

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: PORTFOLIO

Report Number: P563803

Luminaire Tested: **LD4C20D010 EX4C20D2W 4LCSQWLI**

Issue Date: 2/18/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P563803  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2105-247-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/18/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD4C20D010 EX4C20D2W 4LCSQWLI  
Description: 4 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 4LCSQW TRIM WITH LI FINISH, DIM TO WARM  
Light Source: -  
Ballast/Driver: -

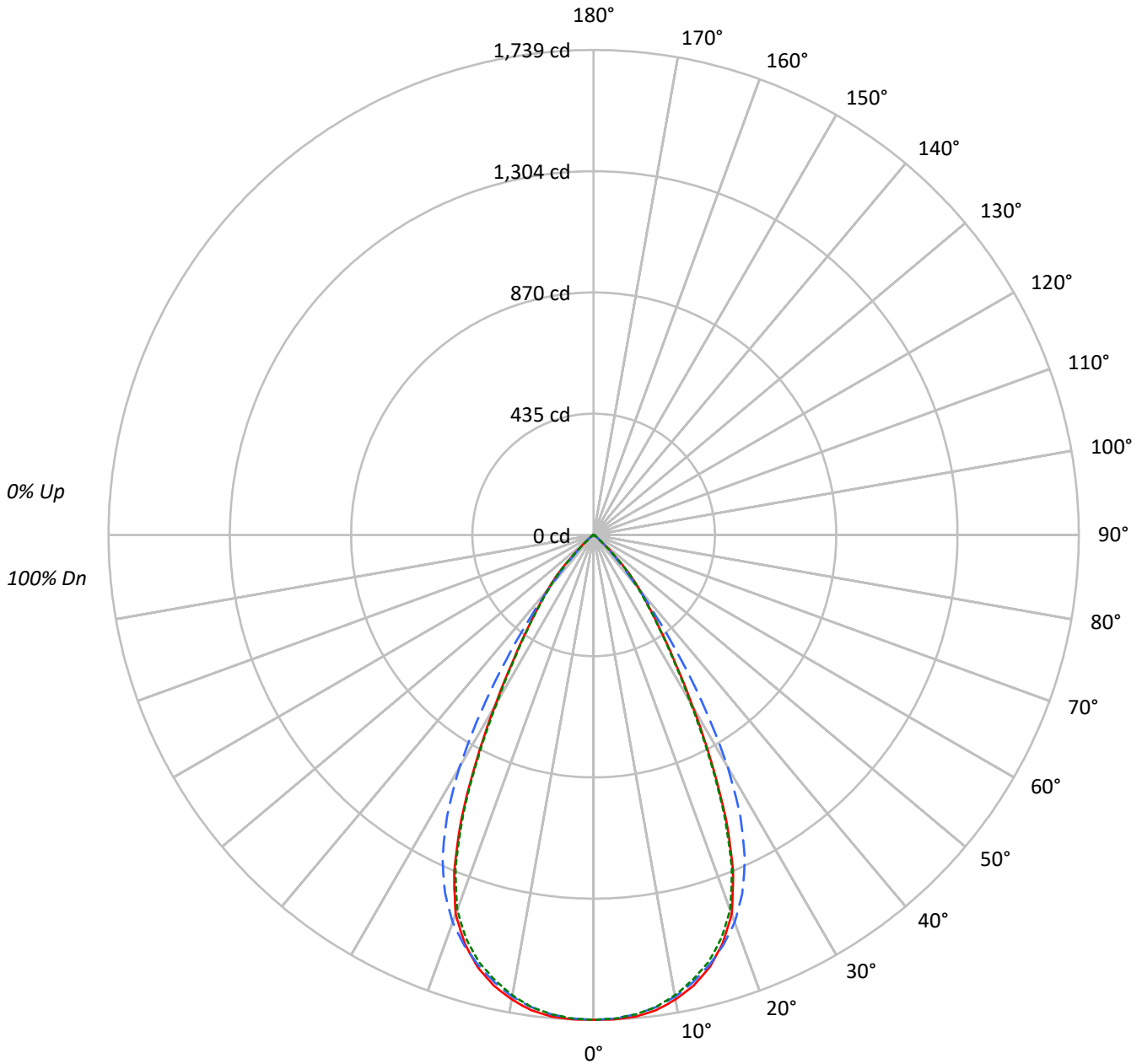
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1556.3 lumens  
Efficiency: N/A  
Efficacy: 71.4 lumens/watt  
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.9  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 21.8  
Input Voltage (V):  
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: 25 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	114	111	108	106	111	109	106	104	105	103	101	101	100	98	97	96	95	94																			
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87																			
3	103	96	91	88	101	95	90	87	92	89	85	90	87	84	88	85	83	81																			
4	98	90	85	80	96	89	84	80	87	82	79	85	81	78	83	80	77	76																			
5	93	84	79	74	91	84	78	74	82	77	73	80	76	73	79	75	72	71																			
6	88	79	73	69	87	79	73	69	77	72	68	76	71	68	74	71	68	66																			
7	84	75	69	65	82	74	68	64	73	68	64	71	67	64	70	66	63	62																			
8	80	70	64	60	79	70	64	60	69	64	60	68	63	60	67	63	59	58																			
9	76	66	61	57	75	66	60	57	65	60	56	64	60	56	63	59	56	55																			
10	72	63	57	53	71	62	57	53	62	57	53	61	56	53	60	56	53	52																			

