

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: P755325

Luminaire Tested: LD4D90BD010-EU4DR3070959024-4LBCSSQMB

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P755325
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-EU4DR3070959024-4LBCSSQMB
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

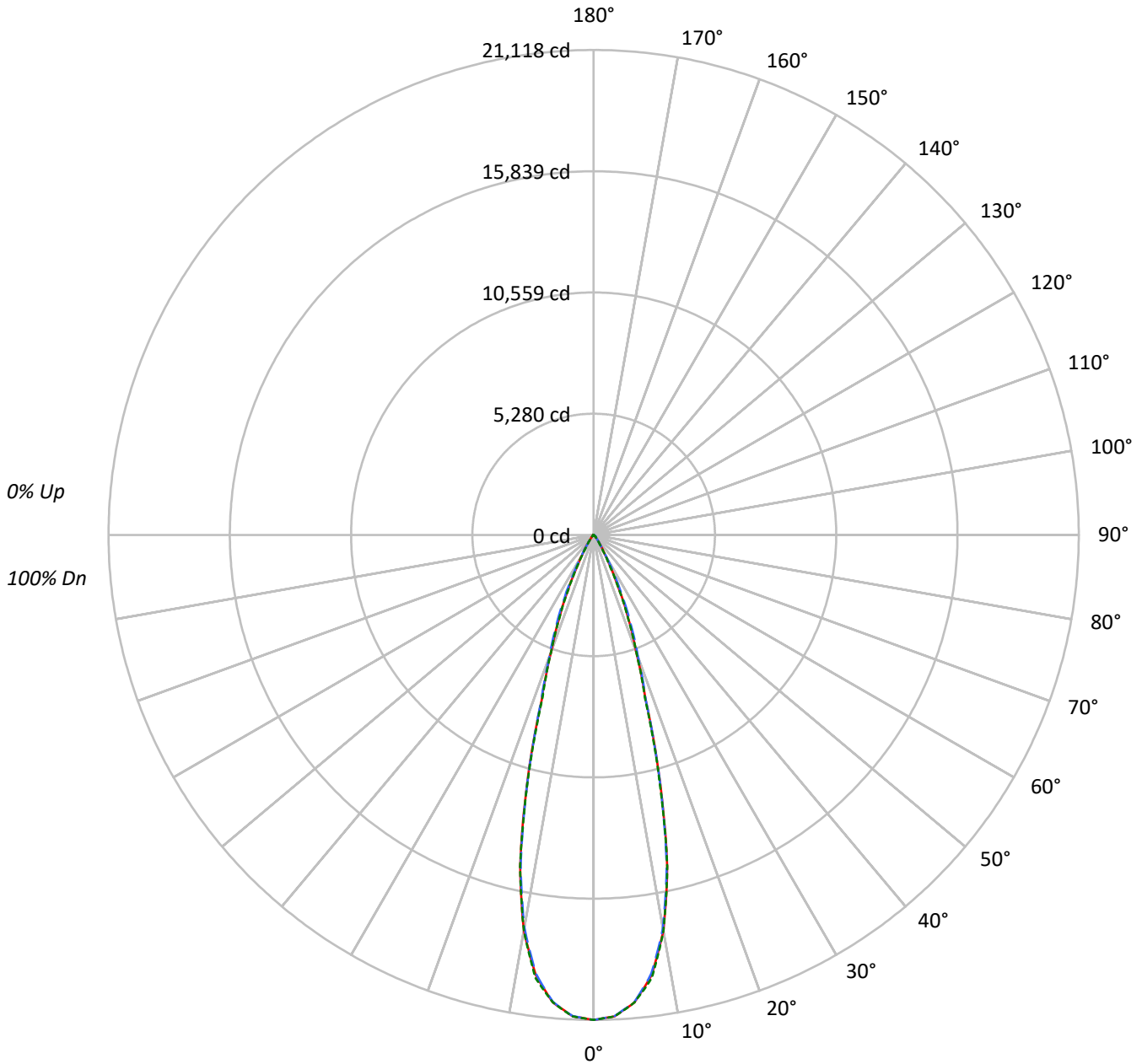
Lumens per Lamp: N/A
Luminaire Lumens: 6567.7 lumens
Efficiency: N/A
Efficacy: 66.4 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

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°	1616482	1616482	1616482
5°	1570078	1568249	1570155
10°	1359925	1350334	1359606
15°	887282	882520	878082
20°	441205	457757	440611
25°	222247	250624	217695
30°	88986	96958	77531
35°	41273	39526	33135
40°	17816	19784	16787
45°	12568	15599	12687
50°	4323	11360	4573
55°	2496	4711	2629
60°	1745	2067	1745
65°	1123	1123	1123
70°	694	470	694
75°	0	296	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 15599 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1857.1	28.3
10°-20°	2990.8	45.5
20°-30°	1292.4	19.7
30°-40°	294.6	4.5
40°-50°	101.1	1.5
50°-60°	24.7	0.4
60°-70°	6.4	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°	6140.3	93.5
0°-40°	6434.8	98.0
0°-60°	6560.7	99.9
0°-90°	6567.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6567.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	21118	21118	21118	21118	21118	
5°	20434	20414	20410	20453	20435	1859
15°	11197	11062	11137	11100	11081	2998
25°	2632	2731	2968	2662	2578	1260
35°	442	451	423	420	355	300
45°	116	144	144	144	117	82
55°	19	20	35	21	20	18
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°	21118.5	21118.5	21118.5	21118.5	21118.5
2.5°	20978.6	20964.0	20972.3	20982.7	20986.8
5°	20434.2	20414.5	20410.4	20452.9	20435.2
7.5°	19336.2	19308.2	19265.7	19362.1	19452.3
10°	17496.8	17465.7	17373.4	17419.1	17492.7
12.5°	14781.3	14680.7	14678.7	14823.8	14804.1
15°	11196.9	11062.1	11136.8	11100.5	11080.8
17.5°	7529.6	7477.7	7577.3	7547.2	7417.6
20°	5416.5	5430.0	5619.7	5524.3	5409.2
22.5°	3952.5	4001.2	4226.2	3980.5	3890.3
25°	2631.5	2731.1	2967.5	2661.6	2577.6
27.5°	1618.5	1664.1	1903.7	1597.8	1552.2
30°	1006.8	984.0	1097.0	941.5	877.2
32.5°	660.5	631.4	667.7	599.3	547.5
35°	441.7	451.0	423.0	419.9	354.6
37.5°	275.8	317.3	279.9	298.6	228.1
40°	178.3	230.2	198.0	218.8	168.0
42.5°	146.2	177.3	162.8	173.2	149.3
45°	116.1	144.1	144.1	144.1	117.2
47.5°	64.3	96.4	123.4	98.5	68.4
50°	36.3	48.7	95.4	50.8	38.4
52.5°	24.9	28.0	65.3	29.0	25.9
55°	18.7	19.7	35.3	20.7	19.7
57.5°	14.5	15.6	18.7	15.6	14.5
60°	11.4	11.4	13.5	12.4	11.4
62.5°	8.3	8.3	9.3	8.3	8.3
65°	6.2	6.2	6.2	6.2	6.2
67.5°	3.1	4.1	4.1	4.1	4.1
70°	3.1	2.1	2.1	2.1	3.1
72.5°	2.1	1.0	1.0	1.0	1.0
75°	0.0	0.0	1.0	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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