

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: P750686

Luminaire Tested: LD4D60D010-EU4DR3055659035-4LBCSSQMW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P750686  
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-EU4DR3055659035-4LBCSSQMW  
Description: 4 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

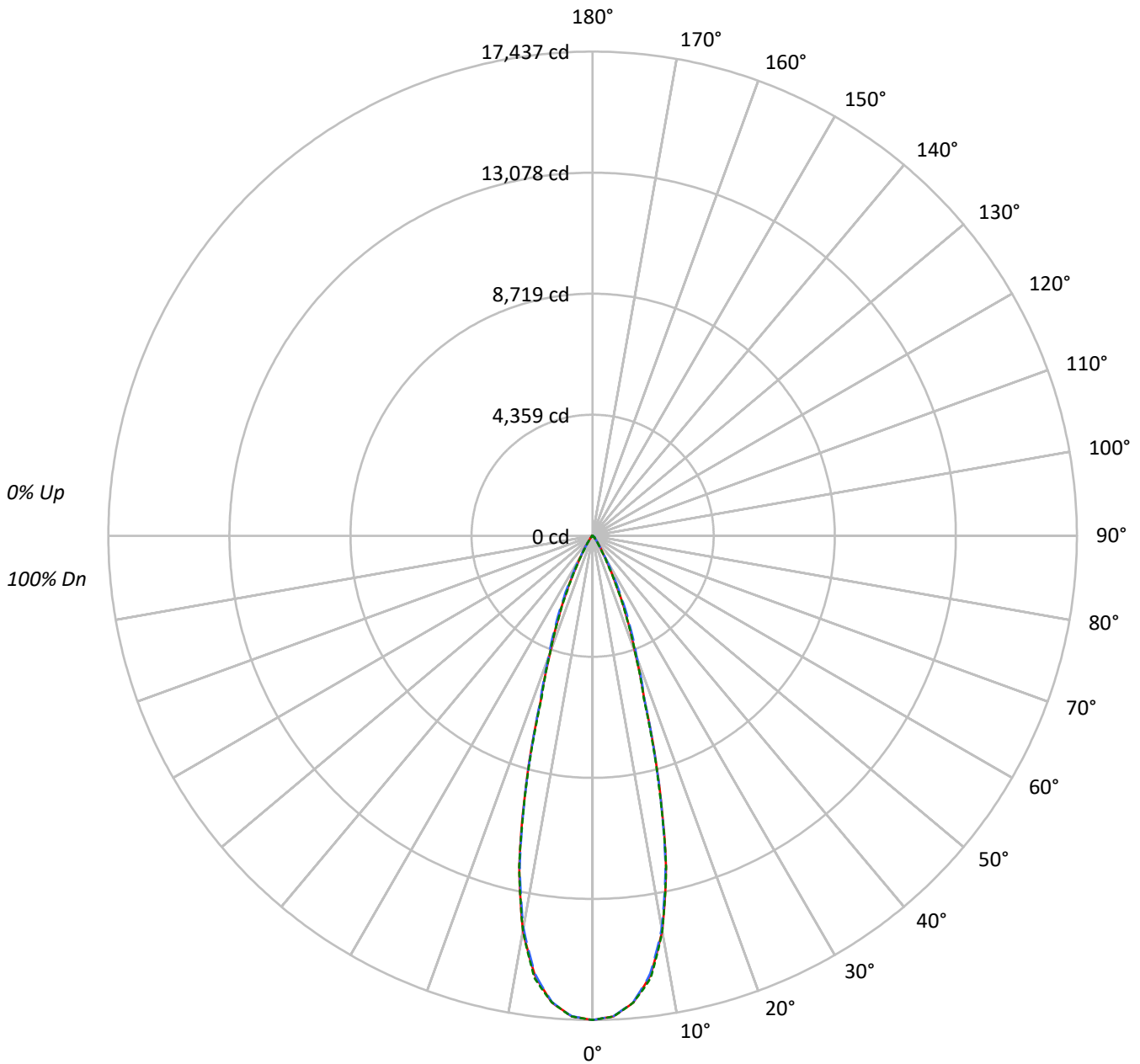
Lumens per Lamp: N/A  
Luminaire Lumens: 5422.8 lumens  
Efficiency: N/A  
Efficacy: 84.2 lumens/watt  
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49  
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')  
CIE Type: Direct

Input Watts (W): 64.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	1334680	1334680	1334680
5°	1296366	1294852	1296435
10°	1122850	1114930	1122586
15°	732607	728668	725007
20°	364287	377955	363798
25°	183507	206926	179740
30°	73474	80050	64017
35°	34078	32639	27360
40°	14708	16337	13859
45°	10381	12882	10468
50°	3572	9384	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°	1533.3	28.3
10°-20°	2469.4	45.5
20°-30°	1067.1	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°	5069.8	93.5
0°-40°	5313.0	98.0
0°-60°	5416.9	99.9
0°-90°	5422.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5422.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	17437	17437	17437	17437	17437	
5°	16872	16856	16852	16887	16873	1535
15°	9245	9134	9195	9165	9149	2475
25°	2173	2255	2450	2198	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°	17436.9	17436.9	17436.9	17436.9	17436.9
2.5°	17321.4	17309.4	17316.2	17324.8	17328.2
5°	16871.9	16855.6	16852.2	16887.3	16872.8
7.5°	15965.3	15942.2	15907.1	15986.7	16061.2
10°	14446.6	14420.9	14344.7	14382.4	14443.2
12.5°	12204.5	12121.4	12119.7	12239.6	12223.3
15°	9245.0	9133.7	9195.3	9165.3	9149.1
17.5°	6217.0	6174.1	6256.3	6231.5	6124.5
20°	4472.2	4483.4	4640.0	4561.3	4466.2
22.5°	3263.4	3303.7	3489.4	3286.5	3212.1
25°	2172.8	2255.0	2450.1	2197.6	2128.2
27.5°	1336.4	1374.0	1571.8	1319.2	1281.6
30°	831.3	812.4	905.7	777.3	724.3
32.5°	545.3	521.4	551.3	494.8	452.0
35°	364.7	372.4	349.3	346.7	292.8
37.5°	227.7	262.0	231.1	246.6	188.3
40°	147.2	190.1	163.5	180.6	138.7
42.5°	120.7	146.4	134.4	143.0	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	78.8	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



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Scaled Data Report







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

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