

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: P749128

Luminaire Tested: LD4D50D010-EU4DR3040509035-4LBDP1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749128
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: LD4D50D010-EU4DR3040509035-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-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: 4775.7 lumens
Efficiency: N/A
Efficacy: 101.6 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

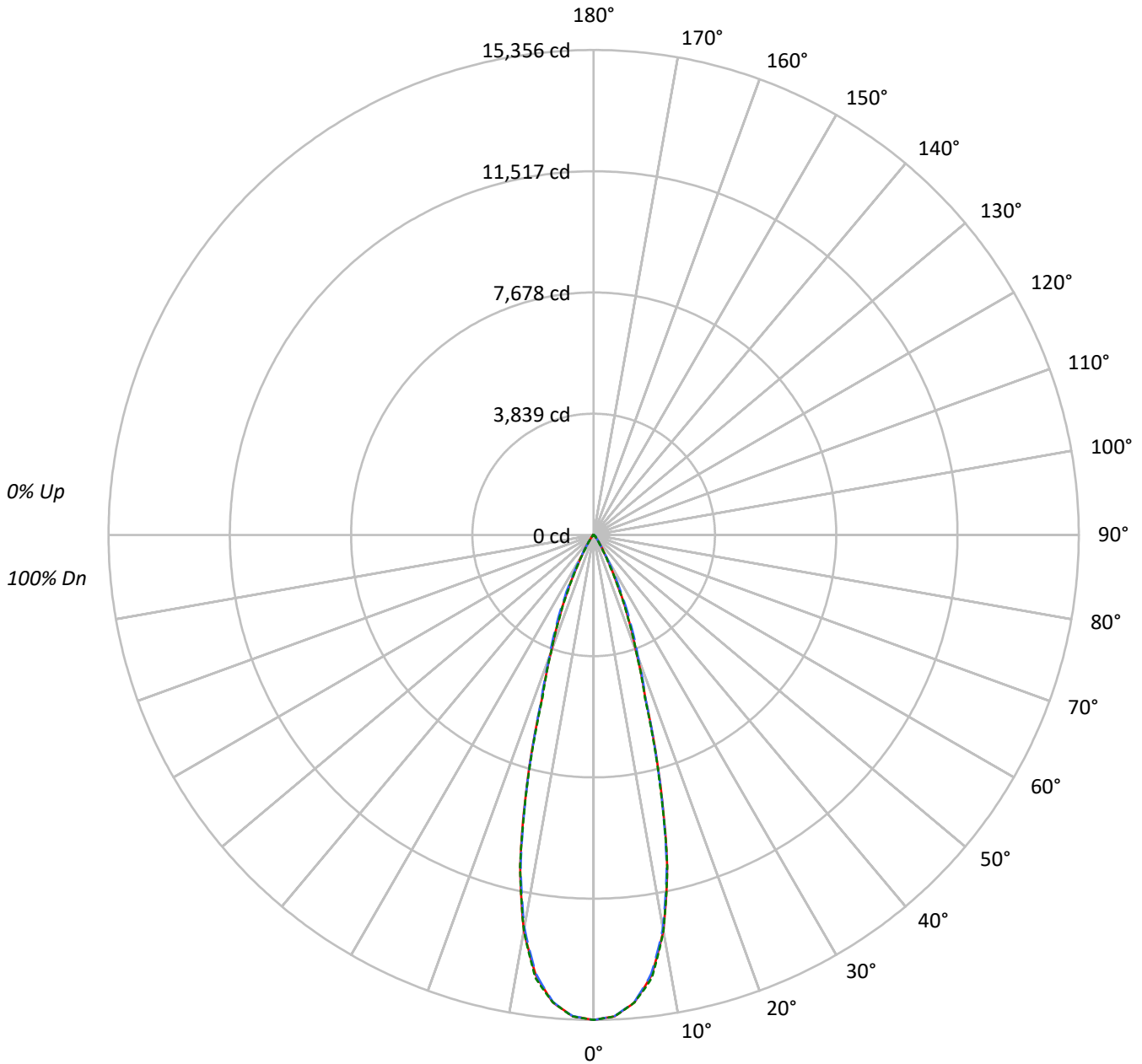
Input Watts (W): 47
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	1175408	1175408	1175408
5°	1141664	1140335	1141726
10°	988862	981882	988621
15°	645177	641714	638489
20°	320822	332853	320390
25°	161607	182240	158296
30°	64706	70504	56372
35°	30014	28743	24089
40°	12960	14389	12200
45°	9136	11344	9223
50°	3144	8264	3322
55°	1815	3416	1908
60°	1271	1500	1271
65°	815	815	815
70°	515	336	515
75°	0	237	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 11344 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1350.3	28.3
10°-20°	2174.7	45.5
20°-30°	939.8	19.7
30°-40°	214.2	4.5
40°-50°	73.5	1.5
50°-60°	18.0	0.4
60°-70°	4.6	0.1
70°-80°	0.5	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°	4464.8	93.5
0°-40°	4679.0	98.0
0°-60°	4770.5	99.9
0°-90°	4775.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4775.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15356	15356	15356	15356	15356	
5°	14858	14844	14841	14872	14859	1351
15°	8142	8044	8098	8072	8057	2180
25°	1914	1986	2158	1935	1874	916
35°	321	328	308	305	258	218
45°	84	105	105	105	85	60
55°	14	14	26	15	14	13
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	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	15356.1	15356.1	15356.1	15356.1	15356.1
2.5°	15254.4	15243.8	15249.8	15257.4	15260.4
5°	14858.5	14844.2	14841.2	14872.1	14859.3
7.5°	14060.1	14039.8	14008.9	14079.0	14144.6
10°	12722.7	12700.0	12632.9	12666.1	12719.6
12.5°	10748.1	10675.0	10673.5	10779.0	10764.7
15°	8141.7	8043.7	8098.0	8071.6	8057.3
17.5°	5475.1	5437.4	5509.8	5487.9	5393.6
20°	3938.6	3948.4	4086.3	4017.0	3933.3
22.5°	2874.0	2909.4	3073.0	2894.4	2828.8
25°	1913.5	1985.9	2157.8	1935.4	1874.3
27.5°	1176.9	1210.1	1384.2	1161.8	1128.6
30°	732.1	715.5	797.7	684.6	637.8
32.5°	480.3	459.1	485.5	435.8	398.1
35°	321.2	328.0	307.6	305.3	257.8
37.5°	200.5	230.7	203.6	217.1	165.9
40°	129.7	167.4	144.0	159.1	122.1
42.5°	106.3	128.9	118.4	125.9	108.6
45°	84.4	104.8	104.8	104.8	85.2
47.5°	46.7	70.1	89.7	71.6	49.8
50°	26.4	35.4	69.4	36.9	27.9
52.5°	18.1	20.4	47.5	21.1	18.8
55°	13.6	14.3	25.6	15.1	14.3
57.5°	10.6	11.3	13.6	11.3	10.6
60°	8.3	8.3	9.8	9.0	8.3
62.5°	6.0	6.0	6.8	6.0	6.0
65°	4.5	4.5	4.5	4.5	4.5
67.5°	2.3	3.0	3.0	3.0	3.0
70°	2.3	1.5	1.5	1.5	2.3
72.5°	1.5	0.8	0.8	0.8	0.8
75°	0.0	0.0	0.8	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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