

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 EX4C459035 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 EX4C459035 4LCSQWH  
Description: 4 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS  
AND 4LCSQW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

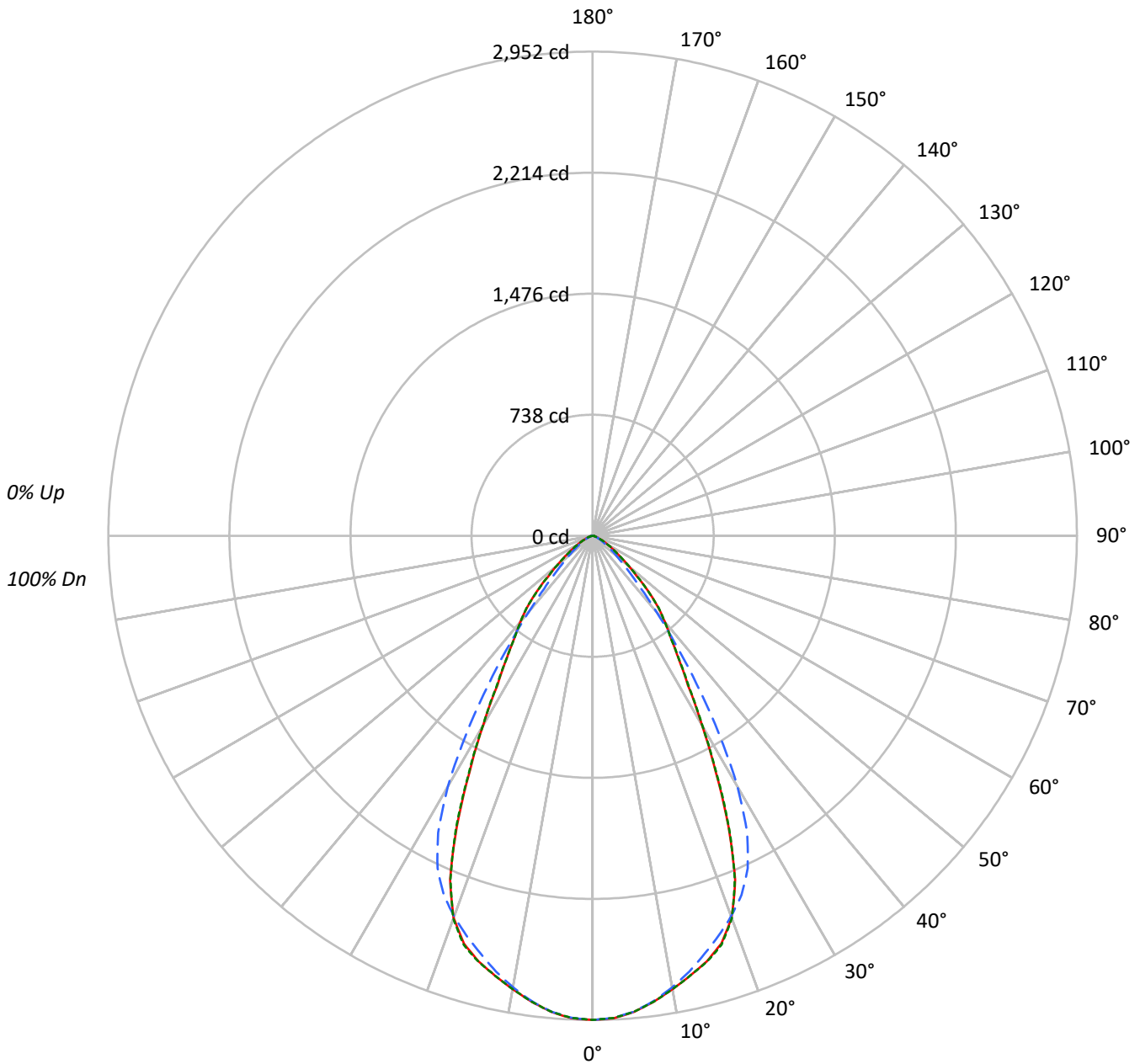
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3124.0 lumens  
Efficiency: N/A  
Efficacy: 63.0 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 (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	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°	284797	284797	284797
5°	282185	282010	282097
10°	274964	273866	274964
15°	268342	263507	268621
20°	254424	253469	254906
25°	208701	238127	209787
30°	148818	196727	149030
35°	107343	130360	107673
40°	86054	75738	86054
45°	65663	44198	65158
50°	43322	28221	43172
55°	29119	18942	28817
60°	19587	12930	19761
65°	13379	9132	13174
70°	8915	6573	8915
75°	5890	4846	5890
80°	4112	3612	4112
85°	3100	3100	3100



