

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: **LD4C05D010 EX4C059027 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: LD4C05D010 EX4C059027 4LCSQWLI  
Description: 4 INCH 500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS AND 4LCSQW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

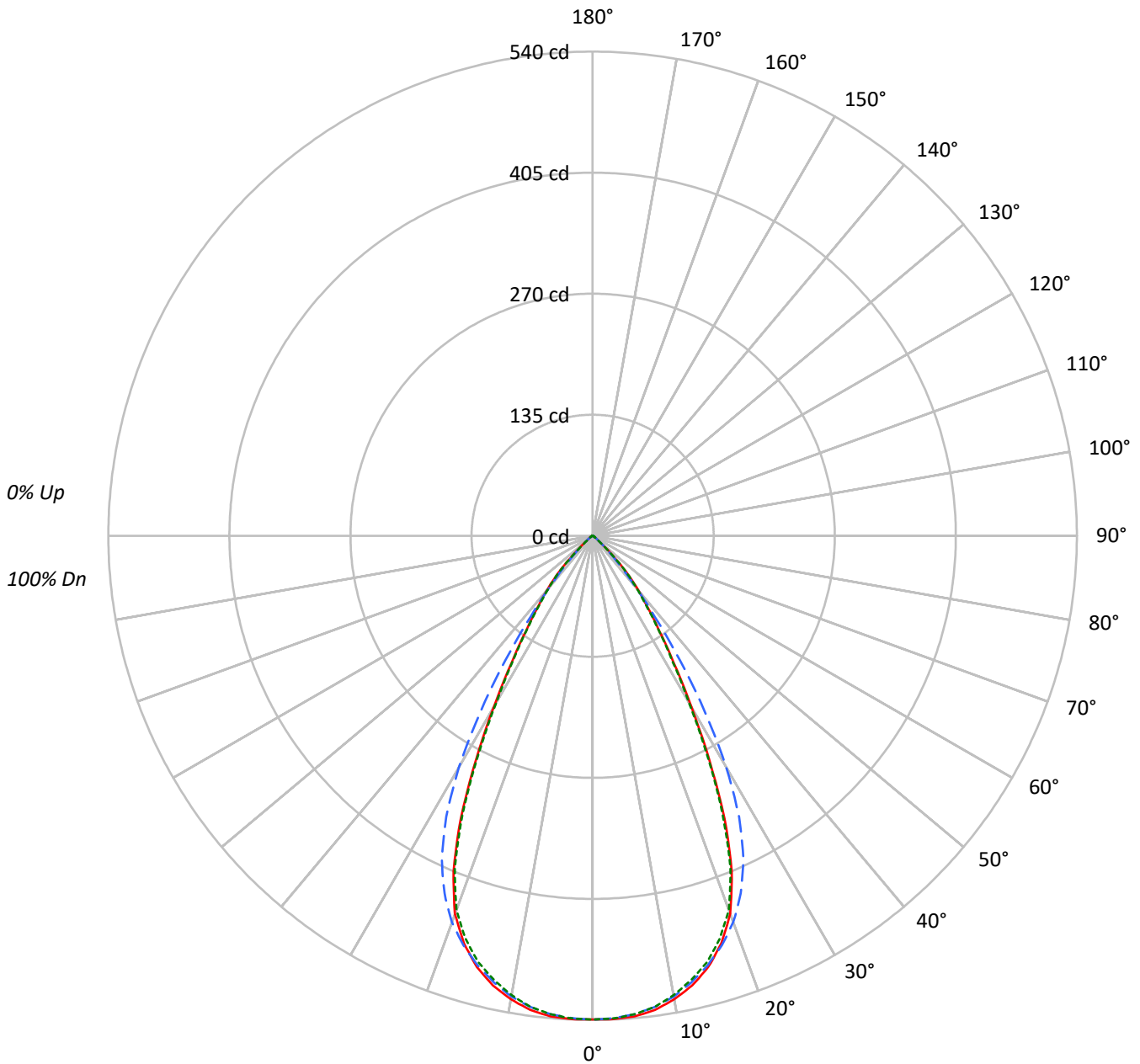
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 483.0 lumens  
Efficiency: N/A  
Efficacy: 67.1 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): 7.2  
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°	52056	52056	52056
5°	52109	51877	51877
10°	51428	51125	50968
15°	49757	49527	49187
20°	46083	47090	45570
25°	37049	42362	36560
30°	24456	33213	23876
35°	15289	19942	15007
40°	9976	9245	9585
45°	4803	3684	4530
50°	1216	1471	1141
55°	673	606	639
60°	463	386	425
65°	320	274	320
70°	254	197	254
75°	186	186	186
80°	111	222	222
85°	111	221	221



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	50.7	10.5
10°-20°	138.6	28.7
20°-30°	165.1	34.2
30°-40°	93.5	19.4
40°-50°	28.9	6.0
50°-60°	4.0	0.8
60°-70°	1.4	0.3
70°-80°	0.6	0.1
80°-90°	0.2	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°	354.4	73.4
0°-40°	447.9	92.7
0°-60°	480.9	99.6
0°-90°	483.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	483.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	540	540	540	540	540	
5°	538	537	536	535	536	51
15°	498	497	496	494	492	139
25°	348	368	398	369	343	155
35°	130	142	169	142	127	84
45°	35	41	27	40	33	29
55°	4	4	4	4	4	4
65°	1	1	1	1	1	1
75°	0	0	0	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	539.5	539.5	539.5	539.5	539.5
2.5°	539.6	538.8	538.5	538.3	538.8
5°	538.0	536.8	535.6	535.2	535.6
7.5°	533.4	532.2	530.1	529.6	530.0
10°	524.9	523.8	521.8	520.7	520.2
12.5°	513.6	511.8	509.9	508.7	507.4
15°	498.1	497.3	495.8	493.8	492.4
17.5°	476.7	477.9	478.8	474.8	471.2
20°	448.8	453.4	458.6	450.5	443.8
22.5°	405.3	418.4	431.7	416.4	401.6
25°	348.0	368.4	397.9	369.0	343.4
27.5°	281.2	307.0	353.5	307.1	277.5
30°	219.5	246.0	298.1	242.6	214.3
32.5°	168.6	188.4	232.9	185.4	165.0
35°	129.8	141.5	169.3	141.9	127.4
37.5°	100.9	106.8	113.9	104.7	97.9
40°	79.2	79.4	73.4	78.2	76.1
42.5°	58.7	58.5	45.1	57.0	57.4
45°	35.2	41.0	27.0	39.9	33.2
47.5°	16.7	23.2	16.2	21.9	15.5
50°	8.1	11.2	9.8	10.4	7.6
52.5°	5.5	5.7	5.6	5.5	5.2
55°	4.0	4.0	3.6	3.8	3.8
57.5°	3.0	3.0	2.6	2.9	2.9
60°	2.4	2.2	2.0	2.2	2.2
62.5°	1.7	1.7	1.5	1.7	1.7
65°	1.4	1.4	1.2	1.4	1.4
67.5°	1.1	1.1	0.9	1.1	1.0
70°	0.9	0.9	0.7	0.9	0.9
72.5°	0.6	0.6	0.6	0.6	0.6
75°	0.5	0.5	0.5	0.5	0.5
77.5°	0.4	0.4	0.4	0.4	0.4
80°	0.2	0.2	0.4	0.4	0.4
82.5°	0.2	0.2	0.2	0.2	0.2
85°	0.1	0.2	0.2	0.2	0.2
87.5°	0.1	0.1	0.2	0.2	0.2
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)