

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: **LD4C45D010 EX4C459050 4LCSQWH**

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 (G1-2105-247-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/18/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD4C45D010 EX4C459050 4LCSQWH  
Description: 4 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 4LCSQW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

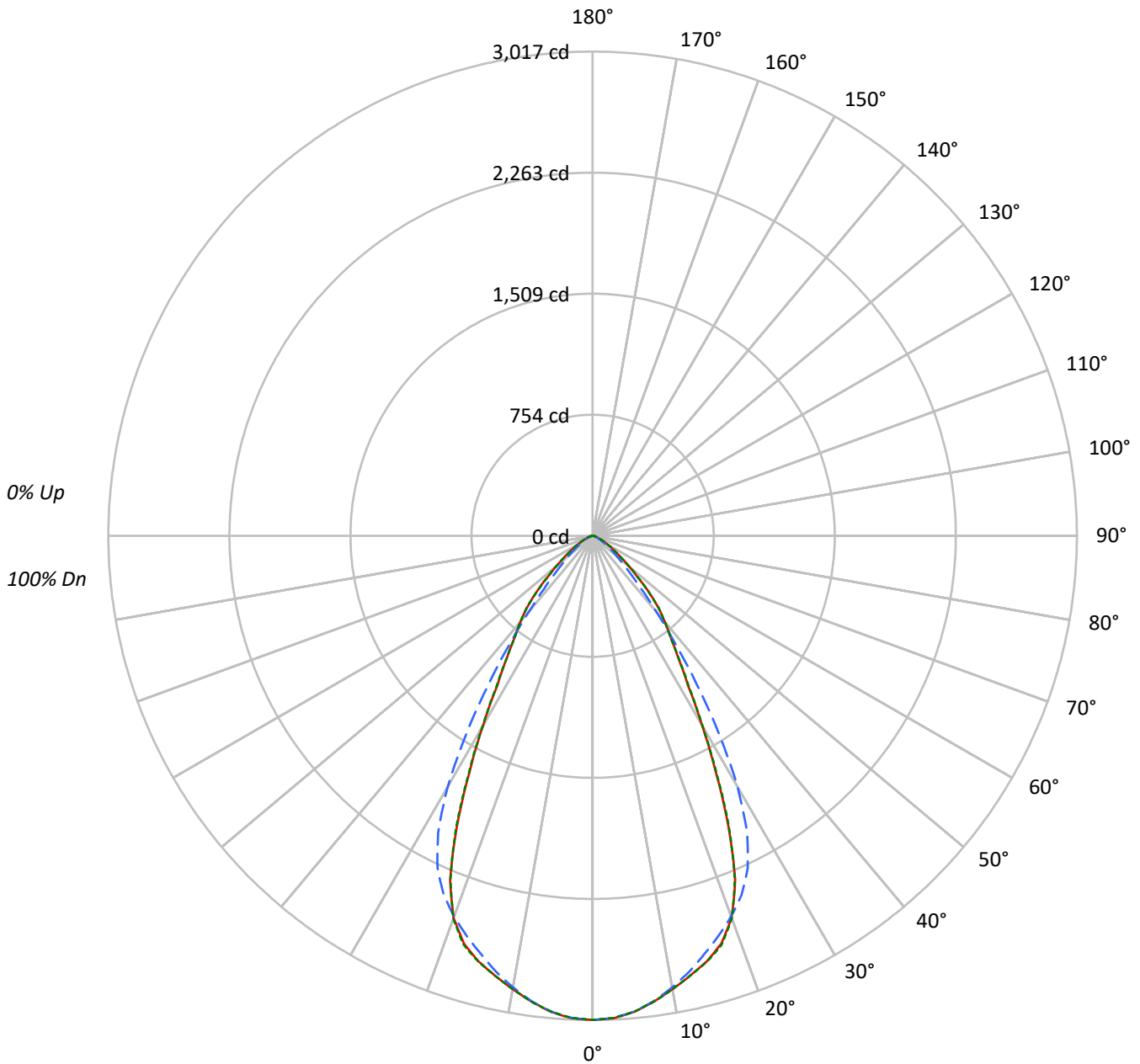
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3193.0 lumens  
Efficiency: N/A  
Efficacy: 64.4 lumens/watt  
Spacing Criteria (0/90/45): 0.93 / 0.93 / 0.94  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 49.6  
Input Voltage (V):  
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: 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	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92																			
2	107	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84																			
3	101	93	88	84	98	92	87	83	89	85	82	87	83	80	85	82	79	77																			
4	95	87	80	76	93	85	80	75	83	78	74	81	77	74	79	76	73	71																			
5	89	80	74	69	88	79	73	69	78	72	68	76	71	68	74	70	67	66																			
6	85	75	68	64	83	74	68	63	72	67	63	71	66	63	70	65	62	61																			
7	80	70	63	59	79	69	63	59	68	62	58	67	62	58	65	61	58	56																			
8	76	65	59	55	74	65	59	54	64	58	54	63	58	54	62	57	54	52																			
9	72	61	55	51	71	61	55	51	60	54	51	59	54	50	58	54	50	49																			
10	68	58	52	48	67	57	51	47	57	51	47	56	51	47	55	50	47	46																			