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	274.4	8.8
10°-20°	748.2	23.9
20°-30°	935.3	29.9
30°-40°	629.2	20.1
40°-50°	332.2	10.6
50°-60°	135.0	4.3
60°-70°	50.1	1.6
70°-80°	16.2	0.5
80°-90°	3.5	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°	1957.8	62.7
0°-40°	2587.0	82.8
0°-60°	3054.3	97.8
0°-90°	3124.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3124.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2952	2952	2952	2952	2952	
5°	2913	2911	2912	2912	2912	275
15°	2686	2664	2638	2663	2689	753
25°	1960	2070	2237	2074	1970	882
35°	911	957	1107	959	914	586
45°	481	457	324	455	478	369
55°	173	145	113	145	171	161
65°	59	48	40	48	58	60
75°	16	14	13	14	16	18
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°	2951.6	2951.6	2951.6	2951.6	2951.6
2.5°	2944.1	2942.3	2941.4	2941.4	2942.3
5°	2913.4	2910.6	2911.6	2911.6	2912.5
7.5°	2864.1	2863.2	2860.4	2864.1	2864.1
10°	2806.4	2801.7	2795.2	2802.7	2806.4
12.5°	2746.8	2732.9	2721.7	2732.9	2746.8
15°	2686.3	2664.0	2637.9	2663.0	2689.1
17.5°	2607.2	2584.9	2556.0	2589.5	2614.6
20°	2477.8	2479.7	2468.5	2477.8	2482.5
22.5°	2270.2	2312.1	2370.8	2313.1	2263.7
25°	1960.3	2070.1	2236.7	2073.8	1970.5
27.5°	1628.0	1767.6	2040.3	1776.0	1638.2
30°	1335.7	1459.5	1765.7	1467.9	1337.6
32.5°	1081.6	1173.7	1435.3	1184.9	1093.7
35°	911.3	956.9	1106.7	958.7	914.1
37.5°	780.9	780.9	821.9	784.7	777.2
40°	683.2	653.4	601.3	652.5	683.2
42.5°	592.0	547.3	436.5	545.5	593.9
45°	481.2	457.0	323.9	455.2	477.5
47.5°	369.5	352.8	243.9	350.9	372.3
50°	288.6	262.5	188.0	260.6	287.6
52.5°	221.5	193.6	145.2	193.6	219.7
55°	173.1	145.2	112.6	145.2	171.3
57.5°	133.1	110.8	85.6	108.9	132.2
60°	101.5	82.8	67.0	82.8	102.4
62.5°	77.3	63.3	51.2	62.4	76.3
65°	58.6	47.5	40.0	47.5	57.7
67.5°	42.8	35.4	30.7	35.4	43.7
70°	31.6	27.0	23.3	26.1	31.6
72.5°	23.3	19.5	17.7	19.5	23.3
75°	15.8	14.0	13.0	14.0	15.8
77.5°	11.2	10.2	9.3	10.2	11.2
80°	7.4	6.5	6.5	7.4	7.4
82.5°	4.7	4.7	4.7	4.7	4.7
85°	2.8	2.8	2.8	2.8	2.8
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)