

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: P753811

Luminaire Tested: LD4D80BD010-EU4DR3070959035-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753811
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-EU4DR3070959035-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7412.0 lumens
Efficiency: N/A
Efficacy: 93.9 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

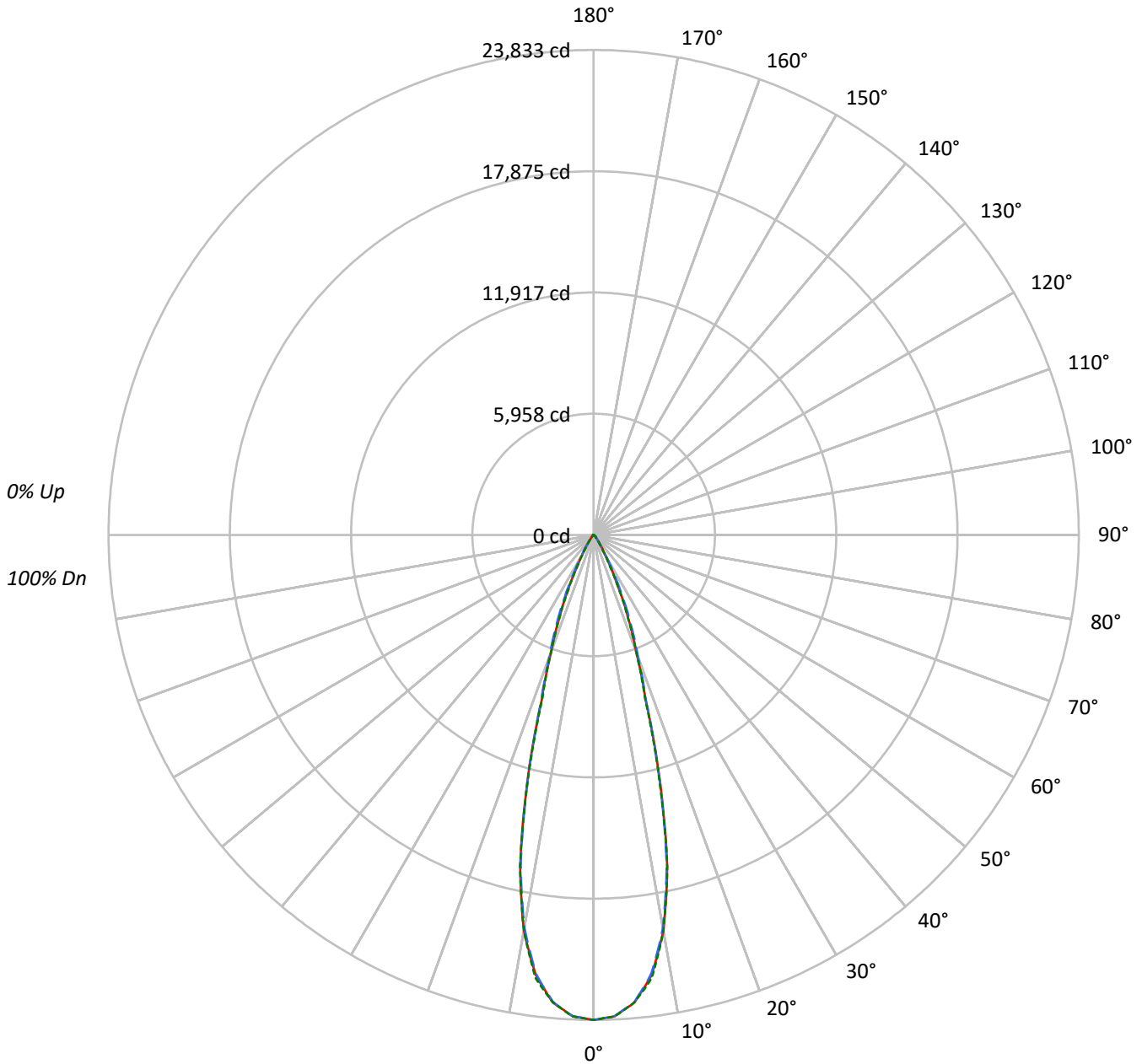
Input Watts (W): 78.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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	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°	1824266	1824266	1824266
5°	1771895	1769828	1771987
10°	1534734	1523907	1534369
15°	1001337	995957	990949
20°	497915	516601	497247
25°	250818	282836	245675
30°	100423	109420	87492
35°	46581	44609	37396
40°	20114	22332	18945
45°	14191	17601	14310
50°	4882	12825	5156
55°	2816	5311	2963
60°	1975	2327	1975
65°	1268	1268	1268
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: 17601 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2095.8	28.3
10°-20°	3375.2	45.5
20°-30°	1458.5	19.7
30°-40°	332.4	4.5
40°-50°	114.1	1.5
50°-60°	27.9	0.4
60°-70°	7.2	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°	6929.5	93.5
0°-40°	7262.0	98.0
0°-60°	7404.0	99.9
0°-90°	7412.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7412.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	23833	23833	23833	23833	23833	
5°	23061	23039	23034	23082	23062	2097
15°	12636	12484	12568	12527	12505	3383
25°	2970	3082	3349	3004	2909	1422
35°	498	509	477	474	400	338
45°	131	163	163	163	132	93
55°	21	22	40	23	22	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°	23833.1	23833.1	23833.1	23833.1	23833.1
2.5°	23675.1	23658.8	23668.1	23679.8	23684.5
5°	23060.8	23038.6	23033.9	23081.9	23062.0
7.5°	21821.7	21790.1	21742.1	21850.9	21952.7
10°	19745.9	19710.8	19606.6	19658.1	19741.2
12.5°	16681.3	16567.8	16565.5	16729.3	16707.0
15°	12636.2	12484.1	12568.3	12527.4	12505.1
17.5°	8497.4	8438.9	8551.3	8517.3	8371.1
20°	6112.7	6127.9	6342.1	6234.4	6104.5
22.5°	4460.5	4515.5	4769.4	4492.1	4390.3
25°	2969.8	3082.1	3348.9	3003.7	2908.9
27.5°	1826.6	1878.1	2148.3	1803.2	1751.7
30°	1136.2	1110.4	1238.0	1062.5	989.9
32.5°	745.4	712.6	753.6	676.3	617.8
35°	498.5	509.0	477.4	473.9	400.2
37.5°	311.3	358.1	315.9	337.0	257.4
40°	201.3	259.8	223.5	246.9	189.6
42.5°	165.0	200.1	183.7	195.4	168.5
45°	131.1	162.6	162.6	162.6	132.2
47.5°	72.5	108.8	139.2	111.2	77.2
50°	41.0	55.0	107.7	57.3	43.3
52.5°	28.1	31.6	73.7	32.8	29.3
55°	21.1	22.2	39.8	23.4	22.2
57.5°	16.4	17.6	21.1	17.6	16.4
60°	12.9	12.9	15.2	14.0	12.9
62.5°	9.4	9.4	10.5	9.4	9.4
65°	7.0	7.0	7.0	7.0	7.0
67.5°	3.5	4.7	4.7	4.7	4.7
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

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— 0°-180° - - 45°-225° - - - - 90°-270°

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