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

	0°	45°	90°
0°	291088	291088	291088
5°	288422	288238	288325
10°	281038	279921	281038
15°	274265	269331	274555
20°	260040	259065	260533
25°	213311	243387	214418
30°	152105	201072	152317
35°	109711	133245	110041
40°	87956	77413	87956
45°	67123	45181	66604
50°	44267	28851	44132
55°	29776	19362	29456
60°	20012	13219	20205
65°	13676	9338	13470
70°	9112	6714	9112
75°	6039	4958	6039
80°	4223	3723	4223
85°	3211	3211	3211



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	280.4	8.8
10°-20°	764.7	23.9
20°-30°	955.9	29.9
30°-40°	643.1	20.1
40°-50°	339.6	10.6
50°-60°	138.0	4.3
60°-70°	51.2	1.6
70°-80°	16.5	0.5
80°-90°	3.6	0.1
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°	2001.1	62.7
0°-40°	2644.1	82.8
0°-60°	3121.7	97.8
0°-90°	3193.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3193.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3017	3017	3017	3017	3017	
5°	2978	2975	2976	2976	2977	281
15°	2746	2723	2696	2722	2748	769
25°	2004	2116	2286	2120	2014	902
35°	931	978	1131	980	934	599
45°	492	467	331	465	488	377
55°	177	148	115	148	175	164
65°	60	48	41	48	59	62
75°	16	14	13	14	16	19
85°	3	3	3	3	3	4
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3016.8	3016.8	3016.8	3016.8	3016.8
2.5°	3009.2	3007.3	3006.3	3006.3	3007.3
5°	2977.8	2974.9	2975.9	2975.9	2976.8
7.5°	2927.4	2926.4	2923.6	2927.4	2927.4
10°	2868.4	2863.6	2857.0	2864.6	2868.4
12.5°	2807.5	2793.2	2781.8	2793.2	2807.5
15°	2745.6	2722.8	2696.2	2721.9	2748.5
17.5°	2664.8	2641.9	2612.5	2646.7	2672.4
20°	2532.5	2534.4	2523.0	2532.5	2537.3
22.5°	2320.4	2363.2	2423.1	2364.1	2313.7
25°	2003.6	2115.8	2286.1	2119.6	2014.0
27.5°	1663.9	1806.6	2085.4	1815.2	1674.4
30°	1365.2	1491.7	1804.7	1500.3	1367.1
32.5°	1105.5	1199.7	1467.0	1211.1	1117.9
35°	931.4	978.0	1131.2	979.9	934.2
37.5°	798.2	798.2	840.1	802.0	794.4
40°	698.3	667.9	614.6	666.9	698.3
42.5°	605.1	559.4	446.2	557.5	607.0
45°	491.9	467.1	331.1	465.2	488.1
47.5°	377.7	360.6	249.3	358.7	380.5
50°	294.9	268.3	192.2	266.4	294.0
52.5°	226.4	197.9	148.4	197.9	224.5
55°	177.0	148.4	115.1	148.4	175.1
57.5°	136.0	113.2	87.5	111.3	135.1
60°	103.7	84.7	68.5	84.7	104.7
62.5°	79.0	64.7	52.3	63.7	78.0
65°	59.9	48.5	40.9	48.5	59.0
67.5°	43.8	36.2	31.4	36.2	44.7
70°	32.3	27.6	23.8	26.6	32.3
72.5°	23.8	20.0	18.1	20.0	23.8
75°	16.2	14.3	13.3	14.3	16.2
77.5°	11.4	10.5	9.5	10.5	11.4
80°	7.6	6.7	6.7	7.6	7.6
82.5°	4.8	4.8	4.8	4.8	4.8
85°	2.9	2.9	2.9	2.9	2.9
87.5°	1.9	1.9	1.9	1.9	1.9
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)