

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: P752997

Luminaire Tested: LD4D75BD010-EU4DR3070959024-4LBSQW1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P752997
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-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: 5043.6 lumens
Efficiency: N/A
Efficacy: 69.7 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

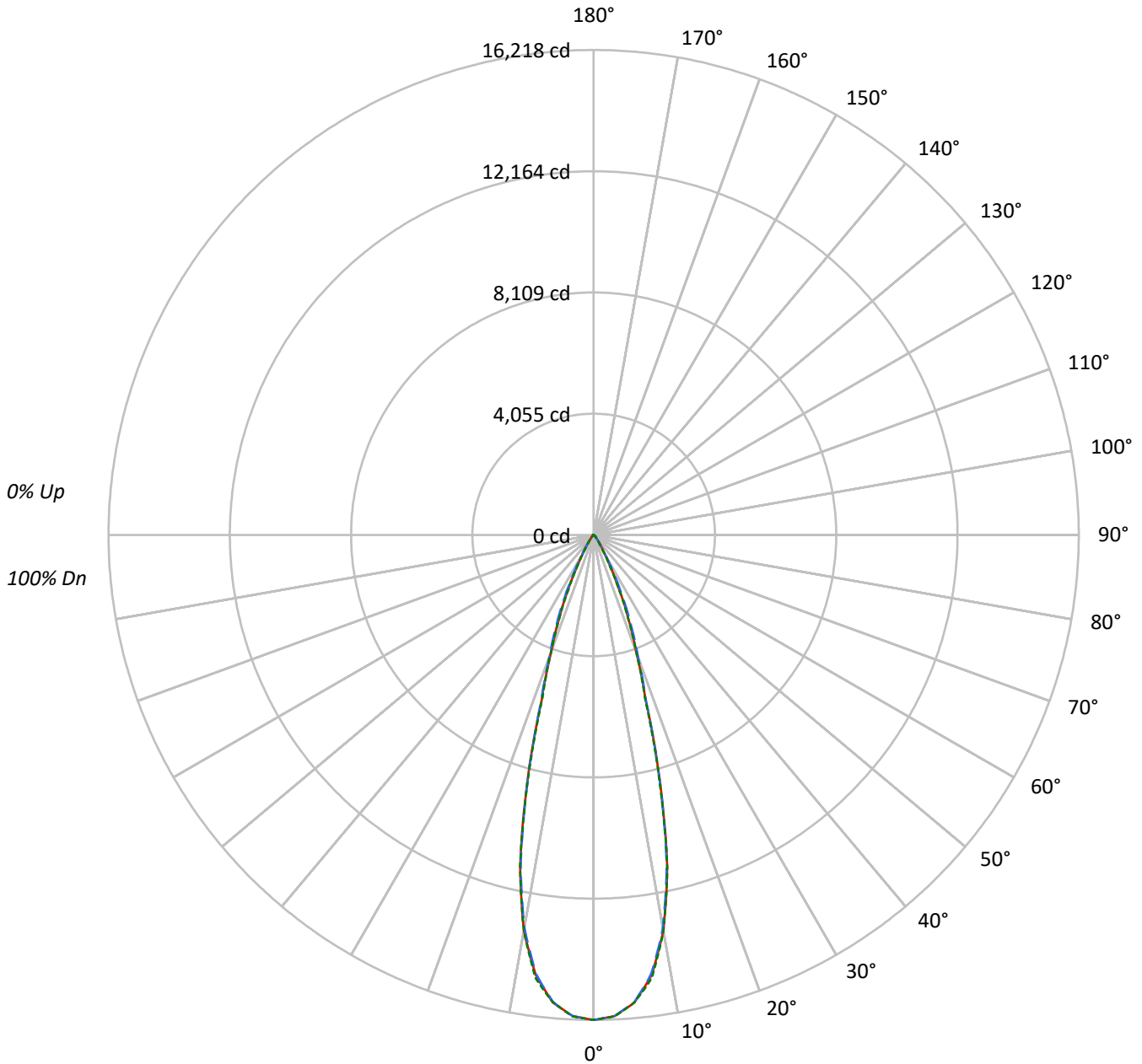
Input Watts (W): 72.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	1241343	1241343	1241343
5°	1205707	1204301	1205769
10°	1044326	1036965	1044077
15°	681368	677715	674307
20°	338815	351522	338359
25°	170669	192459	167173
30°	68330	74455	59536
35°	31696	30359	25444
40°	13689	15198	12890
45°	9656	11983	9742
50°	3322	8729	3513
55°	1908	3616	2015
60°	1347	1592	1347
65°	869	869	869
70°	537	358	537
75°	0	237	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 11983 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1426.1	28.3
10°-20°	2296.7	45.5
20°-30°	992.5	19.7
30°-40°	226.2	4.5
40°-50°	77.7	1.5
50°-60°	19.0	0.4
60°-70°	4.9	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°	4715.3	93.5
0°-40°	4941.5	98.0
0°-60°	5038.1	99.9
0°-90°	5043.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5043.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16218	16218	16218	16218	16218	
5°	15692	15677	15674	15706	15693	1427
15°	8598	8495	8552	8524	8509	2302
25°	2021	2097	2279	2044	1979	967
35°	339	346	325	322	272	230
45°	89	111	111	111	90	63
55°	14	15	27	16	15	14
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°	16217.5	16217.5	16217.5	16217.5	16217.5
2.5°	16110.0	16098.9	16105.3	16113.2	16116.4
5°	15692.0	15676.9	15673.7	15706.3	15692.8
7.5°	14848.8	14827.3	14794.7	14868.7	14938.0
10°	13436.3	13412.4	13341.6	13376.6	13433.1
12.5°	11351.0	11273.8	11272.2	11383.6	11368.5
15°	8598.4	8494.9	8552.3	8524.4	8509.3
17.5°	5782.2	5742.4	5818.8	5795.7	5696.2
20°	4159.5	4169.8	4315.5	4242.3	4153.9
22.5°	3035.2	3072.6	3245.4	3056.7	2987.4
25°	2020.8	2097.3	2278.8	2043.9	1979.4
27.5°	1242.9	1277.9	1461.9	1227.0	1191.9
30°	773.1	755.6	842.4	723.0	673.6
32.5°	507.2	484.9	512.8	460.2	420.4
35°	339.2	346.4	324.9	322.5	272.3
37.5°	211.8	243.6	215.0	229.3	175.2
40°	137.0	176.8	152.1	168.0	129.0
42.5°	112.3	136.2	125.0	133.0	114.7
45°	89.2	110.7	110.7	110.7	90.0
47.5°	49.4	74.0	94.8	75.6	52.6
50°	27.9	37.4	73.3	39.0	29.5
52.5°	19.1	21.5	50.2	22.3	19.9
55°	14.3	15.1	27.1	15.9	15.1
57.5°	11.1	11.9	14.3	11.9	11.1
60°	8.8	8.8	10.4	9.6	8.8
62.5°	6.4	6.4	7.2	6.4	6.4
65°	4.8	4.8	4.8	4.8	4.8
67.5°	2.4	3.2	3.2	3.2	3.2
70°	2.4	1.6	1.6	1.6	2.4
72.5°	1.6	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

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Scaled Data Report





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

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