

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: P746773

Luminaire Tested: LD4D35BD010-EU4DR3020359030-4LBCSSQMW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P746773  
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: LD4D35BD010-EU4DR3020359030-4LBCSSQMW  
Description: 4 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2850.1 lumens  
Efficiency: N/A  
Efficacy: 92.5 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

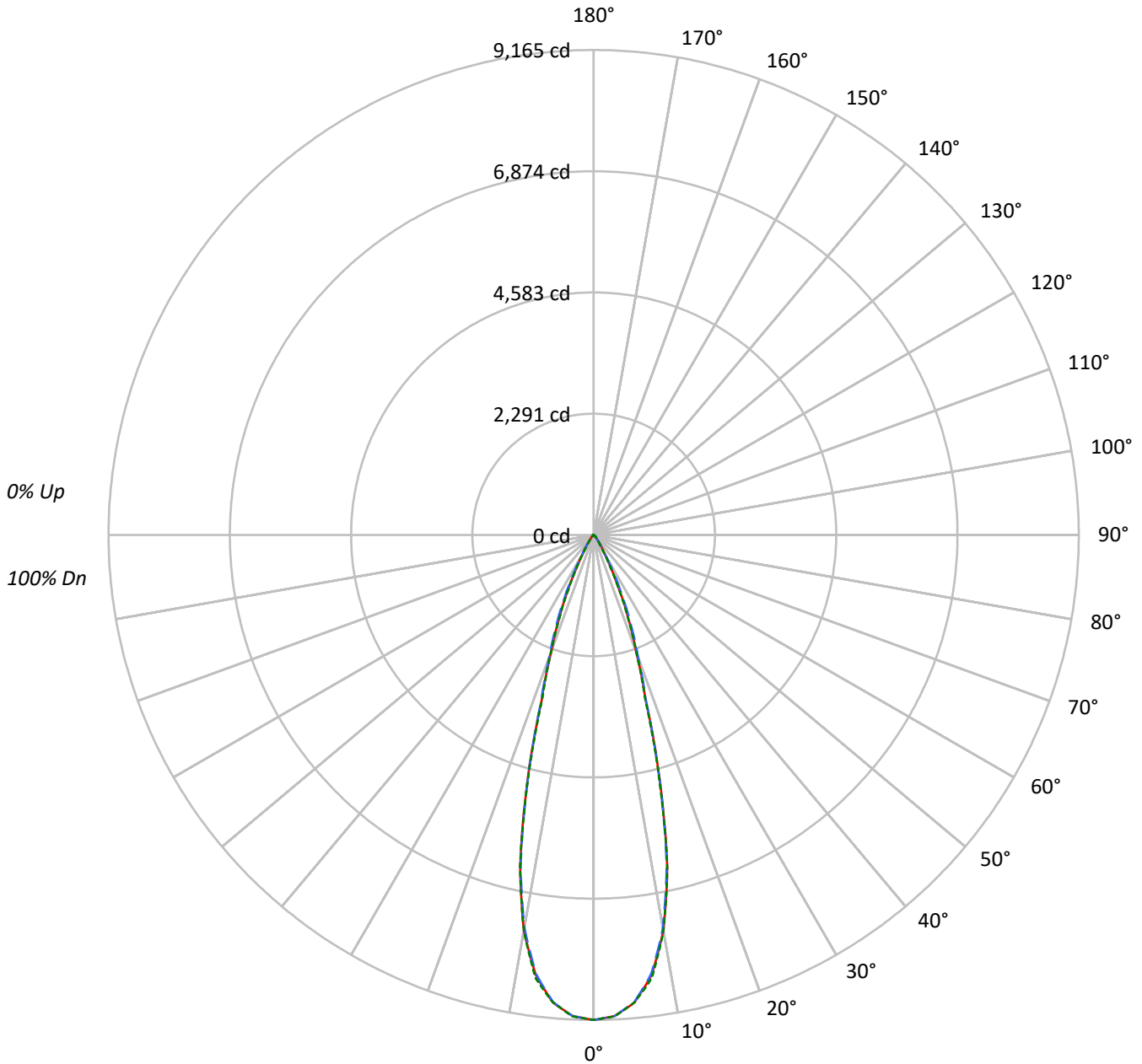
Input Watts (W): 30.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	87	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°	701497	701497	701497
5°	681357	680565	681395
10°	590160	586002	590020
15°	385052	382984	381058
20°	191470	198654	191209
25°	96449	108763	94473
30°	38615	42080	33648
35°	17913	17156	14381
40°	7734	8583	7284
45°	5456	6766	5499
50°	1870	4930	1977
55°	1081	2042	1134
60°	750	888	750
65°	489	489	489
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: 6766 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	805.9	28.3
10°-20°	1297.9	45.5
20°-30°	560.9	19.7
30°-40°	127.8	4.5
40°-50°	43.9	1.5
50°-60°	10.7	0.4
60°-70°	2.8	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°	2664.7	93.5
0°-40°	2792.5	98.0
0°-60°	2847.1	99.9
0°-90°	2850.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2850.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9165	9165	9165	9165	9165	
5°	8868	8859	8857	8876	8868	807
15°	4859	4801	4833	4817	4809	1301
25°	1142	1185	1288	1155	1119	547
35°	192	196	184	182	154	130
45°	50	62	62	62	51	36
55°	8	8	15	9	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°	9164.7	9164.7	9164.7	9164.7	9164.7
2.5°	9104.0	9097.7	9101.3	9105.8	9107.6
5°	8867.7	8859.2	8857.4	8875.8	8868.2
7.5°	8391.2	8379.1	8360.6	8402.5	8441.6
10°	7593.0	7579.5	7539.5	7559.3	7591.2
12.5°	6414.6	6370.9	6370.0	6433.0	6424.5
15°	4859.1	4800.6	4833.0	4817.2	4808.7
17.5°	3267.6	3245.1	3288.3	3275.2	3219.0
20°	2350.6	2356.4	2438.8	2397.4	2347.4
22.5°	1715.2	1736.4	1834.0	1727.4	1688.2
25°	1142.0	1185.2	1287.8	1155.0	1118.6
27.5°	702.4	722.2	826.1	693.4	673.6
30°	436.9	427.0	476.1	408.6	380.7
32.5°	286.6	274.0	289.8	260.1	237.6
35°	191.7	195.7	183.6	182.2	153.9
37.5°	119.7	137.7	121.5	129.6	99.0
40°	77.4	99.9	85.9	94.9	72.9
42.5°	63.4	76.9	70.6	75.1	64.8
45°	50.4	62.5	62.5	62.5	50.8
47.5°	27.9	41.8	53.5	42.7	29.7
50°	15.7	21.1	41.4	22.0	16.6
52.5°	10.8	12.1	28.3	12.6	11.2
55°	8.1	8.5	15.3	9.0	8.5
57.5°	6.3	6.7	8.1	6.7	6.3
60°	4.9	4.9	5.8	5.4	4.9
62.5°	3.6	3.6	4.0	3.6	3.6
65°	2.7	2.7	2.7	2.7	2.7
67.5°	1.3	1.8	1.8	1.8	1.8
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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