

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: P746771

Luminaire Tested: LD4D35BD010-EU4DR3020359030-4LBCSSQMB

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P746771  
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-EU4DR3020359030-4LBCSSQMB  
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2849.7 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

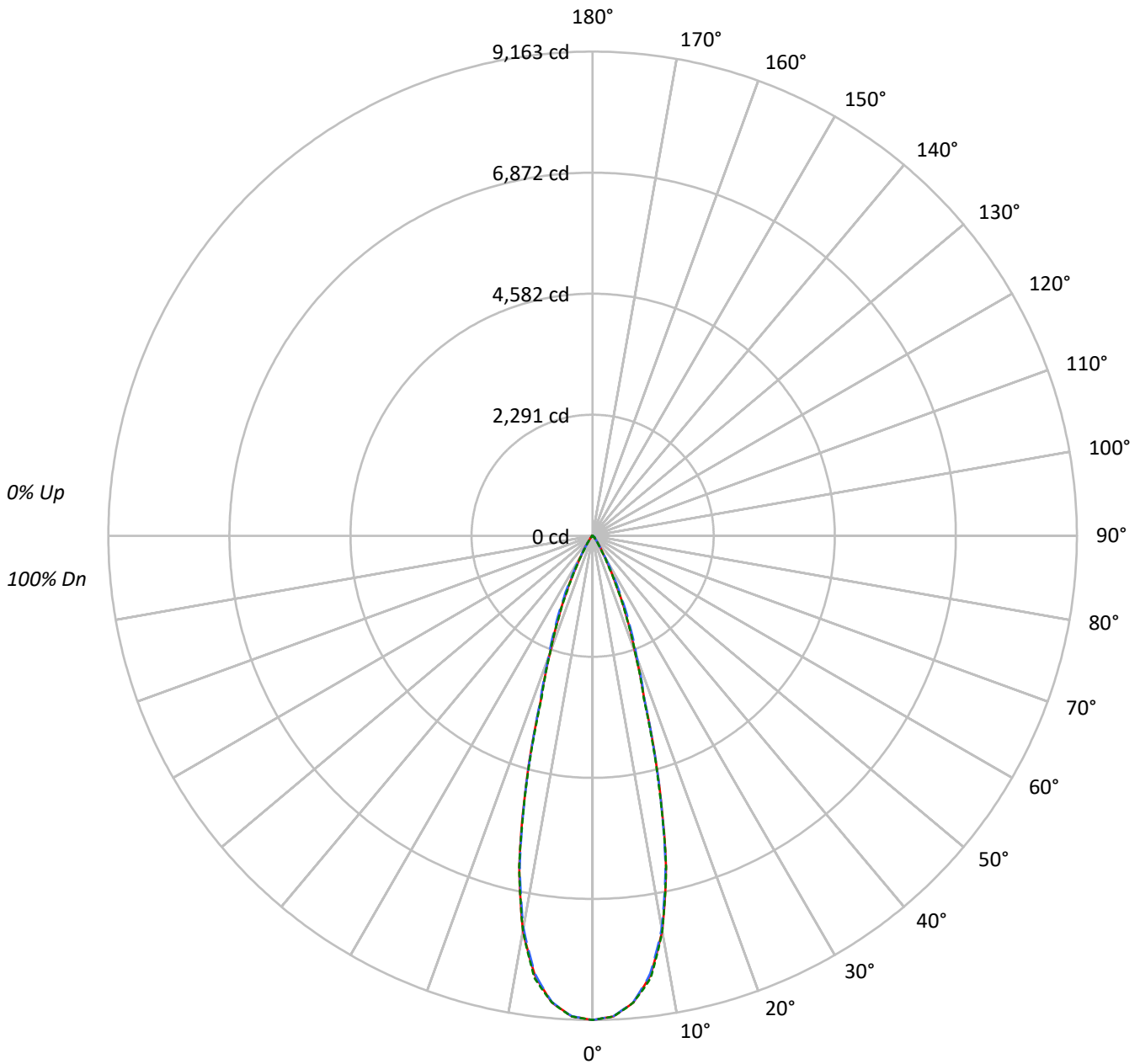
Input Watts (W): 30.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	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	87	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°	701390	701390	701390
5°	681249	680458	681287
10°	590067	585908	589927
15°	384989	382921	380995
20°	191437	198622	191185
25°	96432	108746	94456
30°	38606	42071	33639
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°	805.8	28.3
10°-20°	1297.7	45.5
20°-30°	560.8	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°	2664.2	93.5
0°-40°	2792.1	98.0
0°-60°	2846.6	99.9
0°-90°	2849.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2849.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9163	9163	9163	9163	9163	
5°	8866	8858	8856	8874	8867	806
15°	4858	4800	4832	4816	4808	1301
25°	1142	1185	1288	1155	1118	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°	9163.3	9163.3	9163.3	9163.3	9163.3
2.5°	9102.5	9096.2	9099.8	9104.3	9106.1
5°	8866.3	8857.8	8856.0	8874.4	8866.8
7.5°	8389.9	8377.8	8359.3	8401.2	8440.3
10°	7591.8	7578.3	7538.3	7558.1	7590.0
12.5°	6413.6	6369.9	6369.0	6432.0	6423.5
15°	4858.3	4799.8	4832.2	4816.5	4807.9
17.5°	3267.1	3244.6	3287.8	3274.7	3218.5
20°	2350.2	2356.1	2438.4	2397.0	2347.1
22.5°	1715.0	1736.1	1833.7	1727.1	1688.0
25°	1141.8	1185.0	1287.6	1154.9	1118.4
27.5°	702.3	722.1	826.0	693.3	673.5
30°	436.8	426.9	476.0	408.5	380.6
32.5°	286.6	274.0	289.7	260.0	237.5
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

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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