

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: P747577

Luminaire Tested: LD4D40BD010-EU4DR3040509040-4LBCSSQMB

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P747577
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-EU4DR3040509040-4LBCSSQMB
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3548.6 lumens
Efficiency: N/A
Efficacy: 100.8 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

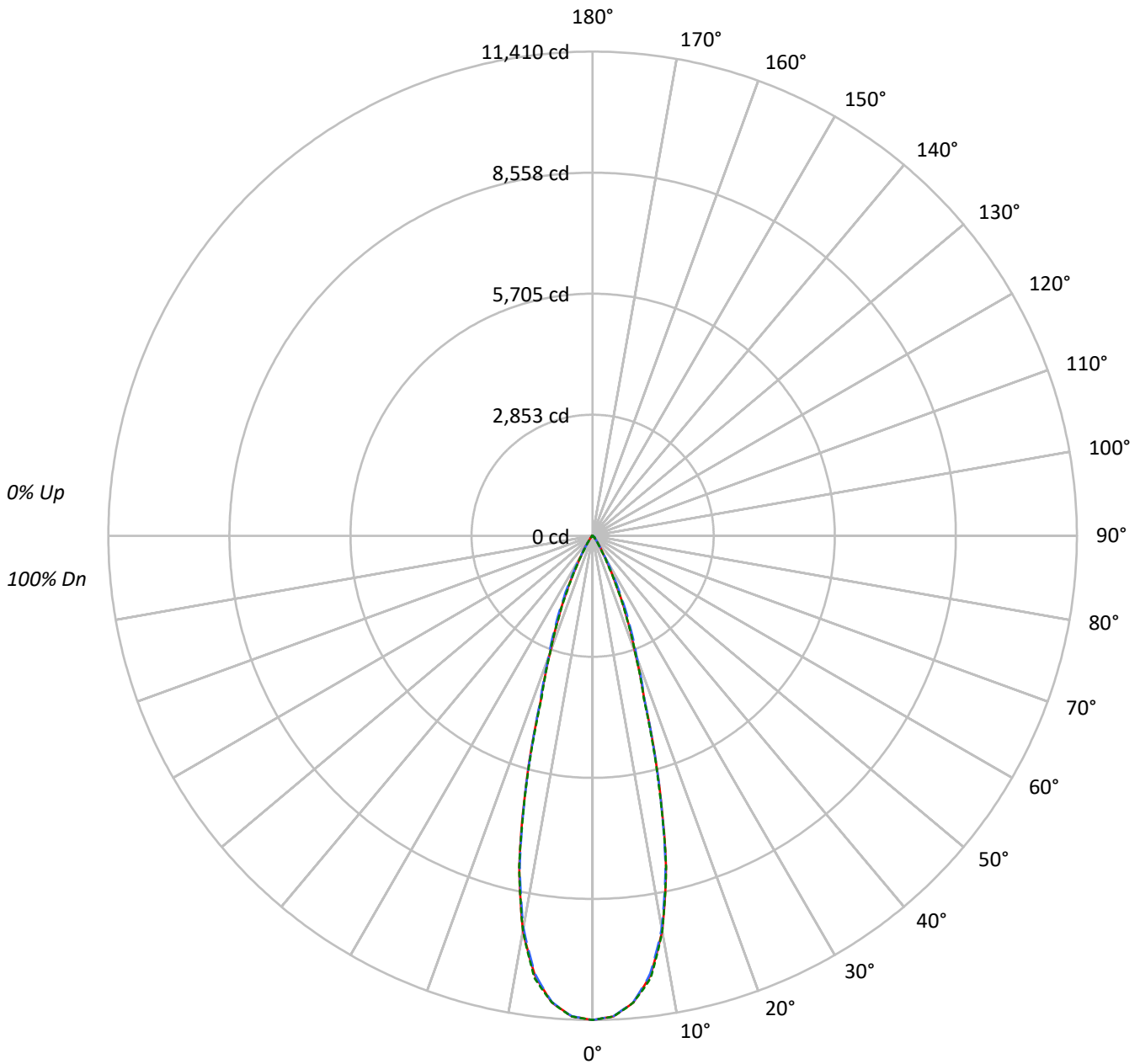
Input Watts (W): 35.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	873383	873383	873383
5°	848313	847322	848352
10°	734766	729589	734595
15°	479400	476824	474423
20°	238380	247324	238063
25°	120080	135409	117622
30°	48081	52386	41886
35°	22295	21361	17904
40°	9632	10691	9073
45°	6787	8433	6852
50°	2334	6133	2465
55°	1348	2536	1415
60°	949	1118	949
65°	616	616	616
70°	380	246	380
75°	0	177	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 8433 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1003.4	28.3
10°-20°	1615.9	45.5
20°-30°	698.3	19.7
30°-40°	159.2	4.5
40°-50°	54.7	1.5
50°-60°	13.3	0.4
60°-70°	3.5	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°	3317.6	93.5
0°-40°	3476.7	98.0
0°-60°	3544.7	99.9
0°-90°	3548.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3548.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11410	11410	11410	11410	11410	
5°	11041	11030	11028	11051	11041	1004
15°	6050	5977	6017	5998	5987	1620
25°	1422	1476	1603	1438	1393	681
35°	239	244	229	227	192	162
45°	63	78	78	78	63	45
55°	10	11	19	11	11	10
65°	3	3	3	3	3	3
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°	11410.3	11410.3	11410.3	11410.3	11410.3
2.5°	11334.7	11326.9	11331.3	11336.9	11339.2
5°	11040.6	11029.9	11027.7	11050.7	11041.1
7.5°	10447.3	10432.2	10409.2	10461.3	10510.1
10°	9453.5	9436.7	9386.9	9411.5	9451.3
12.5°	7986.3	7932.0	7930.9	8009.3	7998.7
15°	6049.7	5976.9	6017.2	5997.6	5986.9
17.5°	4068.2	4040.2	4094.0	4077.8	4007.7
20°	2926.5	2933.8	3036.3	2984.8	2922.6
22.5°	2135.5	2161.8	2283.4	2150.6	2101.9
25°	1421.8	1475.6	1603.3	1438.1	1392.7
27.5°	874.5	899.1	1028.5	863.3	838.6
30°	544.0	531.6	592.7	508.7	473.9
32.5°	356.9	341.2	360.8	323.8	295.8
35°	238.6	243.7	228.6	226.9	191.6
37.5°	149.0	171.4	151.3	161.3	123.2
40°	96.4	124.4	107.0	118.2	90.8
42.5°	79.0	95.8	88.0	93.6	80.7
45°	62.7	77.9	77.9	77.9	63.3
47.5°	34.7	52.1	66.7	53.2	37.0
50°	19.6	26.3	51.5	27.5	20.7
52.5°	13.4	15.1	35.3	15.7	14.0
55°	10.1	10.6	19.0	11.2	10.6
57.5°	7.8	8.4	10.1	8.4	7.8
60°	6.2	6.2	7.3	6.7	6.2
62.5°	4.5	4.5	5.0	4.5	4.5
65°	3.4	3.4	3.4	3.4	3.4
67.5°	1.7	2.2	2.2	2.2	2.2
70°	1.7	1.1	1.1	1.1	1.7
72.5°	1.1	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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