

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: P753798

Luminaire Tested: LD4D80BD010-EU4DR3070959030-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753798
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-EU4DR3070959030-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7334.7 lumens
Efficiency: N/A
Efficacy: 93.0 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

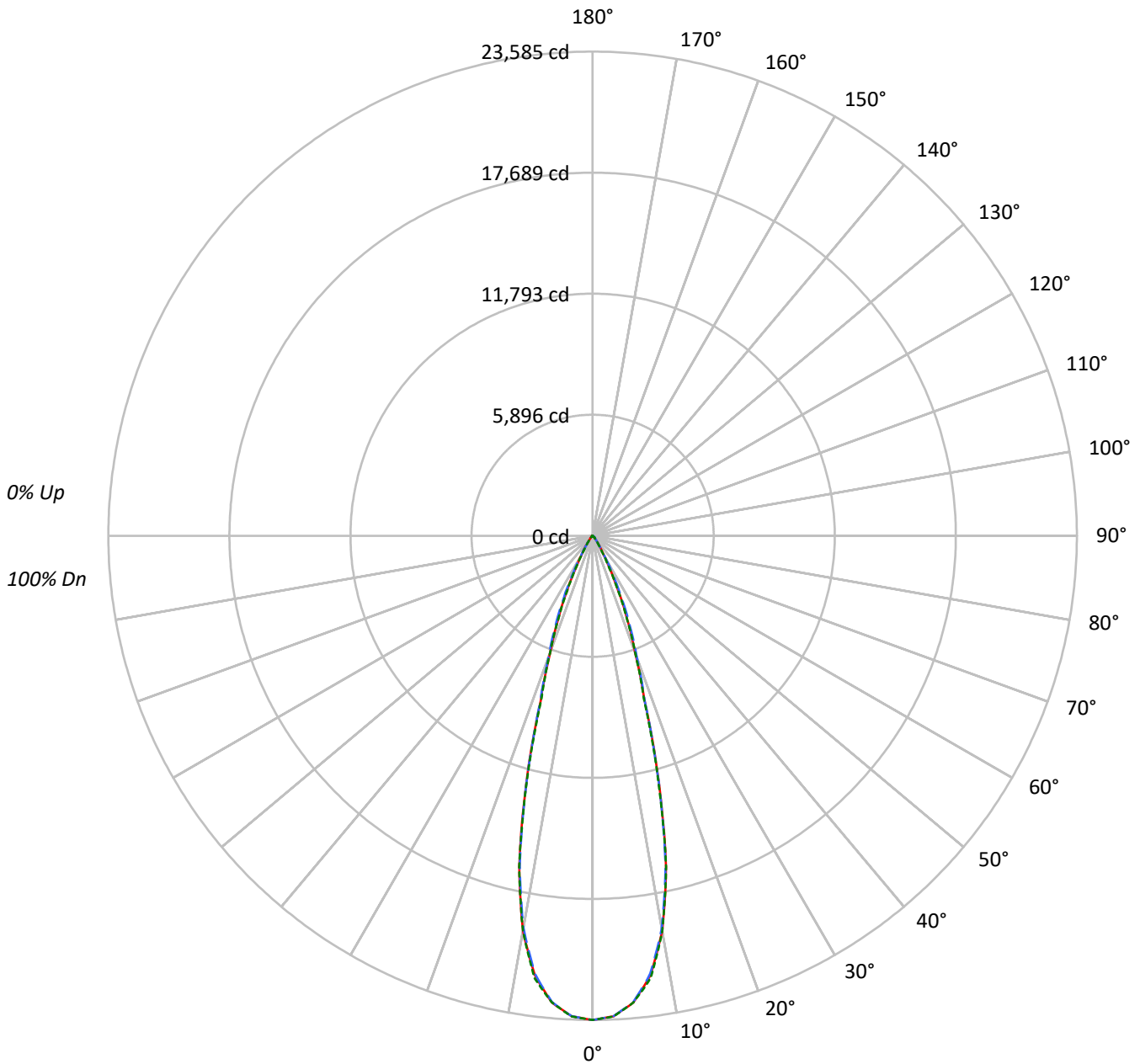
Input Watts (W): 78.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

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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																			
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96																			
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92																			
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89																			
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85																			
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82																			
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79																			
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77																			
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74																			
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72																			
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1805253	1805253	1805253
5°	1753423	1751379	1753515
10°	1518731	1508020	1518373
15°	990901	985576	980623
20°	492726	511216	492066
25°	248200	279888	243116
30°	99371	108280	86582
35°	46095	44142	37003
40°	19904	22102	18745
45°	14040	17428	14159
50°	4823	12682	5097
55°	2776	5258	2936
60°	1944	2312	1944
65°	1250	1250	1250
70°	783	515	783
75°	0	355	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 17428 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2073.9	28.3
10°-20°	3340.1	45.5
20°-30°	1443.3	19.7
30°-40°	329.0	4.5
40°-50°	113.0	1.5
50°-60°	27.6	0.4
60°-70°	7.1	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°	6857.3	93.5
0°-40°	7186.3	98.0
0°-60°	7326.8	99.9
0°-90°	7334.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7334.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	23585	23585	23585	23585	23585	
5°	22820	22798	22794	22841	22822	2076
15°	12504	12354	12437	12397	12375	3348
25°	2939	3050	3314	2972	2879	1407
35°	493	504	472	469	396	335
45°	130	161	161	161	131	92
55°	21	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°	23584.7	23584.7	23584.7	23584.7	23584.7
2.5°	23428.4	23412.1	23421.4	23433.0	23437.6
5°	22820.4	22798.4	22793.8	22841.3	22821.6
7.5°	21594.2	21562.9	21515.5	21623.1	21723.9
10°	19540.0	19505.3	19402.2	19453.2	19535.4
12.5°	16507.4	16395.1	16392.8	16554.9	16532.9
15°	12504.5	12353.9	12437.3	12396.8	12374.8
17.5°	8408.9	8351.0	8462.1	8428.6	8283.8
20°	6049.0	6064.1	6276.0	6169.4	6040.9
22.5°	4414.0	4468.4	4719.7	4445.3	4344.5
25°	2938.8	3050.0	3314.0	2972.4	2878.6
27.5°	1807.5	1858.5	2126.0	1784.4	1733.4
30°	1124.3	1098.9	1225.1	1051.4	979.6
32.5°	737.6	705.2	745.7	669.3	611.4
35°	493.3	503.7	472.4	469.0	396.0
37.5°	308.0	354.3	312.6	333.5	254.7
40°	199.2	257.1	221.2	244.3	187.6
42.5°	163.3	198.0	181.8	193.4	166.7
45°	129.7	161.0	161.0	161.0	130.8
47.5°	71.8	107.7	137.8	110.0	76.4
50°	40.5	54.4	106.5	56.7	42.8
52.5°	27.8	31.3	72.9	32.4	28.9
55°	20.8	22.0	39.4	23.2	22.0
57.5°	16.2	17.4	20.8	17.4	16.2
60°	12.7	12.7	15.1	13.9	12.7
62.5°	9.3	9.3	10.4	9.3	9.3
65°	6.9	6.9	6.9	6.9	6.9
67.5°	3.5	4.6	4.6	4.6	4.6
70°	3.5	2.3	2.3	2.3	3.5
72.5°	2.3	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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