

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



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: P750684

Luminaire Tested: LD4D60D010-EU4DR3055659035-4LBCSSQMB

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P750684  
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: LD4D60D010-EU4DR3055659035-4LBCSSQMB  
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

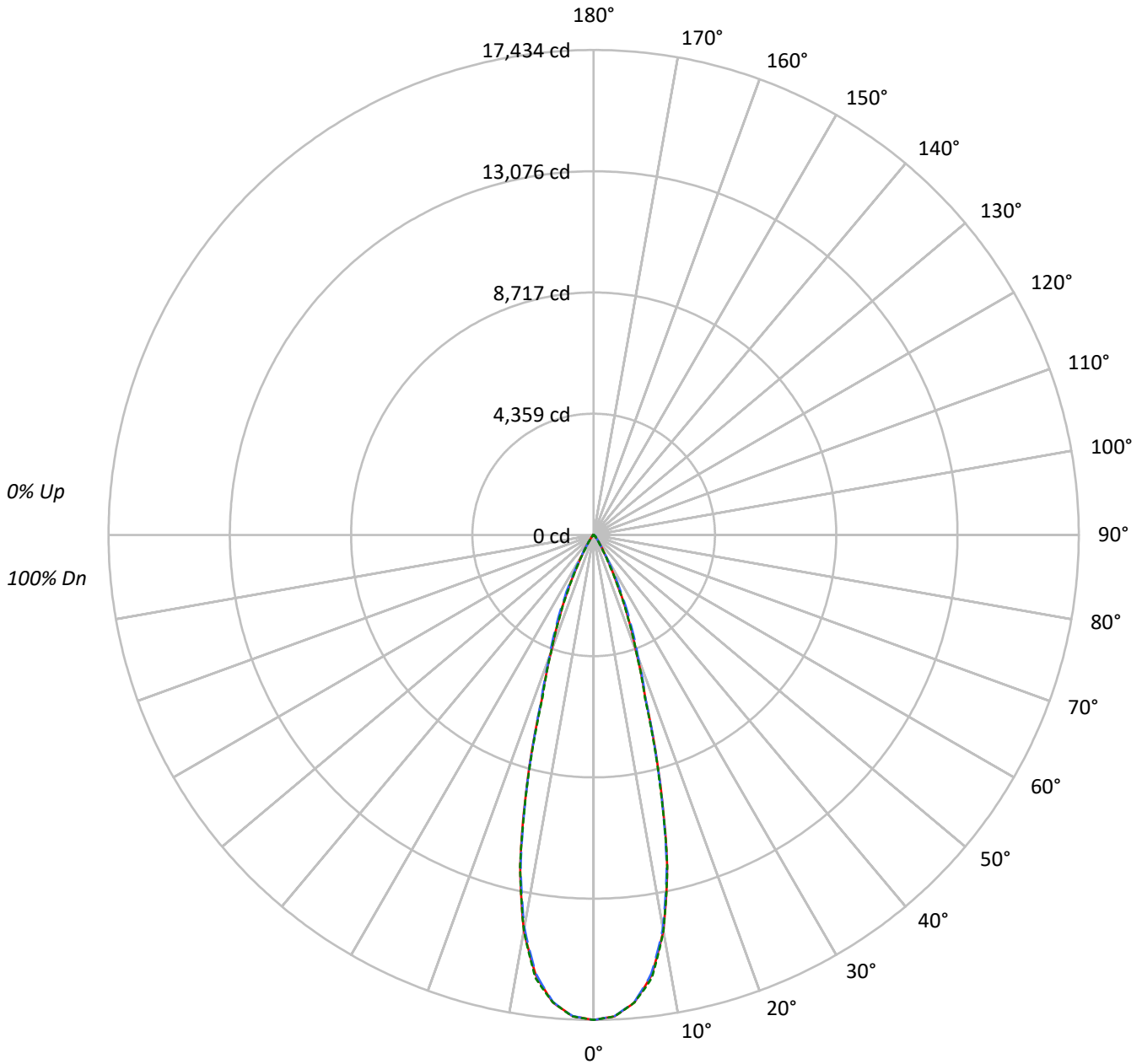
Lumens per Lamp: N/A  
Luminaire Lumens: 5421.9 lumens  
Efficiency: N/A  
Efficacy: 84.2 lumens/watt  
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49  
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')  
CIE Type: Direct

