

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: P749305

Luminaire Tested: LD4D50D010-EU4DR4040509040-4LBSQW1MW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P749305  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-28)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/30/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D50D010-EU4DR4040509040-4LBSQW1MW  
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 40° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4844.5 lumens  
Efficiency: N/A  
Efficacy: 103.1 lumens/watt  
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.6  
Luminous Opening: Circular (Dia: 0.35' x H: 0')  
CIE Type: Direct

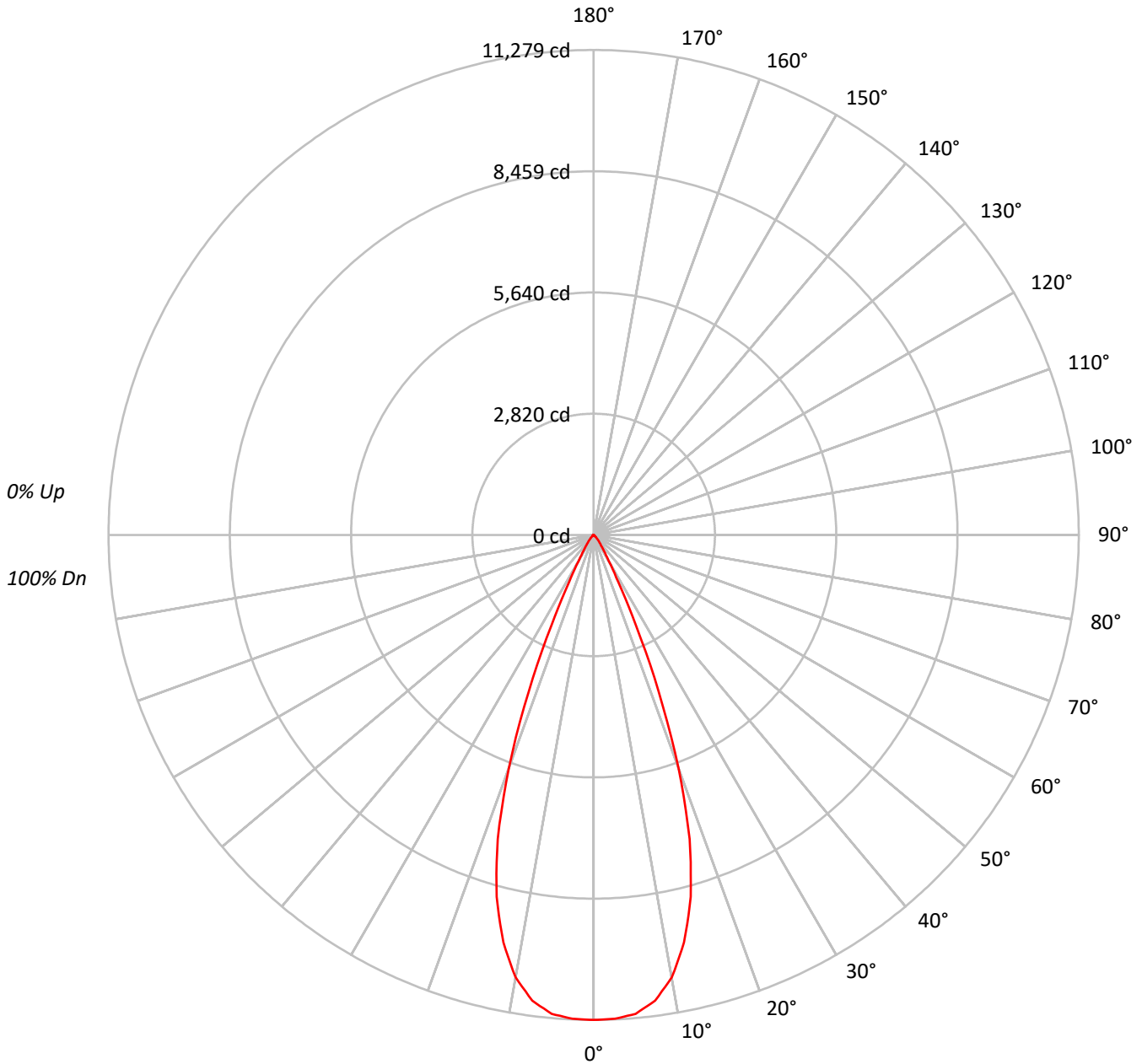
Input Watts (W): 47  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									20									20
RC	80									50									30									10									0									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	99	98	97	96	95	94	93	92																	
	1	115	112	110	108	112	110	108	107	106	105	103	103	101	100	99	98	97	96	95	94	93	92	91	90	89	88	87	86																	
	2	110	106	103	100	108	105	102	99	102	99	97	99	97	95	96	95	93	92	91	90	89	88	87	86	85	84	83	82																	
	3	106	101	97	94	104	100	96	93	97	94	92	95	93	90	93	91	89	88	87	86	85	84	83	82	81	80	79	78																	
	4	102	97	92	89	101	95	91	88	93	90	87	92	89	86	90	87	85	84	83	82	81	80	79	78	77	76	75	74																	
	5	99	92	88	84	97	91	87	84	90	86	83	88	85	83	87	84	82	81	80	79	78	77	76	75	74	73	72	71																	
	6	95	88	84	80	94	88	83	80	86	82	80	85	82	79	84	81	79	78	77	76	75	74	73	72	71	70	69	68																	
	7	92	85	80	77	91	84	80	77	83	79	76	82	79	76	81	78	76	75	74	73	72	71	70	69	68	67	66	65																	
	8	89	82	77	74	88	81	77	74	80	76	73	79	76	73	78	75	73	72	71	70	69	68	67	66	65	64	63	62																	
	9	86	79	74	71	85	78	74	71	77	73	71	76	73	70	76	72	70	69	68	67	66	65	64	63	62	61	60	59																	
	10	83	76	71	68	82	75	71	68	75	71	68	74	70	68	73	70	68	67	66	65	64	63	62	61	60	59	58	57																	

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	1232385
5°	1226388
10°	1159211
15°	985470
20°	671673
25°	280244
30°	88113
35°	40962
40°	22650
45°	10384
50°	5048
55°	2762
60°	1442
65°	517
70°	224
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 10384 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1044.1	21.6
10°-20°	2339.1	48.3
20°-30°	1170.8	24.2
30°-40°	214.6	4.4
40°-50°	59.2	1.2
50°-60°	13.9	0.3
60°-70°	2.7	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°	4554.0	94.0
0°-40°	4768.6	98.4
0°-60°	4841.8	99.9
0°-90°	4844.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4844.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	11279	
5°	11182	###
15°	8712	2339
25°	2325	1171
35°	307	215
45°	67	59
55°	14	14
65°	2	3
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	11279.3
2.5°	11262.8
5°	11181.7
7.5°	10923.4
10°	10448.4
12.5°	9707.8
15°	8712.1
17.5°	7417.4
20°	5776.7
22.5°	3938.3
25°	2324.6
27.5°	1228.9
30°	698.4
32.5°	451.4
35°	307.1
37.5°	219.4
40°	158.8
42.5°	108.7
45°	67.2
47.5°	42.8
50°	29.7
52.5°	21.1
55°	14.5
57.5°	9.2
60°	6.6
62.5°	4.0
65°	2.0
67.5°	1.3
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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(END OF REPORT)