

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: P753832

Luminaire Tested: LD4D80BD010-EU4DR3070959050-4LBCSSQMW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753832
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: LD4D80BD010-EU4DR3070959050-4LBCSSQMW
Description: 4 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

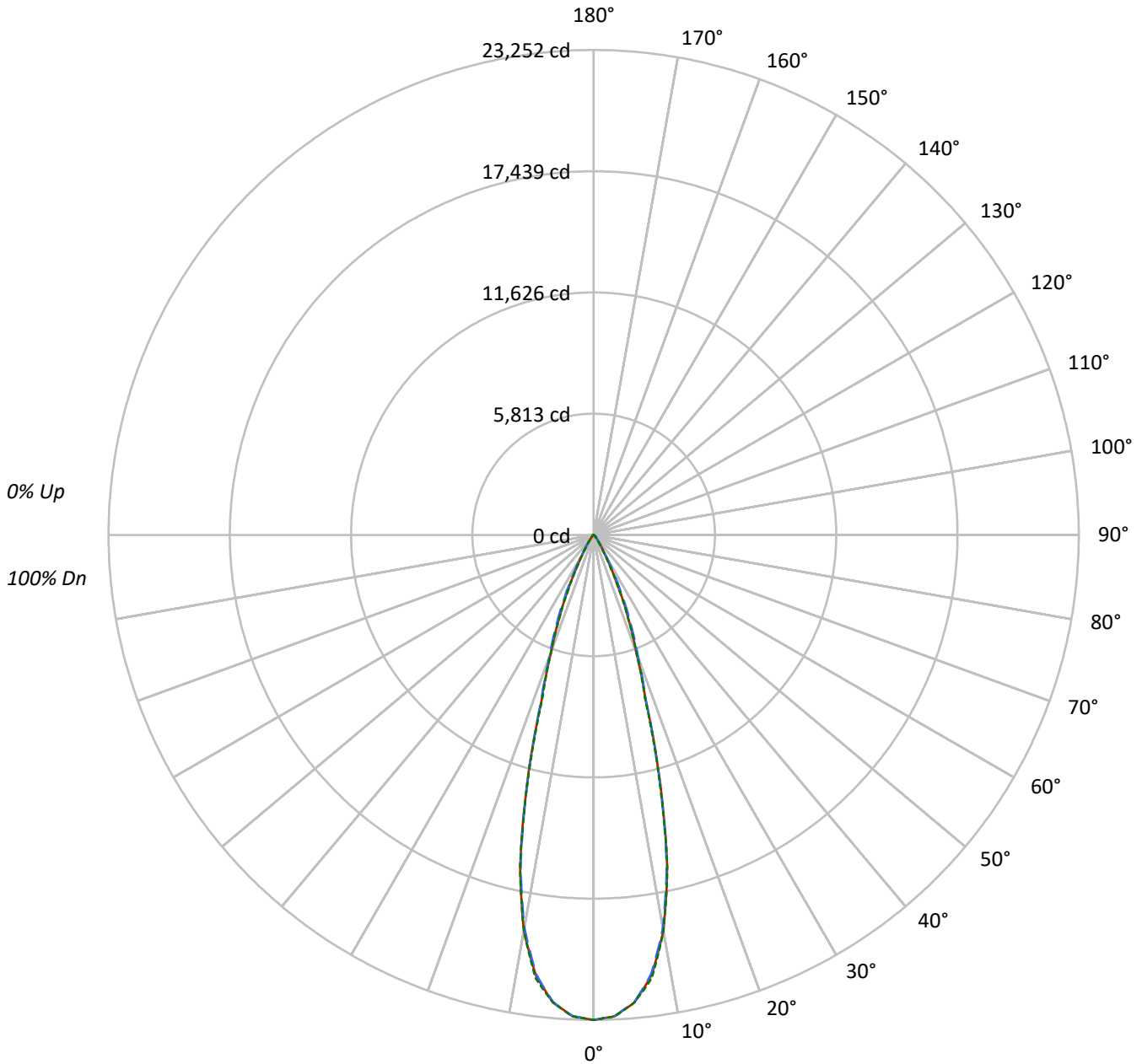
Lumens per Lamp: N/A
Luminaire Lumens: 7231.2 lumens
Efficiency: N/A
Efficacy: 91.7 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

Input Watts (W): 78.9
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°	1779779	1779779	1779779
5°	1728690	1726669	1728774
10°	1497302	1486747	1496953
15°	976915	971669	966787
20°	485778	503999	485126
25°	244704	275936	239687
30°	97974	106751	85362
35°	45441	43525	36480
40°	19624	21783	18475
45°	13845	17179	13964
50°	4763	12503	5025
55°	2736	5178	2896
60°	1929	2266	1929
65°	1232	1232	1232
70°	761	515	761
75°	0	325	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 17179 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2044.7	28.3
10°-20°	3292.9	45.5
20°-30°	1423.0	19.7
30°-40°	324.3	4.5
40°-50°	111.4	1.5
50°-60°	27.2	0.4
60°-70°	7.0	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°	6760.6	93.5
0°-40°	7084.9	98.0
0°-60°	7223.4	99.9
0°-90°	7231.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7231.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	23252	23252	23252	23252	23252	
5°	22498	22477	22472	22519	22500	2046
15°	12328	12180	12262	12222	12200	3301
25°	2897	3007	3267	2930	2838	1387
35°	486	497	466	462	390	330
45°	128	159	159	159	129	91
55°	20	22	39	23	22	20
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°	23251.9	23251.9	23251.9	23251.9	23251.9
2.5°	23097.8	23081.8	23091.0	23102.4	23106.9
5°	22498.5	22476.8	22472.2	22519.0	22499.6
7.5°	21289.5	21258.7	21211.9	21318.1	21417.4
10°	19264.3	19230.1	19128.5	19178.7	19259.8
12.5°	16274.5	16163.8	16161.5	16321.3	16299.6
15°	12328.0	12179.6	12261.8	12221.9	12200.2
17.5°	8290.2	8233.2	8342.7	8309.6	8166.9
20°	5963.7	5978.5	6187.4	6082.4	5955.7
22.5°	4351.7	4405.4	4653.1	4382.6	4283.2
25°	2897.4	3007.0	3267.2	2930.5	2838.0
27.5°	1782.0	1832.3	2096.0	1759.2	1709.0
30°	1108.5	1083.4	1207.8	1036.6	965.8
32.5°	727.2	695.2	735.2	659.8	602.8
35°	486.3	496.6	465.8	462.3	390.4
37.5°	303.7	349.3	308.2	328.8	251.1
40°	196.4	253.4	218.0	240.9	184.9
42.5°	161.0	195.2	179.2	190.6	164.4
45°	127.9	158.7	158.7	158.7	129.0
47.5°	70.8	106.2	135.8	108.5	75.3
50°	40.0	53.7	105.0	55.9	42.2
52.5°	27.4	30.8	71.9	32.0	28.5
55°	20.5	21.7	38.8	22.8	21.7
57.5°	16.0	17.1	20.5	17.1	16.0
60°	12.6	12.6	14.8	13.7	12.6
62.5°	9.1	9.1	10.3	9.1	9.1
65°	6.8	6.8	6.8	6.8	6.8
67.5°	3.4	4.6	4.6	4.6	4.6
70°	3.4	2.3	2.3	2.3	3.4
72.5°	2.3	1.1	1.1	1.1	1.1
75°	0.0	0.0	1.1	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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