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

	0°	45°	90°
0°	167736	167736	167736
5°	167912	167147	167147
10°	165709	164729	164220
15°	160328	159569	158490
20°	148487	151732	146845
25°	119399	136486	117813
30°	78804	107004	76933
35°	49260	64255	48353
40°	32144	29776	30885
45°	15474	11885	14601
50°	3888	4728	3648
55°	2153	1951	2086
60°	1467	1235	1389
65°	1005	913	1005
70°	762	677	762
75°	596	596	596
80°	445	667	667
85°	443	886	886



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	163.5	10.5
10°-20°	446.5	28.7
20°-30°	532.1	34.2
30°-40°	301.3	19.4
40°-50°	93.1	6.0
50°-60°	12.9	0.8
60°-70°	4.4	0.3
70°-80°	1.7	0.1
80°-90°	0.7	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°	1142.0	73.4
0°-40°	1443.3	92.7
0°-60°	1549.4	99.6
0°-90°	1556.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1556.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1738	1738	1738	1738	1738	
5°	1734	1730	1726	1724	1726	164
15°	1605	1602	1597	1591	1587	448
25°	1122	1187	1282	1189	1107	500
35°	418	456	546	457	410	272
45°	113	132	87	129	107	94
55°	13	13	12	12	12	13
65°	4	4	4	4	4	5
75°	2	2	2	2	2	2
85°	0	1	1	1	1	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1738.4	1738.4	1738.4	1738.4	1738.4
2.5°	1738.8	1736.1	1735.2	1734.4	1736.1
5°	1733.6	1729.6	1725.7	1724.5	1725.7
7.5°	1718.9	1714.9	1708.1	1706.5	1707.7
10°	1691.3	1687.7	1681.3	1677.8	1676.1
12.5°	1655.0	1649.0	1643.0	1639.0	1635.0
15°	1605.0	1602.3	1597.4	1591.1	1586.6
17.5°	1536.0	1539.9	1542.8	1530.0	1518.4
20°	1446.1	1460.9	1477.7	1451.6	1430.1
22.5°	1305.9	1348.3	1391.0	1341.9	1294.0
25°	1121.5	1186.9	1282.0	1188.9	1106.6
27.5°	906.1	989.2	1139.0	989.6	894.2
30°	707.3	792.7	960.4	781.5	690.5
32.5°	543.2	607.1	750.4	597.4	531.6
35°	418.2	456.1	545.5	457.2	410.5
37.5°	325.1	344.2	367.0	337.5	315.5
40°	255.2	256.0	236.4	252.0	245.2
42.5°	189.3	188.5	145.4	183.7	184.9
45°	113.4	132.2	87.1	128.6	107.0
47.5°	53.9	74.7	52.3	70.7	49.9
50°	25.9	35.9	31.5	33.6	24.3
52.5°	17.6	18.4	18.0	17.6	16.8
55°	12.8	12.8	11.6	12.4	12.4
57.5°	9.6	9.6	8.3	9.2	9.2
60°	7.6	7.2	6.4	7.2	7.2
62.5°	5.6	5.6	4.8	5.6	5.6
65°	4.4	4.4	4.0	4.4	4.4
67.5°	3.6	3.6	2.7	3.6	3.2
70°	2.7	2.7	2.4	2.7	2.7
72.5°	2.0	2.0	2.0	2.0	2.0
75°	1.6	1.6	1.6	1.6	1.6
77.5°	1.2	1.2	1.2	1.2	1.2
80°	0.8	0.8	1.2	1.2	1.2
82.5°	0.8	0.8	0.8	0.8	0.8
85°	0.4	0.8	0.8	0.8	0.8
87.5°	0.4	0.4	0.8	0.8	0.8
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG







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







(END OF REPORT)