

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: P747573

Luminaire Tested: LD4D40BD010-EU4DR3040509035-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P747573
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: LD4D40BD010-EU4DR3040509035-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4103.1 lumens
Efficiency: N/A
Efficacy: 116.6 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

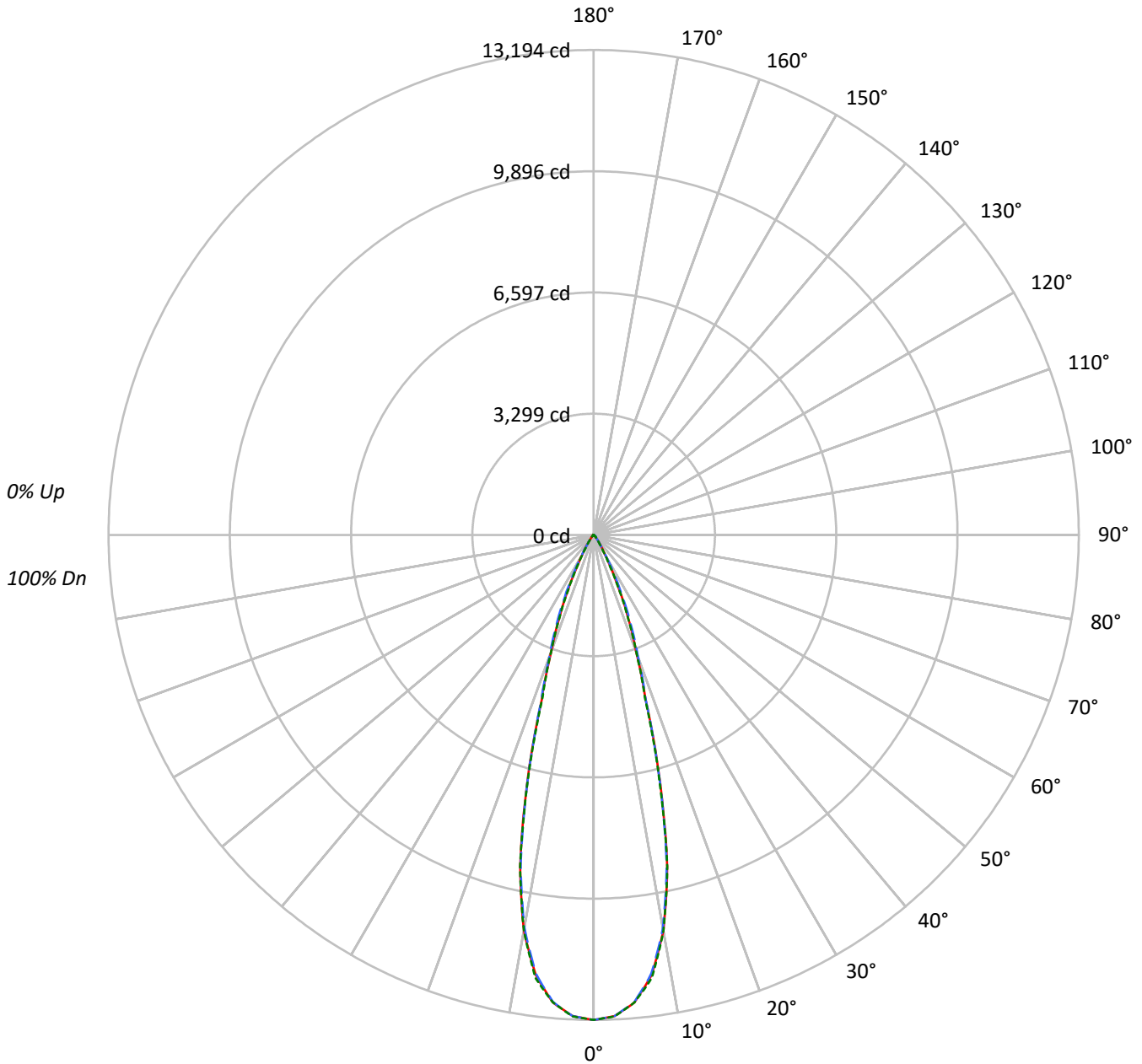
Input Watts (W): 35.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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						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°	1009875	1009875	1009875
5°	980886	979741	980932
10°	849595	843603	849393
15°	554317	551345	548571
20°	275638	285975	275264
25°	138846	156574	136000
30°	55594	60570	48435
35°	25781	24697	20697
40°	11131	12360	10482
45°	7848	9742	7924
50°	2703	7097	2858
55°	1561	2936	1641
60°	1087	1286	1087
65°	706	706	706
70°	425	291	425
75°	0	177	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 9742 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1160.2	28.3
10°-20°	1868.5	45.5
20°-30°	807.4	19.7
30°-40°	184.0	4.5
40°-50°	63.2	1.5
50°-60°	15.4	0.4
60°-70°	4.0	0.1
70°-80°	0.4	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°	3836.0	93.5
0°-40°	4020.1	98.0
0°-60°	4098.7	99.9
0°-90°	4103.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4103.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13194	13194	13194	13194	13194	
5°	12766	12754	12751	12778	12767	1161
15°	6995	6911	6958	6935	6923	1873
25°	1644	1706	1854	1663	1610	787
35°	276	282	264	262	222	187
45°	72	90	90	90	73	51
55°	12	12	22	13	12	11
65°	4	4	4	4	4	4
75°	0	0	1	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13193.5	13193.5	13193.5	13193.5	13193.5
2.5°	13106.1	13097.0	13102.2	13108.7	13111.3
5°	12766.0	12753.7	12751.1	12777.7	12766.6
7.5°	12080.0	12062.5	12036.0	12096.2	12152.6
10°	10930.9	10911.5	10853.8	10882.3	10928.3
12.5°	9234.4	9171.6	9170.3	9261.0	9248.7
15°	6995.1	6910.9	6957.6	6934.9	6922.6
17.5°	4704.0	4671.6	4733.8	4715.0	4634.1
20°	3383.9	3392.3	3510.8	3451.2	3379.3
22.5°	2469.3	2499.7	2640.3	2486.7	2430.4
25°	1644.0	1706.2	1853.9	1662.8	1610.3
27.5°	1011.1	1039.7	1189.3	998.2	969.7
30°	629.0	614.7	685.3	588.2	548.0
32.5°	412.6	394.5	417.2	374.4	342.0
35°	275.9	281.8	264.3	262.3	221.5
37.5°	172.3	198.2	174.9	186.6	142.5
40°	111.4	143.8	123.7	136.7	104.9
42.5°	91.3	110.8	101.7	108.2	93.3
45°	72.5	90.0	90.0	90.0	73.2
47.5°	40.2	60.2	77.1	61.5	42.8
50°	22.7	30.4	59.6	31.7	24.0
52.5°	15.5	17.5	40.8	18.1	16.2
55°	11.7	12.3	22.0	13.0	12.3
57.5°	9.1	9.7	11.7	9.7	9.1
60°	7.1	7.1	8.4	7.8	7.1
62.5°	5.2	5.2	5.8	5.2	5.2
65°	3.9	3.9	3.9	3.9	3.9
67.5°	1.9	2.6	2.6	2.6	2.6
70°	1.9	1.3	1.3	1.3	1.9
72.5°	1.3	0.6	0.6	0.6	0.6
75°	0.0	0.0	0.6	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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