

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: P749360

Luminaire Tested: LD4D50D010-EU4DR4540509035-4LBCSSQMW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749360
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D50D010-EU4DR4540509035-4LBCSSQMW
Description: 4 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 45° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

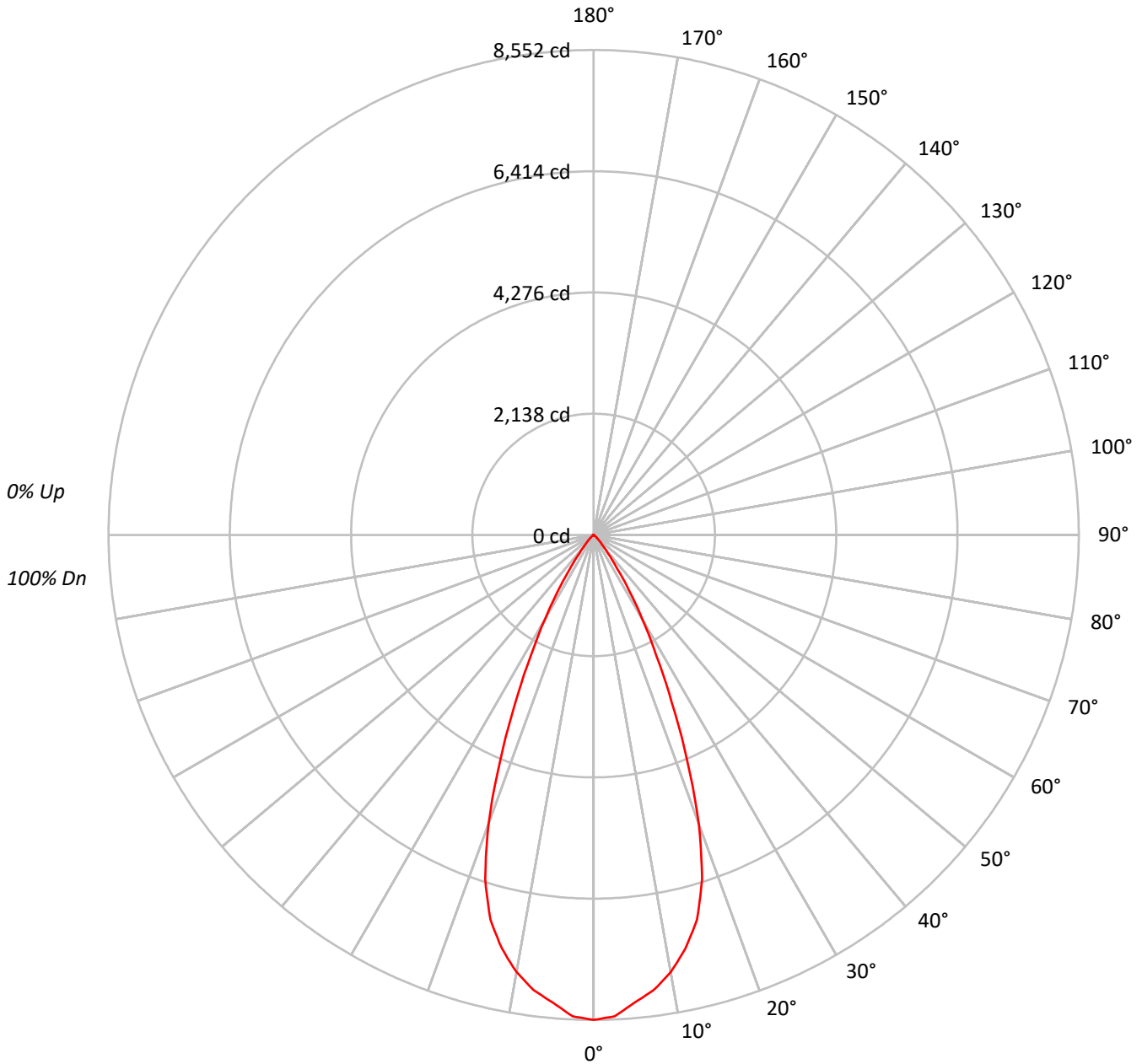
Lumens per Lamp: N/A
Luminaire Lumens: 4838.2 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Spacing Criteria (0/90/45): 0.75 / 0.75 / 0.69
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 47
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	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	98	98	97	95	95	93	91	90	85															
	1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	98	98	97	95	95	93	91	90	87	85	85	81	81	77	73	69														
	2	109	105	102	99	107	103	100	98	100	98	95	97	95	93	95	93	91	90	88	87	84	82	81	77	73	71	69	66	63															
	3	105	99	95	91	103	98	94	91	95	92	89	93	90	88	91	89	87	85	85	81	79	78	74	71	69	66	63	60																
	4	100	94	89	85	99	93	88	85	91	87	84	89	86	83	87	84	82	81	79	83	80	78	77	73	71	69	66	63	60															
	5	96	89	84	80	95	88	83	80	86	82	79	85	81	79	83	80	78	77	75	80	77	74	73	71	69	66	63	60																
	6	92	85	80	76	91	84	79	76	83	78	75	81	77	75	80	77	74	73	71	77	73	71	69	66	63	60																		
	7	89	81	75	72	87	80	75	72	79	74	71	78	74	71	77	73	71	69	66	63	60																							
	8	85	77	72	68	84	76	71	68	75	71	68	74	70	67	73	70	67	66	63	60																								
	9	82	73	68	65	81	73	68	65	72	68	65	71	67	64	71	67	64	63	60																									
	10	79	70	65	62	78	70	65	62	69	65	62	68	64	61	68	64	61	60																										

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	934354
5°	907751
10°	868476
15°	794837
20°	630583
25°	393675
30°	216989
35°	97436
40°	38367
45°	18079
50°	8567
55°	4477
60°	2207
65°	517
70°	224
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 18079 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	777.7	16.1
10°-20°	1913.9	39.6
20°-30°	1515.6	31.3
30°-40°	504.7	10.4
40°-50°	100.1	2.1
50°-60°	22.7	0.5
60°-70°	3.3	0.1
70°-80°	0.1	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°	4207.2	87.0
0°-40°	4711.9	97.4
0°-60°	4834.8	99.9
0°-90°	4838.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4838.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8552	
5°	8276	778
15°	7027	1914
25°	3266	1516
35°	730	505
45°	117	100
55°	24	23
65°	2	3
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	8551.6
2.5°	8495.8
5°	8276.5
7.5°	8095.6
10°	7827.9
12.5°	7471.4
15°	7026.8
17.5°	6358.2
20°	5423.3
22.5°	4309.4
25°	3265.5
27.5°	2391.1
30°	1719.9
32.5°	1169.7
35°	730.5
37.5°	433.2
40°	269.0
42.5°	176.9
45°	117.0
47.5°	75.3
50°	50.4
52.5°	33.6
55°	23.5
57.5°	15.5
60°	10.1
62.5°	5.4
65°	2.0
67.5°	0.7
70°	0.7
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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