

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 EX4C459027 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 EX4C459027 4LCSQWH
Description: 4 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LCSQW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

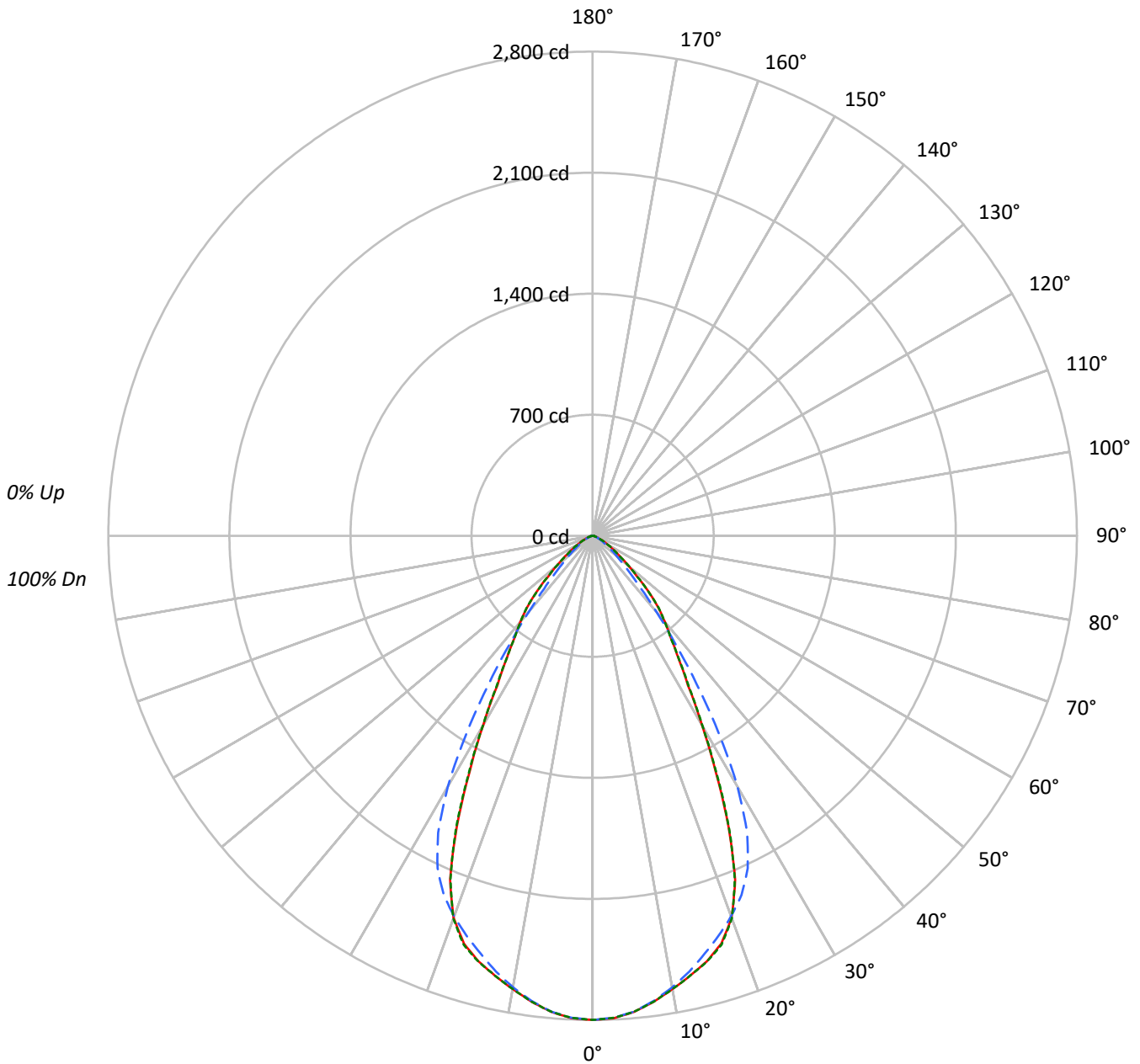
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2963.0 lumens
Efficiency: N/A
Efficacy: 59.7 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°	270121	270121	270121
5°	267646	267472	267559
10°	260796	259758	260796
15°	254516	249931	254776
20°	241311	240408	241763
25°	197948	225863	198981
30°	141153	186588	141342
35°	101807	123645	102113
40°	81620	71833	81620
45°	62278	41919	61801
50°	41085	26765	40950
55°	27622	17966	27319
60°	18564	12273	18738
65°	12694	8676	12489
70°	8463	6235	8463
75°	5592	4623	5592
80°	3945	3445	3945
85°	2878	2878	2878



