

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 EX4C459030 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 EX4C459030 4LCSQWH
Description: 4 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LCSQW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

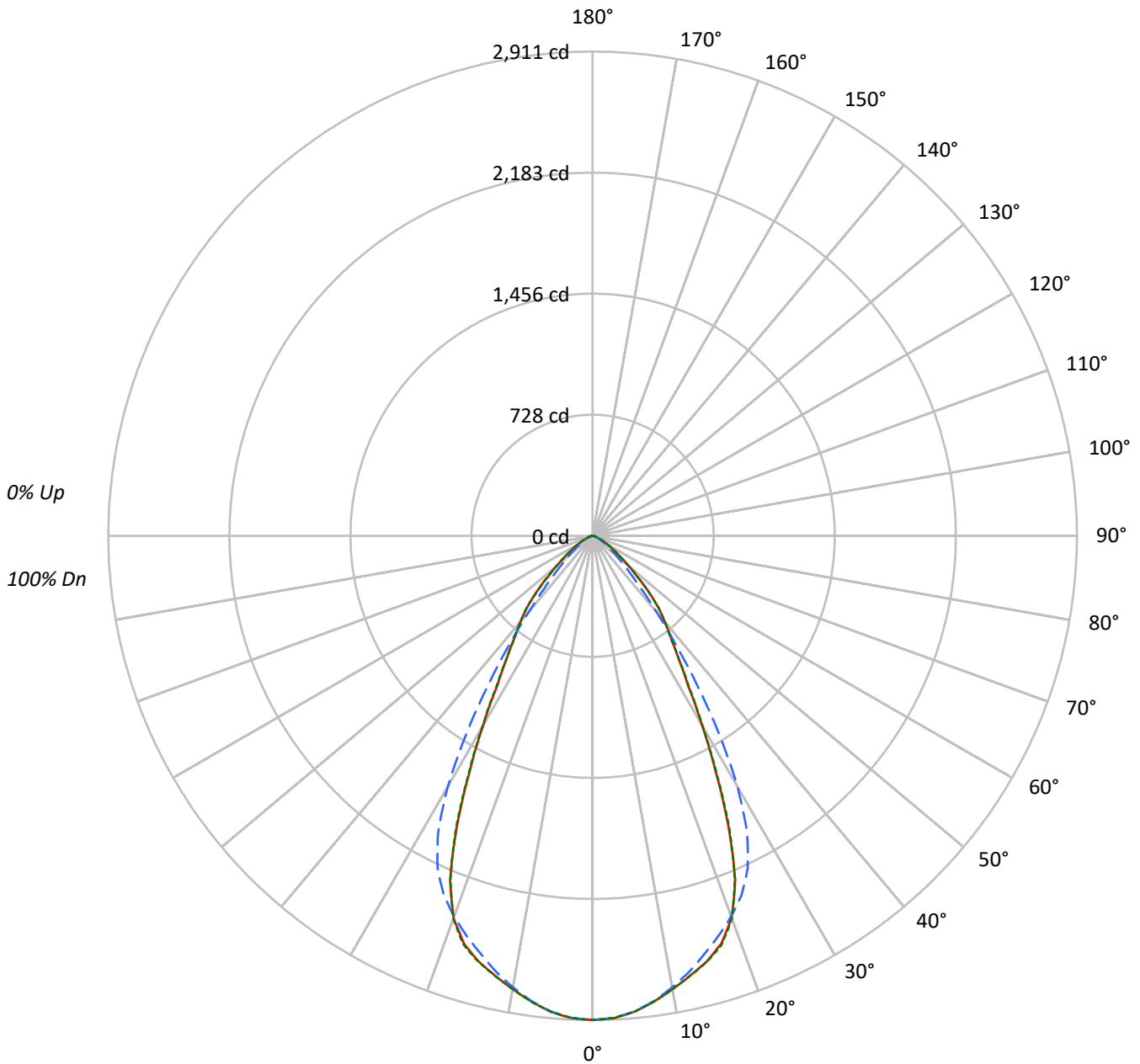
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3081.0 lumens
Efficiency: N/A
Efficacy: 62.1 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°	280879	280879	280879
5°	278301	278126	278213
10°	271182	270094	271182
15°	264646	259881	264925
20°	250922	249978	251395
25°	205826	234848	206902
30°	146768	194019	146980
35°	105859	128569	106189
40°	84870	74693	84870
45°	64762	43598	64257
50°	42721	27830	42586
55°	28716	18690	28413
60°	19317	12756	19491
65°	13196	9018	12991
70°	8802	6460	8802
75°	5816	4809	5816
80°	4056	3556	4056
85°	3100	3100	3100



