

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: P755351

Luminaire Tested: LD4D90BD010-EU4DR3070959030-4LBCSSQMB

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P755351
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-EU4DR3070959030-4LBCSSQMB
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7664.7 lumens
Efficiency: N/A
Efficacy: 77.5 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

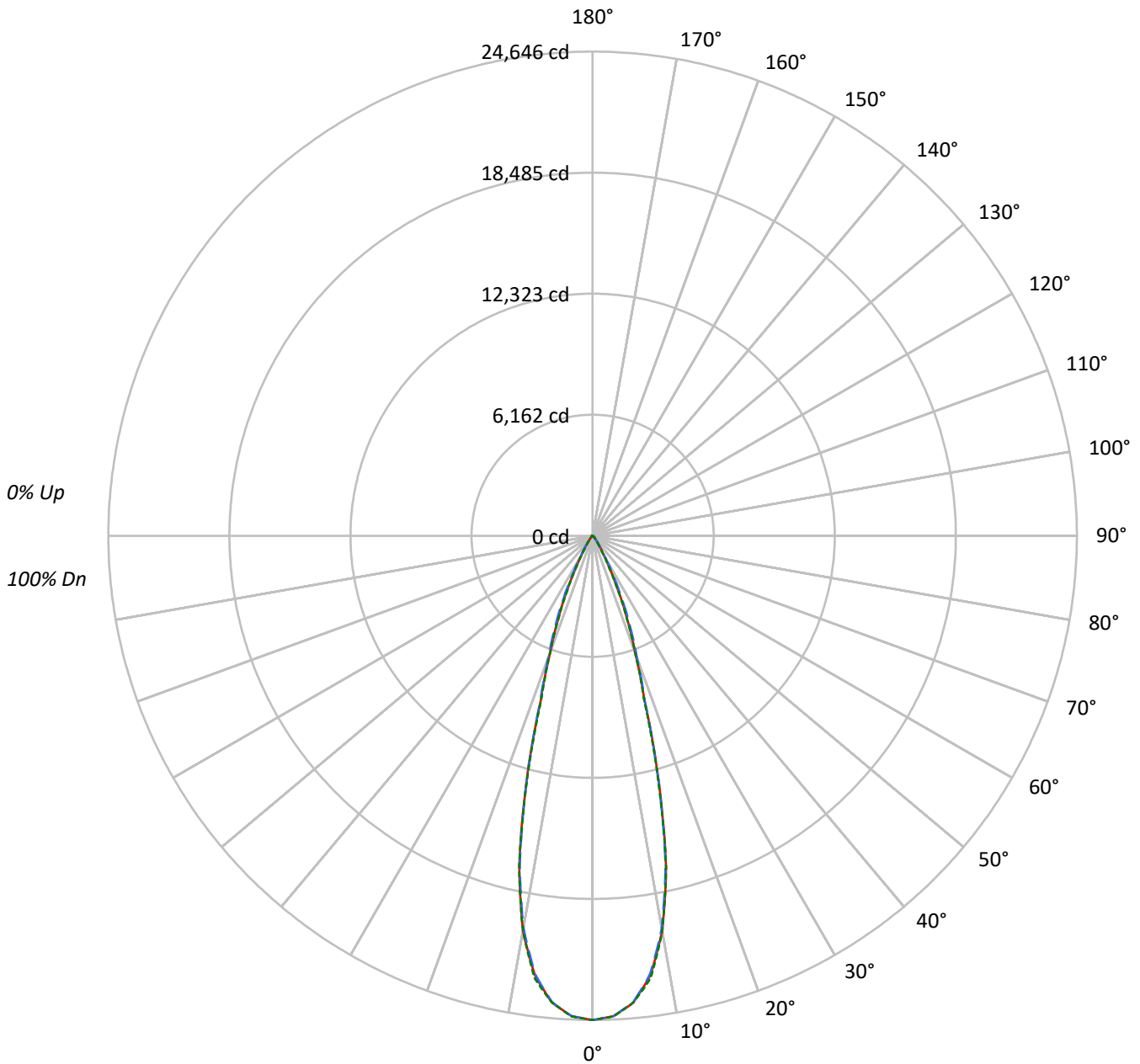
Input Watts (W): 98.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	1886458	1886458	1886458
5°	1832303	1830159	1832395
10°	1587050	1575858	1586677
15°	1035476	1029913	1024730
20°	514890	534211	514198
25°	259365	292481	254053
30°	103843	113150	90479
35°	48169	46132	38666
40°	20793	23092	19584
45°	14668	18207	14798
50°	5049	13254	5335
55°	2909	5485	3069
60°	2036	2403	2036
65°	1322	1322	1322
70°	806	537	806
75°	0	355	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 18207 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2167.2	28.3
10°-20°	3490.3	45.5
20°-30°	1508.3	19.7
30°-40°	343.8	4.5
40°-50°	118.0	1.5
50°-60°	28.8	0.4
60°-70°	7.5	0.1
70°-80°	0.8	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°	7165.8	93.5
0°-40°	7509.5	98.0
0°-60°	7656.4	99.9
0°-90°	7664.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7664.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	24646	24646	24646	24646	24646	
5°	23847	23824	23819	23869	23848	2169
15°	13067	12910	12997	12954	12931	3499
25°	3071	3187	3463	3106	3008	1470
35°	516	526	494	490	414	350
45°	136	168	168	168	137	96
55°	22	23	41	24	23	21
65°	7	7	7	7	7	7
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°	24645.6	24645.6	24645.6	24645.6	24645.6
2.5°	24482.2	24465.3	24475.0	24487.1	24491.9
5°	23847.0	23824.0	23819.1	23868.8	23848.2
7.5°	22565.6	22532.9	22483.3	22595.8	22701.1
10°	20419.0	20382.7	20275.0	20328.2	20414.2
12.5°	17250.0	17132.6	17130.2	17299.6	17276.6
15°	13067.0	12909.6	12996.8	12954.4	12931.4
17.5°	8787.1	8726.6	8842.8	8807.7	8656.4
20°	6321.1	6336.8	6558.3	6447.0	6312.6
22.5°	4612.6	4669.4	4932.0	4645.2	4540.0
25°	3071.0	3187.2	3463.1	3106.1	3008.1
27.5°	1888.8	1942.1	2221.6	1864.6	1811.4
30°	1174.9	1148.3	1280.2	1098.7	1023.7
32.5°	770.8	736.9	779.2	699.4	638.9
35°	515.5	526.4	493.7	490.1	413.8
37.5°	321.9	370.3	326.7	348.5	266.2
40°	208.1	268.6	231.1	255.3	196.0
42.5°	170.6	206.9	190.0	202.1	174.2
45°	135.5	168.2	168.2	168.2	136.7
47.5°	75.0	112.5	144.0	115.0	79.9
50°	42.4	56.9	111.3	59.3	44.8
52.5°	29.0	32.7	76.2	33.9	30.3
55°	21.8	23.0	41.1	24.2	23.0
57.5°	16.9	18.2	21.8	18.2	16.9
60°	13.3	13.3	15.7	14.5	13.3
62.5°	9.7	9.7	10.9	9.7	9.7
65°	7.3	7.3	7.3	7.3	7.3
67.5°	3.6	4.8	4.8	4.8	4.8
70°	3.6	2.4	2.4	2.4	3.6
72.5°	2.4	1.2	1.2	1.2	1.2
75°	0.0	0.0	1.2	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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