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.2	8.8
10°-20°	709.6	23.9
20°-30°	887.1	29.9
30°-40°	596.8	20.1
40°-50°	315.1	10.6
50°-60°	128.1	4.3
60°-70°	47.5	1.6
70°-80°	15.3	0.5
80°-90°	3.3	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°	1856.9	62.7
0°-40°	2453.7	82.8
0°-60°	2896.9	97.8
0°-90°	2963.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2963.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2800	2800	2800	2800	2800	
5°	2763	2761	2762	2762	2762	260
15°	2548	2527	2502	2526	2550	714
25°	1859	1963	2122	1967	1869	837
35°	864	908	1050	909	867	556
45°	456	434	307	432	453	350
55°	164	138	107	138	162	152
65°	56	45	38	45	55	57
75°	15	13	12	13	15	17
85°	3	3	3	3	3	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2799.5	2799.5	2799.5	2799.5	2799.5
2.5°	2792.4	2790.6	2789.8	2789.8	2790.6
5°	2763.3	2760.6	2761.5	2761.5	2762.4
7.5°	2716.5	2715.6	2713.0	2716.5	2716.5
10°	2661.8	2657.3	2651.2	2658.2	2661.8
12.5°	2605.3	2592.0	2581.4	2592.0	2605.3
15°	2547.9	2526.7	2502.0	2525.8	2550.5
17.5°	2472.8	2451.6	2424.3	2456.1	2479.9
20°	2350.1	2351.9	2341.3	2350.1	2354.5
22.5°	2153.2	2193.0	2248.6	2193.9	2147.1
25°	1859.3	1963.4	2121.5	1967.0	1869.0
27.5°	1544.1	1676.5	1935.2	1684.5	1553.8
30°	1266.9	1384.3	1674.7	1392.2	1268.6
32.5°	1025.9	1113.3	1361.3	1123.9	1037.3
35°	864.3	907.6	1049.7	909.3	866.9
37.5°	740.7	740.7	779.5	744.2	737.2
40°	648.0	619.8	570.3	618.9	648.0
42.5°	561.5	519.1	414.1	517.3	563.3
45°	456.4	433.5	307.2	431.7	452.9
47.5°	350.5	334.6	231.3	332.8	353.1
50°	273.7	249.0	178.3	247.2	272.8
52.5°	210.1	183.6	137.7	183.6	208.3
55°	164.2	137.7	106.8	137.7	162.4
57.5°	126.2	105.1	81.2	103.3	125.4
60°	96.2	78.6	63.6	78.6	97.1
62.5°	73.3	60.0	48.6	59.2	72.4
65°	55.6	45.0	38.0	45.0	54.7
67.5°	40.6	33.5	29.1	33.5	41.5
70°	30.0	25.6	22.1	24.7	30.0
72.5°	22.1	18.5	16.8	18.5	22.1
75°	15.0	13.2	12.4	13.2	15.0
77.5°	10.6	9.7	8.8	9.7	10.6
80°	7.1	6.2	6.2	7.1	7.1
82.5°	4.4	4.4	4.4	4.4	4.4
85°	2.6	2.6	2.6	2.6	2.6
87.5°	1.8	1.8	1.8	1.8	1.8
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)