Input Watts (W): 64.4  
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	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°	1334473	1334473	1334473
5°	1296158	1294652	1296227
10°	1122672	1114759	1122407
15°	732488	728557	724888
20°	364230	377898	363741
25°	183473	206901	179715
30°	73457	80041	63999
35°	34069	32630	27351
40°	14708	16337	13859
45°	10381	12882	10468
50°	3572	9372	3775
55°	2055	3883	2175
60°	1439	1699	1439
65°	924	924	924
70°	582	380	582
75°	0	266	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 12882 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1533.1	28.3
10°-20°	2469.0	45.5
20°-30°	1066.9	19.7
30°-40°	243.2	4.5
40°-50°	83.5	1.5
50°-60°	20.4	0.4
60°-70°	5.3	0.1
70°-80°	0.6	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°	5069.0	93.5
0°-40°	5312.2	98.0
0°-60°	5416.1	99.9
0°-90°	5421.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5421.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	17434	17434	17434	17434	17434	
5°	16869	16853	16850	16885	16870	1534
15°	9244	9132	9194	9164	9148	2475
25°	2172	2255	2450	2197	2128	1040
35°	365	372	349	347	293	247
45°	96	119	119	119	97	68
55°	15	16	29	17	16	15
65°	5	5	5	5	5	5
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°	17434.2	17434.2	17434.2	17434.2	17434.2
2.5°	17318.6	17306.6	17313.5	17322.0	17325.5
5°	16869.2	16853.0	16849.6	16884.7	16870.1
7.5°	15962.8	15939.7	15904.6	15984.2	16058.7
10°	14444.3	14418.6	14342.5	14380.1	14440.9
12.5°	12202.6	12119.5	12117.8	12237.6	12221.4
15°	9243.5	9132.2	9193.9	9163.9	9147.6
17.5°	6216.0	6173.2	6255.4	6230.5	6123.5
20°	4471.5	4482.7	4639.3	4560.6	4465.5
22.5°	3262.9	3303.1	3488.9	3286.0	3211.6
25°	2172.4	2254.6	2449.8	2197.2	2127.9
27.5°	1336.2	1373.8	1571.5	1319.0	1281.4
30°	831.1	812.3	905.6	777.2	724.1
32.5°	545.2	521.3	551.2	494.7	451.9
35°	364.6	372.3	349.2	346.7	292.7
37.5°	227.7	261.9	231.1	246.5	188.3
40°	147.2	190.0	163.5	180.6	138.7
42.5°	120.7	146.4	134.4	142.9	123.3
45°	95.9	119.0	119.0	119.0	96.7
47.5°	53.1	79.6	101.9	81.3	56.5
50°	30.0	40.2	78.7	41.9	31.7
52.5°	20.5	23.1	53.9	24.0	21.4
55°	15.4	16.3	29.1	17.1	16.3
57.5°	12.0	12.8	15.4	12.8	12.0
60°	9.4	9.4	11.1	10.3	9.4
62.5°	6.8	6.8	7.7	6.8	6.8
65°	5.1	5.1	5.1	5.1	5.1
67.5°	2.6	3.4	3.4	3.4	3.4
70°	2.6	1.7	1.7	1.7	2.6
72.5°	1.7	0.9	0.9	0.9	0.9
75°	0.0	0.0	0.9	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

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Scaled Data Report







— 0°-180°    - - 45°-225°    - - - - 90°-270°

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