

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: P747538

Luminaire Tested: LD4D40BD010-EU4DR3040509027-4LBCSSQMB

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P747538  
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-EU4DR3040509027-4LBCSSQMB  
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

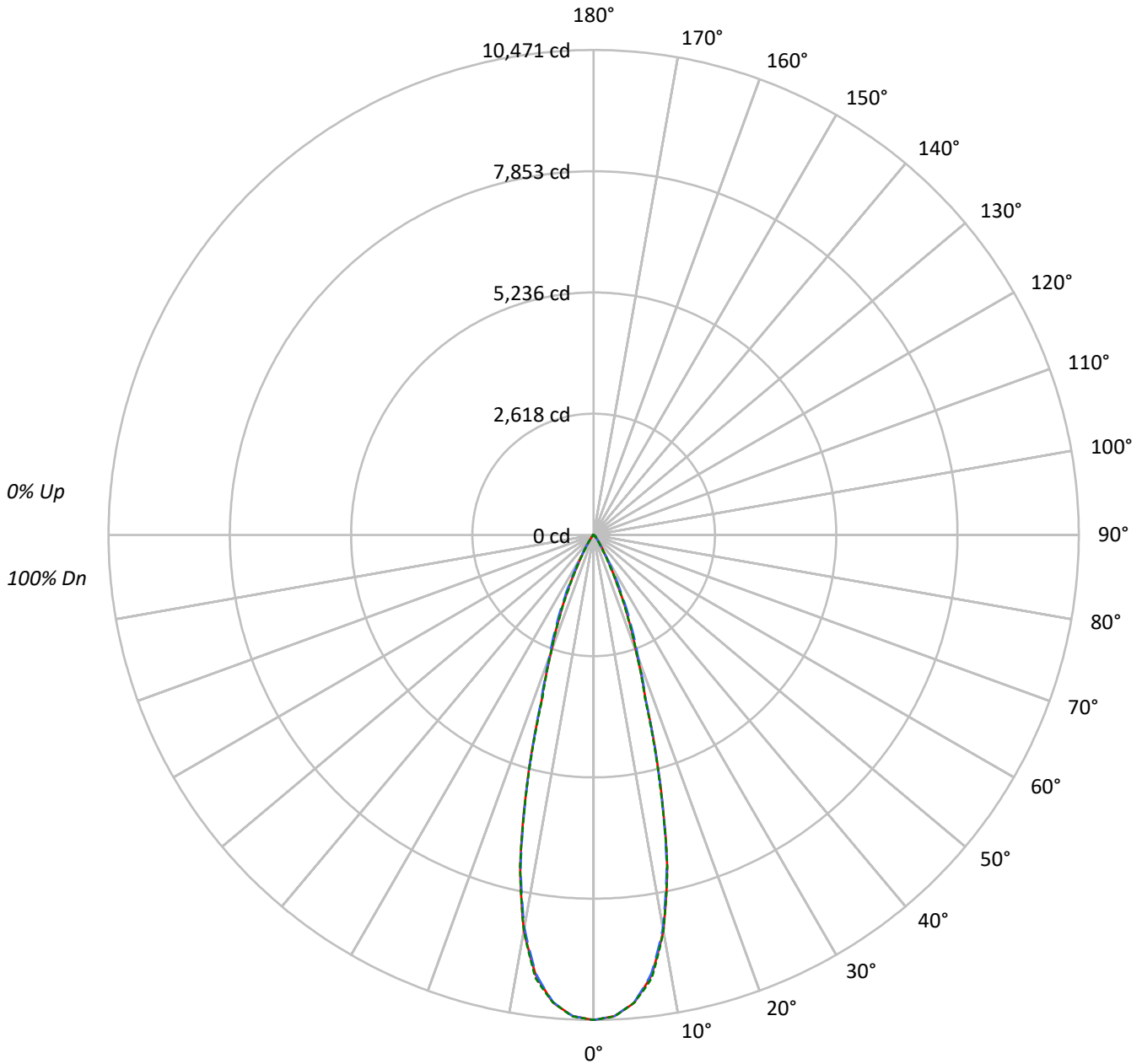
Lumens per Lamp: N/A  
Luminaire Lumens: 3256.3 lumens  
Efficiency: N/A  
Efficacy: 92.5 lumens/watt  
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49  
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')  
CIE Type: Direct

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

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

	0°	45°	90°
0°	801455	801455	801455
5°	778454	777540	778492
10°	674257	669501	674094
15°	439921	437559	435356
20°	218749	226960	218456
25°	110190	124261	107935
30°	44122	48072	38439
35°	20464	19595	16427
40°	8833	9812	8323
45°	6235	7740	6289
50°	2143	5633	2263
55°	1241	2335	1308
60°	873	1026	873
65°	561	561	561
70°	336	224	336
75°	0	148	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 7740 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	920.7	28.3
10°-20°	1482.9	45.5
20°-30°	640.8	19.7
30°-40°	146.0	4.5
40°-50°	50.2	1.5
50°-60°	12.3	0.4
60°-70°	3.2	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°	3044.4	93.5
0°-40°	3190.4	98.0
0°-60°	3252.8	99.9
0°-90°	3256.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3256.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	10471	10471	10471	10471	10471	
5°	10131	10122	10120	10141	10132	921
15°	5552	5485	5522	5504	5494	1486
25°	1305	1354	1471	1320	1278	625
35°	219	224	210	208	176	149
45°	58	72	72	72	58	41
55°	9	10	18	10	10	9
65°	3	3	3	3	3	3
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°	10470.6	10470.6	10470.6	10470.6	10470.6
2.5°	10401.2	10394.1	10398.2	10403.3	10405.4
5°	10131.4	10121.6	10119.5	10140.6	10131.9
7.5°	9587.0	9573.1	9552.0	9599.8	9644.5
10°	8675.0	8659.6	8613.8	8636.4	8672.9
12.5°	7328.6	7278.8	7277.7	7349.7	7339.9
15°	5551.5	5484.7	5521.7	5503.7	5493.9
17.5°	3733.2	3707.5	3756.8	3741.9	3677.7
20°	2685.5	2692.2	2786.3	2739.0	2681.9
22.5°	1959.6	1983.8	2095.4	1973.5	1928.8
25°	1304.7	1354.1	1471.3	1319.6	1278.0
27.5°	802.5	825.1	943.8	792.2	769.6
30°	499.2	487.9	543.9	466.8	434.9
32.5°	327.5	313.1	331.1	297.1	271.4
35°	219.0	223.6	209.7	208.2	175.8
37.5°	136.7	157.3	138.8	148.1	113.1
40°	88.4	114.1	98.2	108.5	83.3
42.5°	72.5	87.9	80.7	85.9	74.0
45°	57.6	71.5	71.5	71.5	58.1
47.5°	31.9	47.8	61.2	48.8	33.9
50°	18.0	24.2	47.3	25.2	19.0
52.5°	12.3	13.9	32.4	14.4	12.9
55°	9.3	9.8	17.5	10.3	9.8
57.5°	7.2	7.7	9.3	7.7	7.2
60°	5.7	5.7	6.7	6.2	5.7
62.5°	4.1	4.1	4.6	4.1	4.1
65°	3.1	3.1	3.1	3.1	3.1
67.5°	1.5	2.1	2.1	2.1	2.1
70°	1.5	1.0	1.0	1.0	1.5
72.5°	1.0	0.5	0.5	0.5	0.5
75°	0.0	0.0	0.5	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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