

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: P747576

Luminaire Tested: LD4D40BD010-EU4DR3040509035-4LBSQW1MW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P747576  
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-EU4DR3040509035-4LBSQW1MW  
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

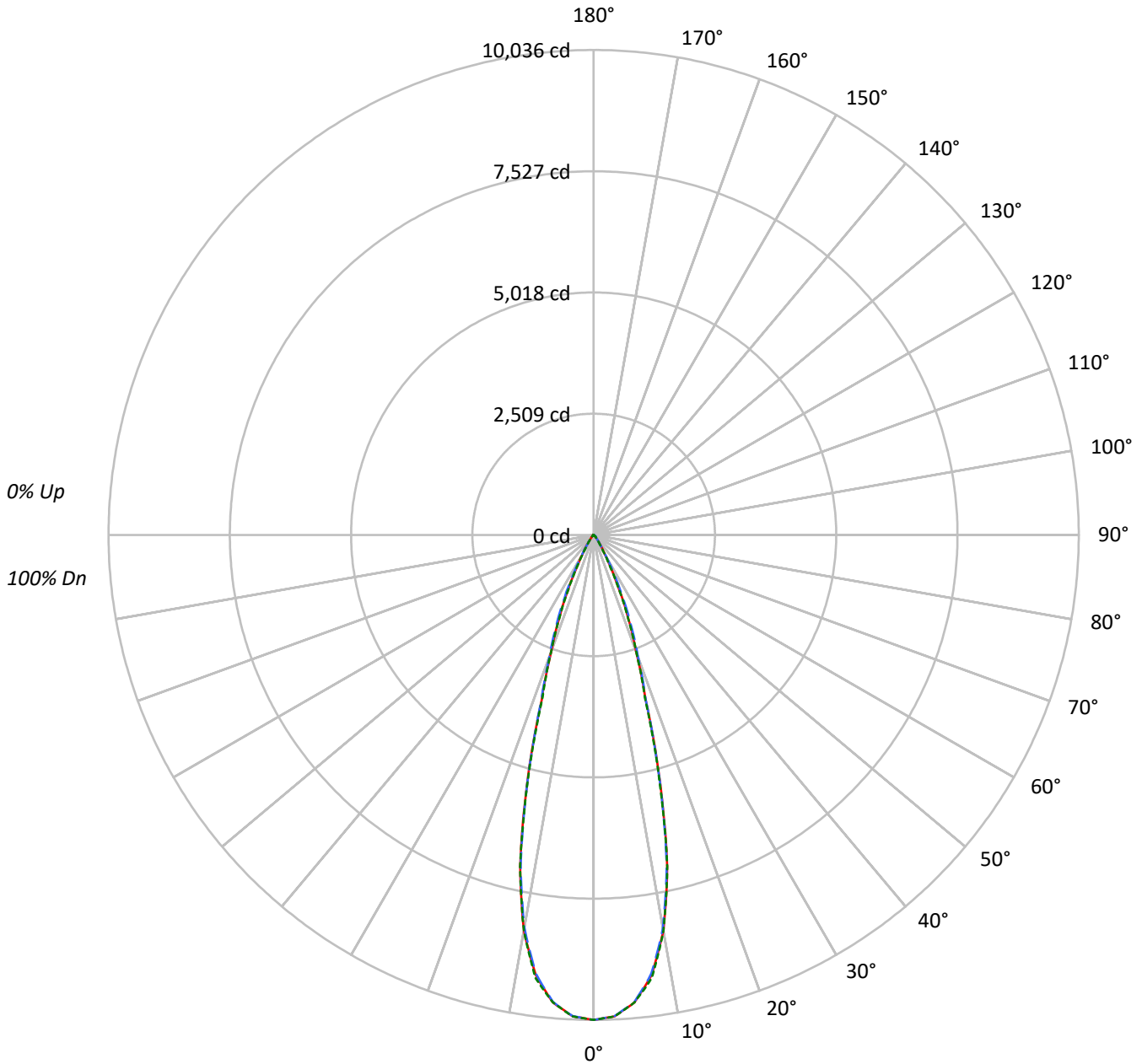
Lumens per Lamp: N/A  
Luminaire Lumens: 3121.1 lumens  
Efficiency: N/A  
Efficacy: 88.7 lumens/watt  
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49  
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')  
CIE Type: Direct

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°	768182	768182	768182
5°	746129	745261	746168
10°	646261	641707	646106
15°	421655	419389	417281
20°	209667	217536	209390
25°	105613	119100	103451
30°	42283	46075	36839
35°	19614	18782	15745
40°	8463	9403	7974
45°	5975	7415	6029
50°	2048	5394	2167
55°	1188	2242	1254
60°	827	980	827
65°	543	543	543
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: 7415 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	882.5	28.3
10°-20°	1421.3	45.5
20°-30°	614.2	19.7
30°-40°	140.0	4.5
40°-50°	48.1	1.5
50°-60°	11.7	0.4
60°-70°	3.1	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°	2918.0	93.5
0°-40°	3058.0	98.0
0°-60°	3117.8	99.9
0°-90°	3121.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3121.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	10036	10036	10036	10036	10036	
5°	9711	9701	9699	9720	9711	883
15°	5321	5257	5292	5275	5266	1425
25°	1250	1298	1410	1265	1225	599
35°	210	214	201	200	168	142
45°	55	68	68	68	56	39
55°	9	9	17	10	9	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°	10035.9	10035.9	10035.9	10035.9	10035.9
2.5°	9969.4	9962.5	9966.4	9971.4	9973.3
5°	9710.7	9701.4	9699.4	9719.6	9711.2
7.5°	9188.9	9175.6	9155.4	9201.2	9244.1
10°	8314.8	8300.0	8256.2	8277.9	8312.8
12.5°	7024.4	6976.6	6975.6	7044.6	7035.2
15°	5321.0	5256.9	5292.4	5275.2	5265.8
17.5°	3578.2	3553.6	3600.9	3586.6	3525.0
20°	2574.0	2580.4	2670.6	2625.3	2570.6
22.5°	1878.3	1901.4	2008.4	1891.6	1848.7
25°	1250.5	1297.8	1410.2	1264.8	1224.9
27.5°	769.2	790.8	904.7	759.3	737.6
30°	478.4	467.6	521.3	447.4	416.8
32.5°	313.9	300.1	317.3	284.8	260.2
35°	209.9	214.3	201.0	199.6	168.5
37.5°	131.1	150.8	133.0	141.9	108.4
40°	84.7	109.4	94.1	104.0	79.8
42.5°	69.5	84.3	77.4	82.3	71.0
45°	55.2	68.5	68.5	68.5	55.7
47.5°	30.5	45.8	58.6	46.8	32.5
50°	17.2	23.2	45.3	24.1	18.2
52.5°	11.8	13.3	31.0	13.8	12.3
55°	8.9	9.4	16.8	9.9	9.4
57.5°	6.9	7.4	8.9	7.4	6.9
60°	5.4	5.4	6.4	5.9	5.4
62.5°	3.9	3.9	4.4	3.9	3.9
65°	3.0	3.0	3.0	3.0	3.0
67.5°	1.5	2.0	2.0	2.0	2.0
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

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Scaled Data Report







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

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