

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: P747549

Luminaire Tested: LD4D40BD010-EU4DR3040509027-4LBSQW1B

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P747549  
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-EU4DR3040509027-4LBSQW1B  
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

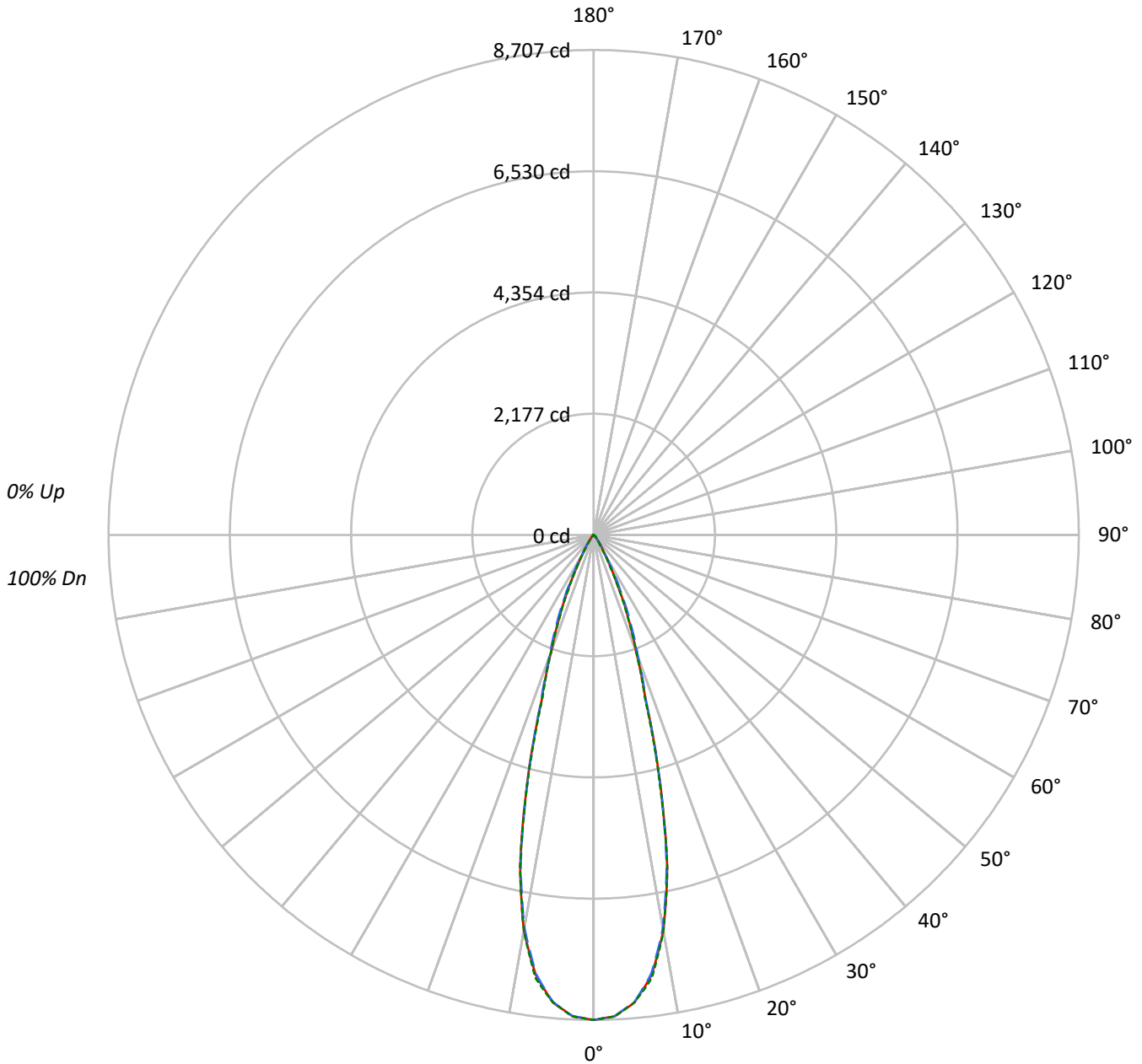
Lumens per Lamp: N/A  
Luminaire Lumens: 2707.9 lumens  
Efficiency: N/A  
Efficacy: 76.9 lumens/watt  
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49  
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')  
CIE Type: Direct

Input Watts (W): 35.2  
Input Voltage (V): NR  
Input Current (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	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°	666471	666471	666471
5°	647341	646588	647372
10°	560695	556738	560562
15°	365828	363863	362032
20°	181907	188733	181663
25°	91635	103332	89752
30°	36688	39976	31969
35°	17016	16296	13661
40°	7344	8163	6924
45°	5185	6430	5228
50°	1786	4680	1881
55°	1028	1935	1081
60°	720	857	720
65°	471	471	471
70°	291	201	291
75°	0	118	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 6430 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	765.7	28.3
10°-20°	1233.1	45.5
20°-30°	532.9	19.7
30°-40°	121.4	4.5
40°-50°	41.7	1.5
50°-60°	10.2	0.4
60°-70°	2.6	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°	2531.6	93.5
0°-40°	2653.1	98.0
0°-60°	2704.9	99.9
0°-90°	2707.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2707.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8707	8707	8707	8707	8707	
5°	8425	8417	8415	8433	8425	766
15°	4616	4561	4592	4577	4569	1236
25°	1085	1126	1224	1097	1063	519
35°	182	186	174	173	146	124
45°	48	59	59	59	48	34
55°	8	8	14	8	8	8
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°	8707.1	8707.1	8707.1	8707.1	8707.1
2.5°	8649.4	8643.4	8646.9	8651.1	8652.8
5°	8425.0	8416.9	8415.2	8432.7	8425.4
7.5°	7972.3	7960.7	7943.2	7983.0	8020.2
10°	7213.9	7201.1	7163.0	7181.8	7212.2
12.5°	6094.3	6052.8	6052.0	6111.8	6103.7
15°	4616.5	4560.9	4591.7	4576.7	4568.6
17.5°	3104.4	3083.1	3124.1	3111.7	3058.3
20°	2233.2	2238.8	2317.0	2277.7	2230.2
22.5°	1629.6	1649.7	1742.5	1641.1	1603.9
25°	1085.0	1126.0	1223.5	1097.4	1062.7
27.5°	667.3	686.1	784.9	658.8	640.0
30°	415.1	405.7	452.3	388.2	361.7
32.5°	272.3	260.3	275.3	247.1	225.7
35°	182.1	186.0	174.4	173.1	146.2
37.5°	113.7	130.8	115.4	123.1	94.0
40°	73.5	94.9	81.7	90.2	69.3
42.5°	60.3	73.1	67.1	71.4	61.6
45°	47.9	59.4	59.4	59.4	48.3
47.5°	26.5	39.8	50.9	40.6	28.2
50°	15.0	20.1	39.3	20.9	15.8
52.5°	10.3	11.5	26.9	12.0	10.7
55°	7.7	8.1	14.5	8.5	8.1
57.5°	6.0	6.4	7.7	6.4	6.0
60°	4.7	4.7	5.6	5.1	4.7
62.5°	3.4	3.4	3.8	3.4	3.4
65°	2.6	2.6	2.6	2.6	2.6
67.5°	1.3	1.7	1.7	1.7	1.7
70°	1.3	0.9	0.9	0.9	1.3
72.5°	0.9	0.4	0.4	0.4	0.4
75°	0.0	0.0	0.4	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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