

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: P747550

Luminaire Tested: LD4D40BD010-EU4DR3040509027-4LBSQW1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P747550
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: LD4D40BD010-EU4DR3040509027-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

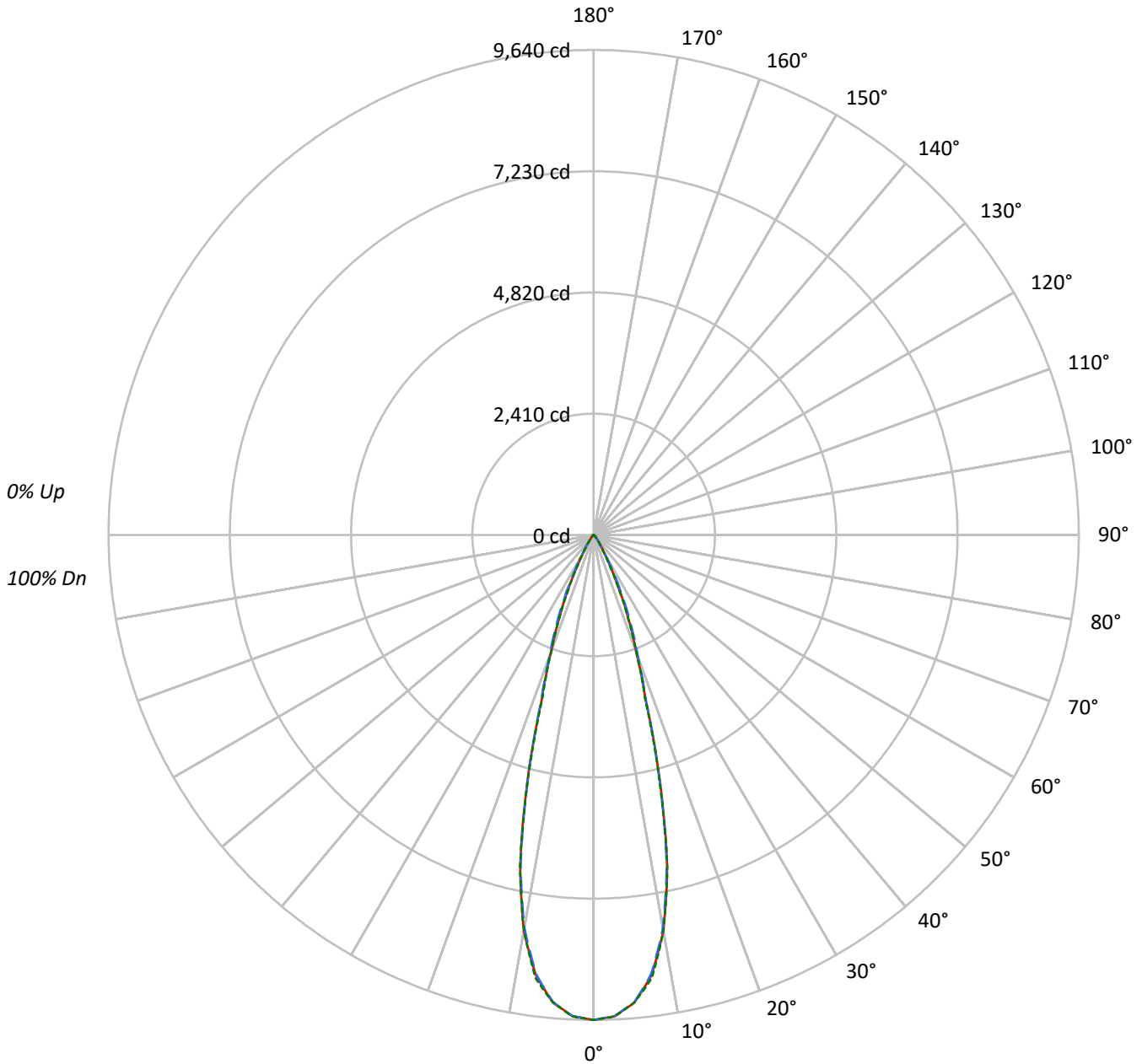
Lumens per Lamp: N/A
Luminaire Lumens: 2998.0 lumens
Efficiency: N/A
Efficacy: 85.2 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

Input Watts (W): 35.2
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						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°	737878	737878	737878
5°	716693	715856	716732
10°	620768	616392	620620
15°	405022	402843	400822
20°	201399	208950	201131
25°	101449	114404	99371
30°	40622	44254	35389
35°	18838	18044	15128
40°	8134	9033	7664
45°	5737	7123	5791
50°	1977	5180	2084
55°	1134	2149	1201
60°	796	949	796
65°	507	507	507
70°	313	201	313
75°	0	148	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 7123 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	847.7	28.3
10°-20°	1365.2	45.5
20°-30°	589.9	19.7
30°-40°	134.5	4.5
40°-50°	46.2	1.5
50°-60°	11.3	0.4
60°-70°	2.9	0.1
70°-80°	0.3	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°	2802.8	93.5
0°-40°	2937.3	98.0
0°-60°	2994.8	99.9
0°-90°	2998.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2998.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9640	9640	9640	9640	9640	
5°	9328	9319	9317	9336	9328	848
15°	5111	5050	5084	5067	5058	1369
25°	1201	1247	1355	1215	1177	575
35°	202	206	193	192	162	137
45°	53	66	66	66	54	38
55°	8	9	16	10	9	8
65°	3	3	3	3	3	3
75°	0	0	0	0	0	0
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°	9640.0	9640.0	9640.0	9640.0	9640.0
2.5°	9576.1	9569.5	9573.3	9578.0	9579.9
5°	9327.6	9318.6	9316.7	9336.1	9328.1
7.5°	8826.4	8813.6	8794.2	8838.2	8879.4
10°	7986.8	7972.6	7930.5	7951.3	7984.9
12.5°	6747.2	6701.3	6700.4	6766.6	6757.6
15°	5111.1	5049.5	5083.6	5067.1	5058.1
17.5°	3437.0	3413.4	3458.8	3445.1	3385.9
20°	2472.5	2478.6	2565.2	2521.7	2469.2
22.5°	1804.2	1826.4	1929.1	1817.0	1775.8
25°	1201.2	1246.6	1354.6	1214.9	1176.6
27.5°	738.8	759.6	869.0	729.3	708.5
30°	459.6	449.2	500.7	429.7	400.4
32.5°	301.5	288.2	304.8	273.6	249.9
35°	201.6	205.9	193.1	191.7	161.9
37.5°	125.9	144.8	127.8	136.3	104.1
40°	81.4	105.1	90.4	99.9	76.7
42.5°	66.7	80.9	74.3	79.0	68.2
45°	53.0	65.8	65.8	65.8	53.5
47.5°	29.3	44.0	56.3	45.0	31.2
50°	16.6	22.2	43.5	23.2	17.5
52.5°	11.4	12.8	29.8	13.3	11.8
55°	8.5	9.0	16.1	9.5	9.0
57.5°	6.6	7.1	8.5	7.1	6.6
60°	5.2	5.2	6.2	5.7	5.2
62.5°	3.8	3.8	4.3	3.8	3.8
65°	2.8	2.8	2.8	2.8	2.8
67.5°	1.4	1.9	1.9	1.9	1.9
70°	1.4	0.9	0.9	0.9	1.4
72.5°	0.9	0.5	0.5	0.5	0.5
75°	0.0	0.0	0.5	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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