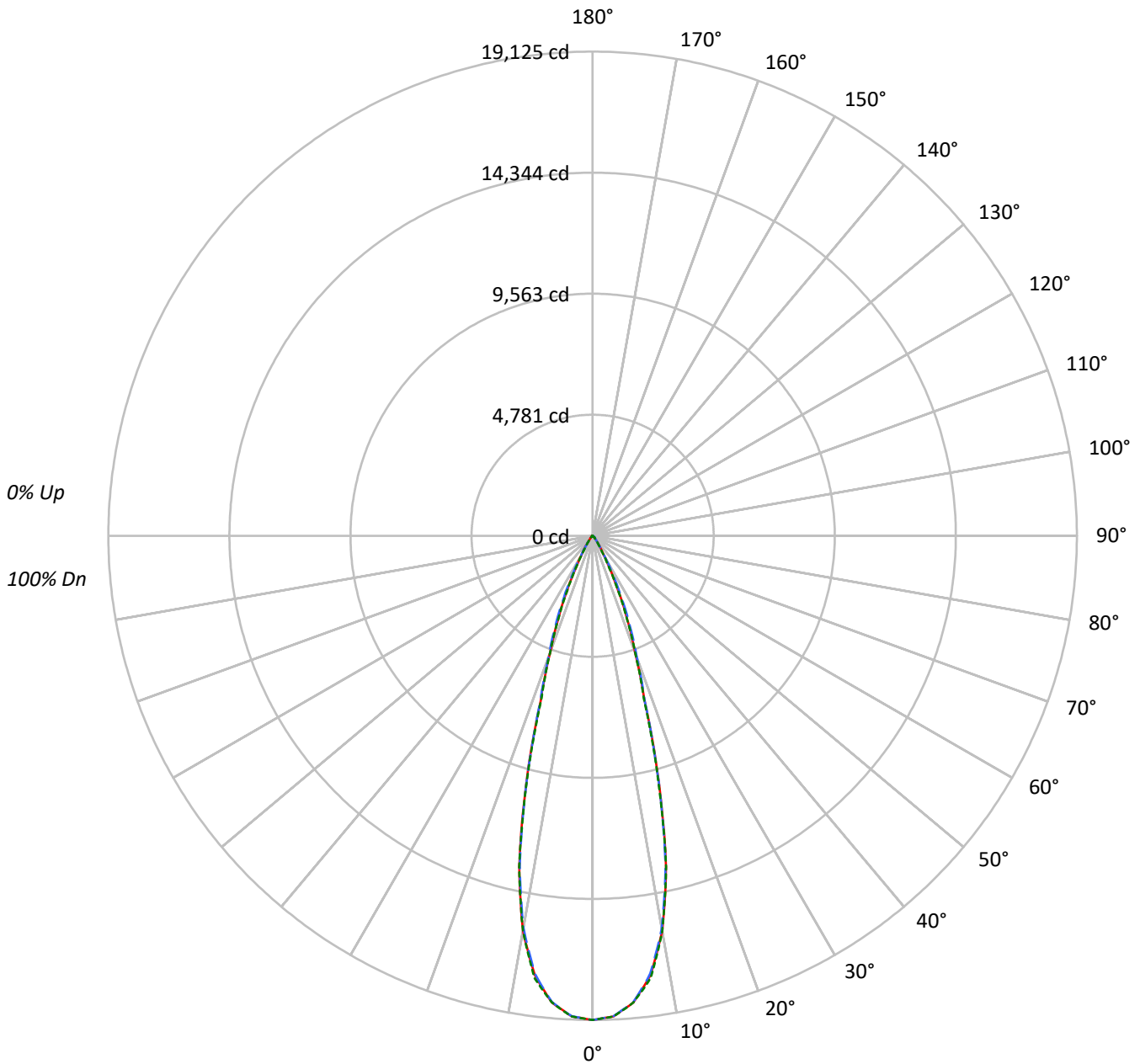
Input Watts (W): 72.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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																			
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°	1463923	1463923	1463923
5°	1421900	1420240	1421969
10°	1231579	1222897	1231291
15°	803545	799227	795209
20°	399565	414553	399027
25°	201276	226968	197146
30°	80589	87810	70213
35°	37377	35798	30004
40°	16137	17916	15198
45°	11388	14126	11485
50°	3918	10289	4132
55°	2255	4257	2375
60°	1577	1868	1577
65°	1014	1014	1014
70°	627	425	627
75°	0	266	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 14126 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1681.8	28.3
10°-20°	2708.5	45.5
20°-30°	1170.4	19.7
30°-40°	266.8	4.5
40°-50°	91.6	1.5
50°-60°	22.4	0.4
60°-70°	5.8	0.1
70°-80°	0.6	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°	5560.8	93.5
0°-40°	5827.5	98.0
0°-60°	5941.5	99.9
0°-90°	5947.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5947.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	19125	19125	19125	19125	19125	
5°	18506	18488	18484	18523	18507	1683
15°	10140	10018	10086	10053	10035	2715
25°	2383	2473	2687	2410	2334	1141
35°	400	408	383	380	321	271
45°	105	130	130	130	106	75
55°	17	18	32	19	18	16
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°	19125.4	19125.4	19125.4	19125.4	19125.4
2.5°	18998.6	18985.5	18993.0	19002.4	19006.2
5°	18505.7	18487.8	18484.1	18522.6	18506.6
7.5°	17511.3	17485.9	17447.4	17534.8	17616.4
10°	15845.5	15817.3	15733.8	15775.1	15841.8
12.5°	13386.3	13295.2	13293.3	13424.8	13406.9
15°	10140.2	10018.1	10085.7	10052.9	10035.0
17.5°	6819.0	6772.0	6862.2	6834.9	6717.6
20°	4905.3	4917.5	5089.3	5003.0	4898.7
22.5°	3579.4	3623.6	3827.3	3604.8	3523.1
25°	2383.2	2473.3	2687.4	2410.4	2334.3
27.5°	1465.8	1507.1	1724.0	1447.0	1405.7
30°	911.8	891.1	993.5	852.6	794.4
32.5°	598.1	571.8	604.7	542.7	495.8
35°	400.0	408.5	383.1	380.3	321.1
37.5°	249.8	287.3	253.5	270.4	206.6
40°	161.5	208.5	179.3	198.1	152.1
42.5°	132.4	160.6	147.4	156.8	135.2
45°	105.2	130.5	130.5	130.5	106.1
47.5°	58.2	87.3	111.7	89.2	62.0
50°	32.9	44.1	86.4	46.0	34.7
52.5°	22.5	25.4	59.2	26.3	23.5
55°	16.9	17.8	31.9	18.8	17.8
57.5°	13.1	14.1	16.9	14.1	13.1
60°	10.3	10.3	12.2	11.3	10.3
62.5°	7.5	7.5	8.5	7.5	7.5
65°	5.6	5.6	5.6	5.6	5.6
67.5°	2.8	3.8	3.8	3.8	3.8
70°	2.8	1.9	1.9	1.9	2.8
72.5°	1.9	0.9	0.9	0.9	0.9
75°	0.0	0.0	0.9	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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