

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: P746747

Luminaire Tested: LD4D35BD010-EU4DR3020359024-4LBCSSQMW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P746747
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: LD4D35BD010-EU4DR3020359024-4LBCSSQMW
Description: 4 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2442.3 lumens
Efficiency: N/A
Efficacy: 79.3 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

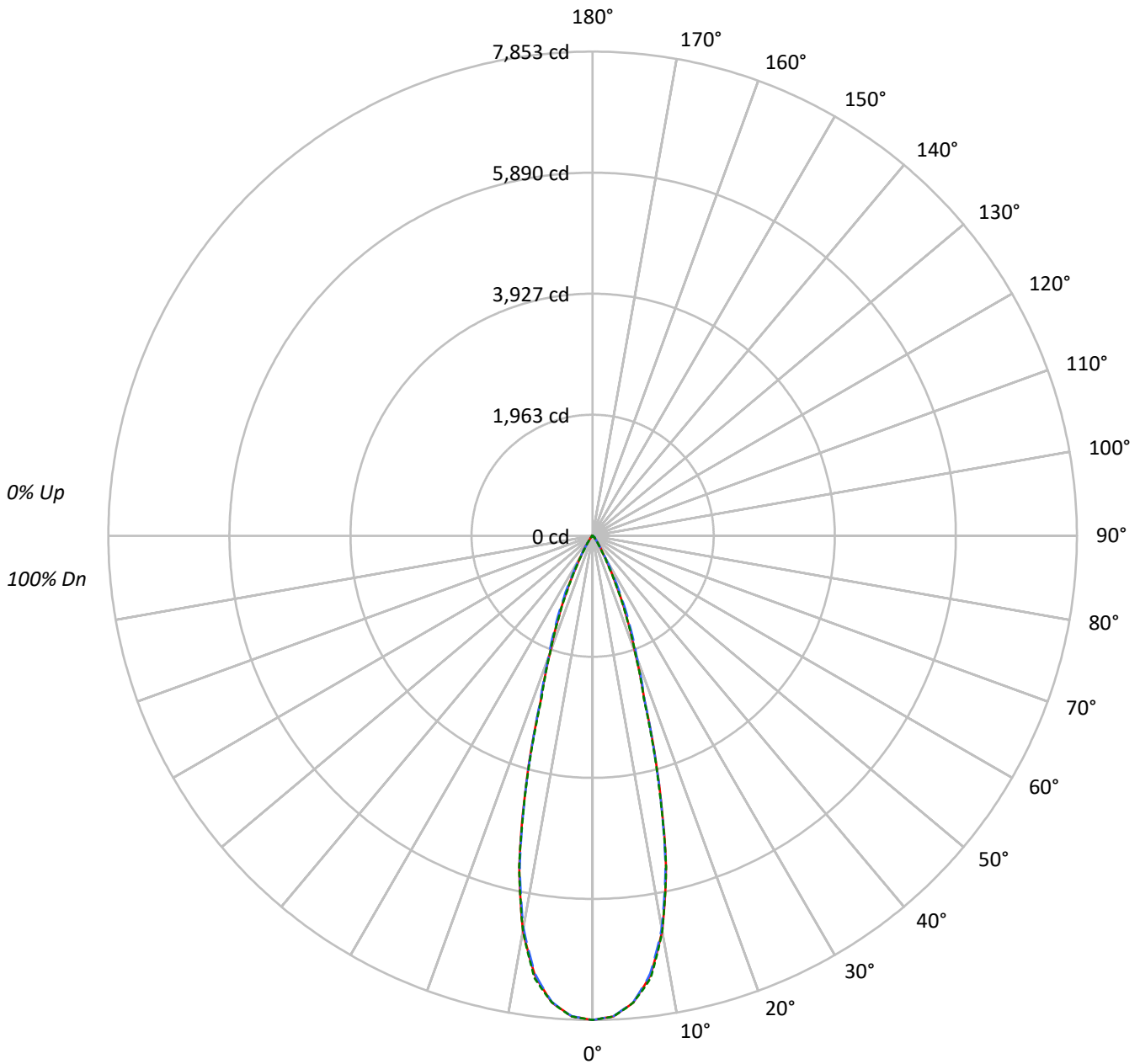
Input Watts (W): 30.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	601103	601103	601103
5°	583852	583168	583883
10°	505705	502137	505580
15°	329946	328171	326523
20°	164068	170218	163848
25°	82649	93198	80951
30°	33091	36052	28831
35°	15343	14698	12325
40°	6625	7354	6245
45°	4676	5802	4720
50°	1608	4227	1703
55°	921	1748	974
60°	643	765	643
65°	417	417	417
70°	269	179	269
75°	0	118	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 5802 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	690.6	28.3
10°-20°	1112.2	45.5
20°-30°	480.6	19.7
30°-40°	109.5	4.5
40°-50°	37.6	1.5
50°-60°	9.2	0.4
60°-70°	2.4	0.1
70°-80°	0.3	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°	2283.3	93.5
0°-40°	2392.9	98.0
0°-60°	2439.7	99.9
0°-90°	2442.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2442.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7853	7853	7853	7853	7853	
5°	7599	7591	7590	7606	7599	691
15°	4164	4114	4141	4128	4120	1115
25°	979	1016	1104	990	958	468
35°	164	168	157	156	132	111
45°	43	54	54	54	44	31
55°	7	7	13	8	7	7
65°	2	2	2	2	2	2
75°	0	0	0	0	0	0
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°	7853.1	7853.1	7853.1	7853.1	7853.1
2.5°	7801.1	7795.7	7798.8	7802.6	7804.2
5°	7598.7	7591.3	7589.8	7605.6	7599.1
7.5°	7190.4	7179.9	7164.1	7200.0	7233.5
10°	6506.4	6494.8	6460.5	6477.5	6504.8
12.5°	5496.6	5459.2	5458.4	5512.4	5505.1
15°	4163.7	4113.6	4141.3	4127.8	4120.5
17.5°	2800.0	2780.7	2817.7	2806.5	2758.3
20°	2014.2	2019.2	2089.7	2054.3	2011.5
22.5°	1469.8	1487.9	1571.6	1480.2	1446.6
25°	978.6	1015.6	1103.5	989.7	958.5
27.5°	601.9	618.8	707.9	594.2	577.2
30°	374.4	365.9	407.9	350.1	326.2
32.5°	245.6	234.8	248.3	222.9	203.6
35°	164.2	167.7	157.3	156.2	131.9
37.5°	102.6	118.0	104.1	111.0	84.8
40°	66.3	85.6	73.6	81.4	62.5
42.5°	54.4	65.9	60.5	64.4	55.5
45°	43.2	53.6	53.6	53.6	43.6
47.5°	23.9	35.9	45.9	36.6	25.4
50°	13.5	18.1	35.5	18.9	14.3
52.5°	9.3	10.4	24.3	10.8	9.6
55°	6.9	7.3	13.1	7.7	7.3
57.5°	5.4	5.8	6.9	5.8	5.4
60°	4.2	4.2	5.0	4.6	4.2
62.5°	3.1	3.1	3.5	3.1	3.1
65°	2.3	2.3	2.3	2.3	2.3
67.5°	1.2	1.5	1.5	1.5	1.5
70°	1.2	0.8	0.8	0.8	1.2
72.5°	0.8	0.4	0.4	0.4	0.4
75°	0.0	0.0	0.4	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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