

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: P#

Luminaire Tested: **LD4C30D010 EX4C309040 4LCSQWLI**

Issue Date: 2/18/2022

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



**Test Information**

Test Method: LM-79-08  
Report Number: P#  
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: LD4C30D010 EX4C309040 4LCSQWLI  
Description: 4 INCH 3000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS  
AND 4LCSQW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

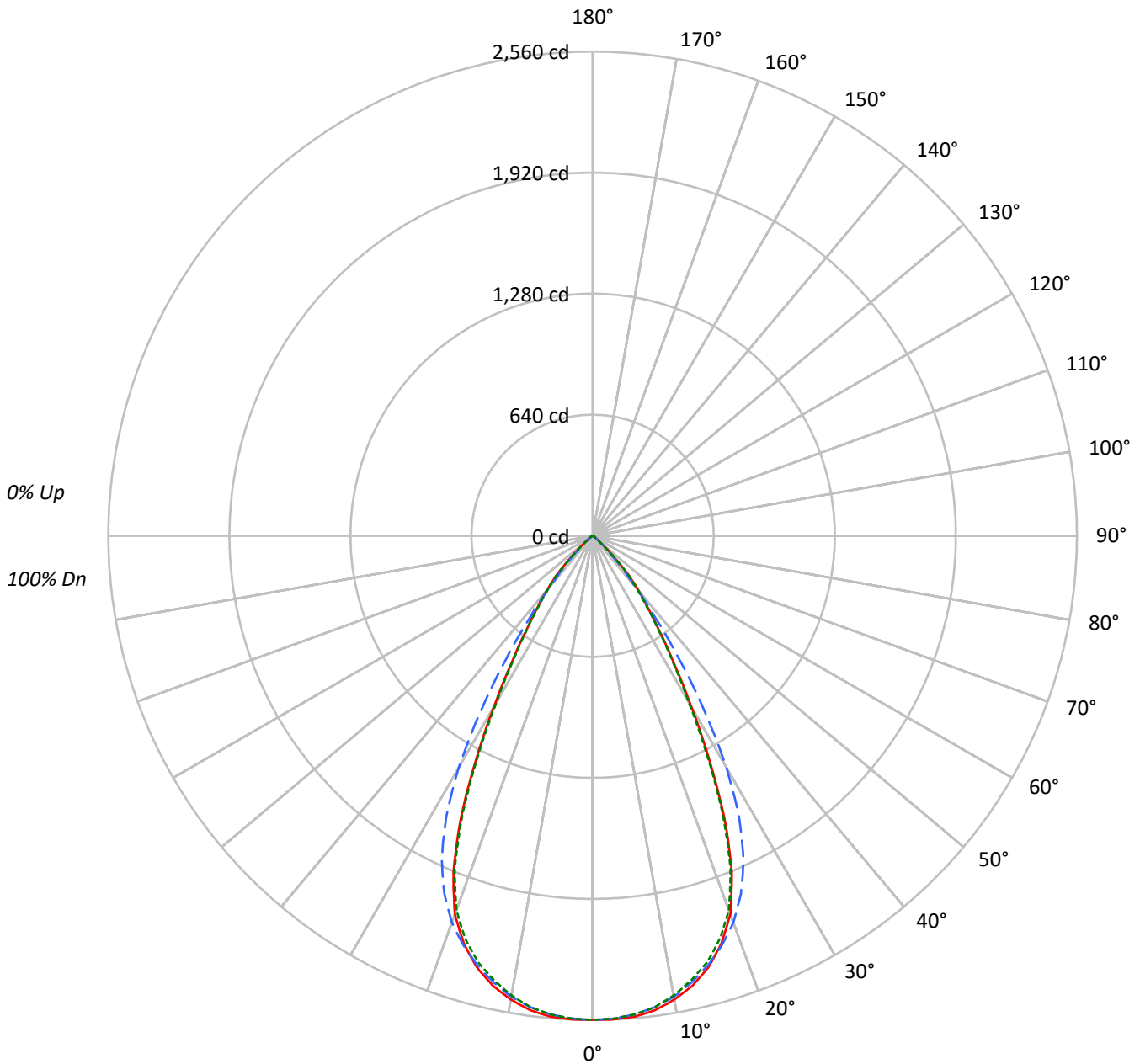
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2291.0 lumens  
Efficiency: N/A  
Efficacy: 72.5 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): 31.6  
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°	246925	246925	246925
5°	247180	246047	246047
10°	243934	242494	241749
15°	236016	234908	233319
20°	218588	223352	216165
25°	175750	200908	173429
30°	116006	157531	113254
35°	72500	94598	71193
40°	47322	43833	45471
45°	22788	17494	21505
50°	5734	6965	5389
55°	3163	2860	3062
60°	2161	1814	2046
65°	1484	1347	1484
70°	1157	987	1157
75°	895	895	895
80°	667	1000	1000
85°	664	1329	1329



