

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: P747588

Luminaire Tested: LD4D40BD010-EU4DR3040509040-4LBSQW1B

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P747588  
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-EU4DR3040509040-4LBSQW1B  
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

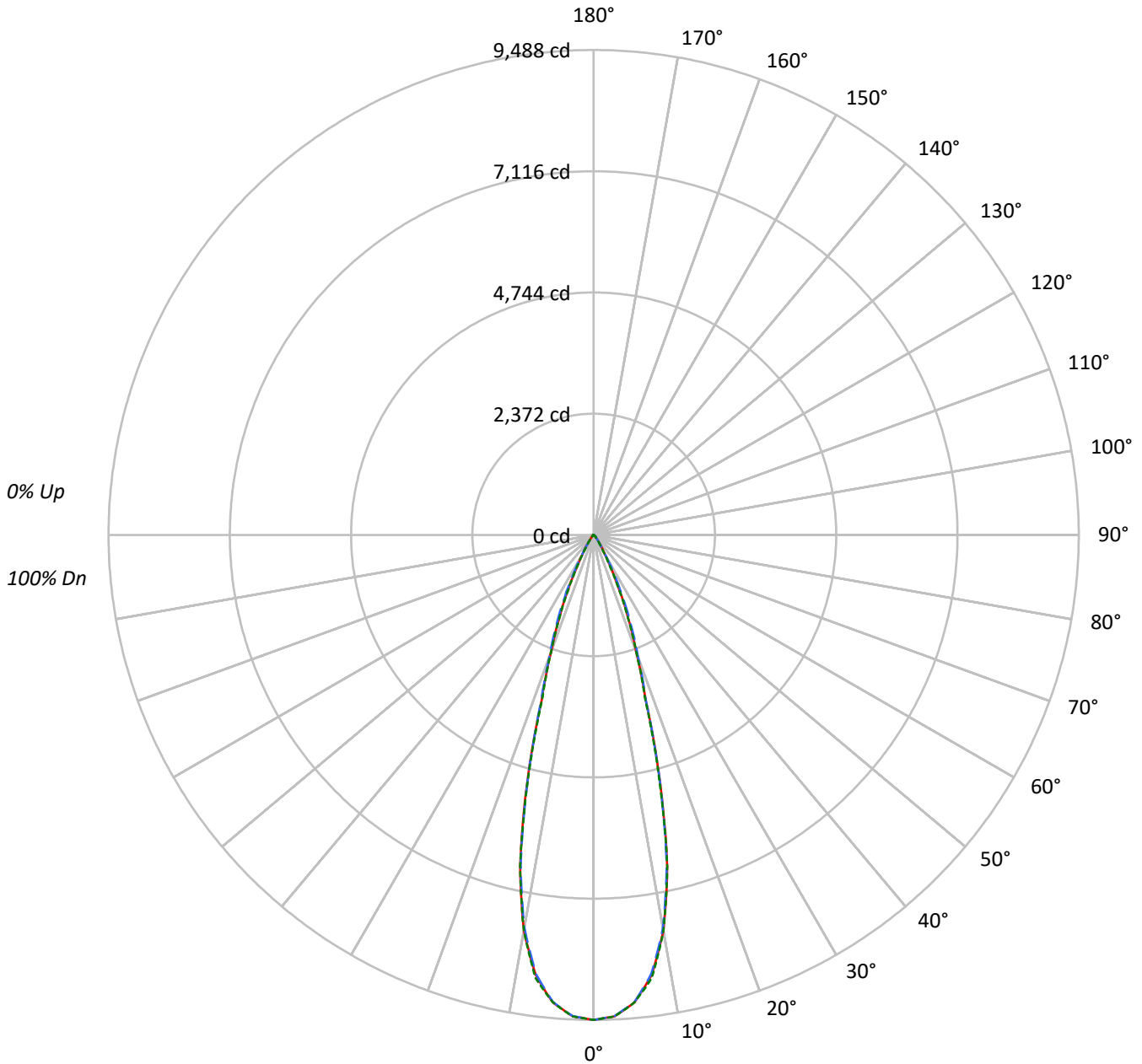
Lumens per Lamp: N/A  
Luminaire Lumens: 2950.9 lumens  
Efficiency: N/A  
Efficacy: 83.8 lumens/watt  
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49  
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')  
CIE Type: Direct

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

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

	0°	45°	90°
0°	726282	726282	726282
5°	705437	704615	705468
10°	611013	606707	610866
15°	398658	396519	394522
20°	198231	205668	197970
25°	99853	112606	97809
30°	39976	43565	34832
35°	18548	17763	14885
40°	8004	8893	7544
45°	5651	7015	5694
50°	1941	5109	2048
55°	1121	2108	1188
60°	781	934	781
65°	507	507	507
70°	313	201	313
75°	0	148	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 7015 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	834.4	28.3
10°-20°	1343.8	45.5
20°-30°	580.7	19.7
30°-40°	132.4	4.5
40°-50°	45.4	1.5
50°-60°	11.1	0.4
60°-70°	2.9	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°	2758.8	93.5
0°-40°	2891.2	98.0
0°-60°	2947.7	99.9
0°-90°	2950.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2950.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9488	9488	9488	9488	9488	
5°	9181	9172	9170	9190	9182	835
15°	5031	4970	5004	4987	4979	1347
25°	1182	1227	1333	1196	1158	566
35°	198	203	190	189	159	135
45°	52	65	65	65	53	37
55°	8	9	16	9	9	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°	9488.5	9488.5	9488.5	9488.5	9488.5
2.5°	9425.7	9419.1	9422.9	9427.5	9429.4
5°	9181.1	9172.2	9170.4	9189.5	9181.5
7.5°	8687.7	8675.2	8656.1	8699.4	8739.9
10°	7861.3	7847.3	7805.9	7826.4	7859.4
12.5°	6641.2	6596.0	6595.1	6660.3	6651.5
15°	5030.8	4970.2	5003.8	4987.4	4978.6
17.5°	3383.0	3359.8	3404.5	3391.0	3332.7
20°	2433.6	2439.7	2524.9	2482.1	2430.4
22.5°	1775.8	1797.7	1898.8	1788.4	1747.9
25°	1182.3	1227.1	1333.3	1195.9	1158.1
27.5°	727.2	747.7	855.3	717.9	697.4
30°	452.3	442.1	492.9	423.0	394.1
32.5°	296.8	283.7	300.0	269.3	246.0
35°	198.5	202.6	190.1	188.7	159.3
37.5°	123.9	142.6	125.8	134.2	102.5
40°	80.1	103.4	89.0	98.3	75.5
42.5°	65.7	79.7	73.1	77.8	67.1
45°	52.2	64.8	64.8	64.8	52.6
47.5°	28.9	43.3	55.4	44.3	30.7
50°	16.3	21.9	42.9	22.8	17.2
52.5°	11.2	12.6	29.3	13.0	11.6
55°	8.4	8.9	15.8	9.3	8.9
57.5°	6.5	7.0	8.4	7.0	6.5
60°	5.1	5.1	6.1	5.6	5.1
62.5°	3.7	3.7	4.2	3.7	3.7
65°	2.8	2.8	2.8	2.8	2.8
67.5°	1.4	1.9	1.9	1.9	1.9
70°	1.4	0.9	0.9	0.9	1.4
72.5°	0.9	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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