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.6	8.8
10°-20°	737.9	23.9
20°-30°	922.4	29.9
30°-40°	620.5	20.1
40°-50°	327.6	10.6
50°-60°	133.2	4.3
60°-70°	49.4	1.6
70°-80°	15.9	0.5
80°-90°	3.4	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°	1930.9	62.7
0°-40°	2551.4	82.8
0°-60°	3012.2	97.8
0°-90°	3081.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3081.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2911	2911	2911	2911	2911	
5°	2873	2871	2872	2872	2872	271
15°	2649	2627	2602	2626	2652	742
25°	1933	2042	2206	2045	1943	870
35°	899	944	1092	946	902	578
45°	475	451	320	449	471	364
55°	171	143	111	143	169	158
65°	58	47	40	47	57	60
75°	16	14	13	14	16	18
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°	2911.0	2911.0	2911.0	2911.0	2911.0
2.5°	2903.6	2901.8	2900.9	2900.9	2901.8
5°	2873.3	2870.6	2871.5	2871.5	2872.4
7.5°	2824.7	2823.8	2821.0	2824.7	2824.7
10°	2767.8	2763.2	2756.7	2764.1	2767.8
12.5°	2709.0	2695.2	2684.2	2695.2	2709.0
15°	2649.3	2627.3	2601.6	2626.4	2652.1
17.5°	2571.3	2549.3	2520.8	2553.9	2578.7
20°	2443.7	2445.5	2434.5	2443.7	2448.3
22.5°	2239.0	2280.3	2338.1	2281.2	2232.6
25°	1933.3	2041.6	2205.9	2045.3	1943.4
27.5°	1605.6	1743.3	2012.2	1751.5	1615.7
30°	1317.3	1439.4	1741.4	1447.7	1319.2
32.5°	1066.7	1157.6	1415.6	1168.6	1078.6
35°	898.7	943.7	1091.5	945.5	901.5
37.5°	770.2	770.2	810.6	773.9	766.5
40°	673.8	644.4	593.0	643.5	673.8
42.5°	583.8	539.8	430.5	537.9	585.7
45°	474.6	450.7	319.5	448.9	470.9
47.5°	364.4	347.9	240.5	346.1	367.2
50°	284.6	258.9	185.4	257.0	283.7
52.5°	218.5	190.9	143.2	190.9	216.6
55°	170.7	143.2	111.1	143.2	168.9
57.5°	131.3	109.2	84.5	107.4	130.4
60°	100.1	81.7	66.1	81.7	101.0
62.5°	76.2	62.4	50.5	61.5	75.3
65°	57.8	46.8	39.5	46.8	56.9
67.5°	42.2	34.9	30.3	34.9	43.1
70°	31.2	26.6	22.9	25.7	31.2
72.5°	22.9	19.3	17.4	19.3	22.9
75°	15.6	13.8	12.9	13.8	15.6
77.5°	11.0	10.1	9.2	10.1	11.0
80°	7.3	6.4	6.4	7.3	7.3
82.5°	4.6	4.6	4.6	4.6	4.6
85°	2.8	2.8	2.8	2.8	2.8
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)