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	240.7	10.5
10°-20°	657.2	28.7
20°-30°	783.2	34.2
30°-40°	443.5	19.4
40°-50°	137.1	6.0
50°-60°	19.0	0.8
60°-70°	6.5	0.3
70°-80°	2.6	0.1
80°-90°	1.1	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°	1681.1	73.4
0°-40°	2124.7	92.7
0°-60°	2280.8	99.6
0°-90°	2291.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2291.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2559	2559	2559	2559	2559	
5°	2552	2546	2540	2538	2540	242
15°	2363	2359	2352	2342	2336	659
25°	1651	1747	1887	1750	1629	736
35°	616	671	803	673	604	401
45°	167	195	128	189	158	138
55°	19	19	17	18	18	19
65°	6	6	6	6	6	7
75°	2	2	2	2	2	3
85°	1	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°	2559.1	2559.1	2559.1	2559.1	2559.1
2.5°	2559.7	2555.6	2554.4	2553.2	2555.6
5°	2552.0	2546.2	2540.3	2538.5	2540.3
7.5°	2530.3	2524.4	2514.4	2512.1	2513.8
10°	2489.7	2484.4	2475.0	2469.7	2467.4
12.5°	2436.2	2427.4	2418.6	2412.7	2406.8
15°	2362.7	2358.6	2351.6	2342.2	2335.7
17.5°	2261.0	2266.9	2271.0	2252.2	2235.2
20°	2128.8	2150.5	2175.2	2137.0	2105.2
22.5°	1922.4	1984.7	2047.6	1975.3	1904.8
25°	1650.8	1747.2	1887.1	1750.2	1629.0
27.5°	1333.9	1456.2	1676.7	1456.8	1316.3
30°	1041.2	1167.0	1413.9	1150.5	1016.5
32.5°	799.5	893.6	1104.6	879.5	782.5
35°	615.5	671.4	803.1	673.1	604.4
37.5°	478.5	506.8	540.3	496.8	464.4
40°	375.7	376.8	348.0	371.0	361.0
42.5°	278.7	277.5	214.0	270.4	272.2
45°	167.0	194.6	128.2	189.3	157.6
47.5°	79.4	109.9	77.0	104.1	73.5
50°	38.2	52.9	46.4	49.4	35.9
52.5°	25.9	27.0	26.5	25.9	24.7
55°	18.8	18.8	17.0	18.2	18.2
57.5°	14.1	14.1	12.3	13.5	13.5
60°	11.2	10.6	9.4	10.6	10.6
62.5°	8.2	8.2	7.1	8.2	8.2
65°	6.5	6.5	5.9	6.5	6.5
67.5°	5.3	5.3	4.1	5.3	4.7
70°	4.1	4.1	3.5	4.1	4.1
72.5°	2.9	2.9	2.9	2.9	2.9
75°	2.4	2.4	2.4	2.4	2.4
77.5°	1.8	1.8	1.8	1.8	1.8
80°	1.2	1.2	1.8	1.8	1.8
82.5°	1.2	1.2	1.2	1.2	1.2
85°	0.6	1.2	1.2	1.2	1.2
87.5°	0.6	0.6	1.2	1.2	1.2
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)