

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: **LD4C80D010 EX4C809027 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: LD4C80D010 EX4C809027 4LCSQWH
Description: 4 INCH 8000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LCSQW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

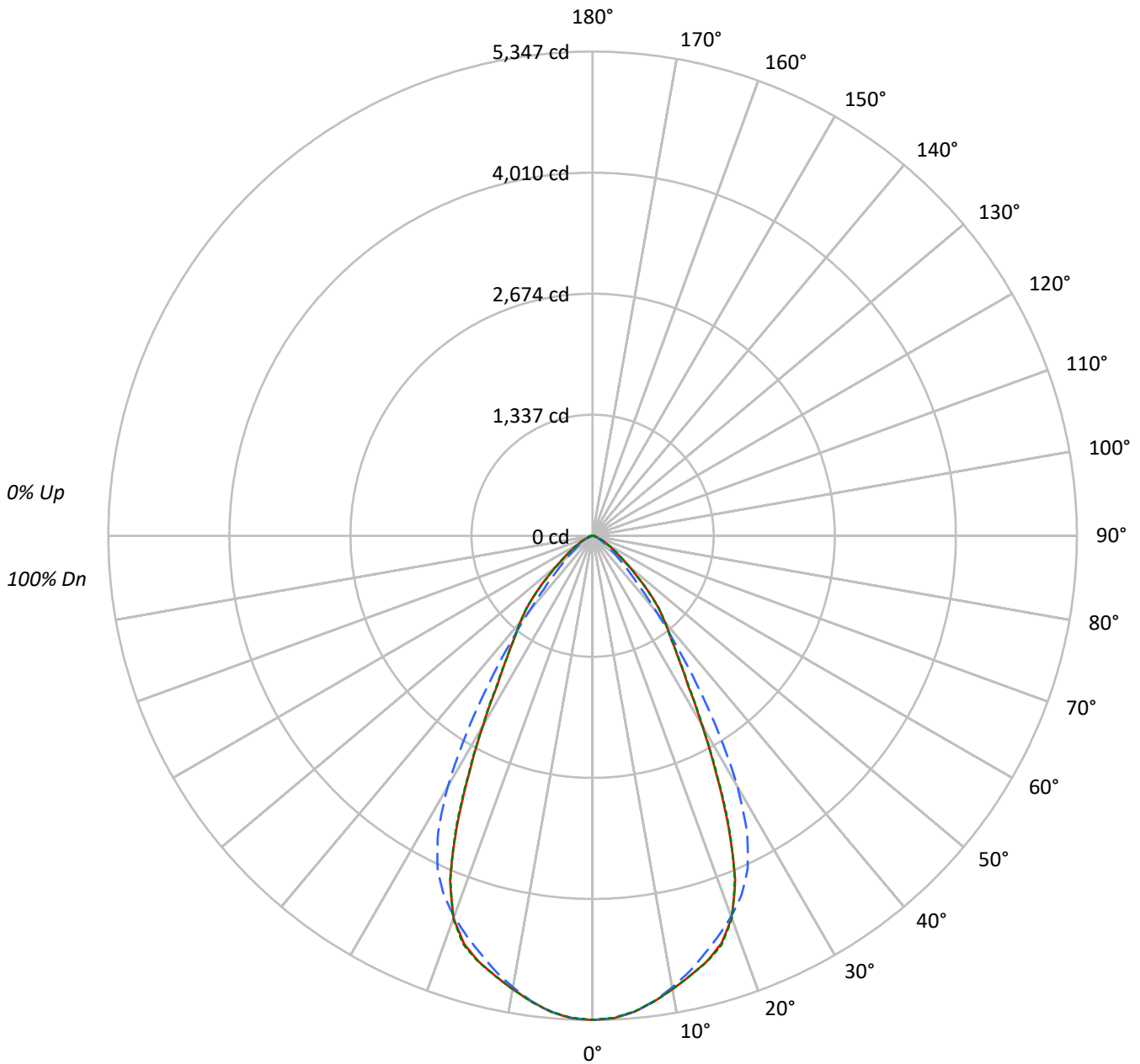
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5659.0 lumens
Efficiency: N/A
Efficacy: 63.2 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): 89.5
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

TEST NUMBER: P#
CATALOG NUMBER: LD4C80D010 EX4C809027 4LCSQWH

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: LD4C80D010 EX4C809027 4LCSQWH

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°	515897	515897	515897
5°	511175	510846	511010
10°	498088	496099	498088
15°	486088	477337	486597
20°	460885	459150	461748
25°	378053	431359	380022
30°	269582	356375	269960
35°	194438	236148	195039
40°	155885	137193	155885
45°	118949	80072	118034
50°	78463	51127	78207
55°	52755	34318	52183
60°	35469	23428	35797
65°	24247	16553	23859
70°	16165	11905	16165
75°	10699	8798	10699
80°	7501	6557	7501
85°	5646	5646	5646



TEST NUMBER: P#

CATALOG NUMBER: LD4C80D010 EX4C809027 4LCSQWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	497.0	8.8
10°-20°	1355.3	23.9
20°-30°	1694.2	29.9
30°-40°	1139.8	20.1
40°-50°	601.8	10.6
50°-60°	244.6	4.3
60°-70°	90.7	1.6
70°-80°	29.3	0.5
80°-90°	6.3	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°	3546.5	62.7
0°-40°	4686.3	82.8
0°-60°	5532.7	97.8
0°-90°	5659.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5659.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5347	5347	5347	5347	5347	
5°	5278	5272	5274	5274	5276	497
15°	4866	4826	4778	4824	4871	1363
25°	3551	3750	4052	3757	3570	1598
35°	1651	1733	2005	1737	1656	1062
45°	872	828	587	824	865	668
55°	314	263	204	263	310	291
65°	106	86	72	86	104	109
75°	29	25	24	25	29	33
85°	5	5	5	5	5	6
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: LD4C80D010 EX4C809027 4LCSQWH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5346.7	5346.7	5346.7	5346.7	5346.7
2.5°	5333.2	5329.8	5328.1	5328.1	5329.8
5°	5277.6	5272.5	5274.2	5274.2	5275.9
7.5°	5188.2	5186.5	5181.5	5188.2	5188.2
10°	5083.7	5075.2	5063.4	5076.9	5083.7
12.5°	4975.7	4950.5	4930.2	4950.5	4975.7
15°	4866.1	4825.7	4778.5	4824.0	4871.2
17.5°	4722.8	4682.4	4630.1	4690.8	4736.3
20°	4488.5	4491.8	4471.6	4488.5	4496.9
22.5°	4112.5	4188.3	4294.6	4190.0	4100.6
25°	3551.0	3749.9	4051.7	3756.7	3569.5
27.5°	2949.0	3201.9	3696.0	3217.1	2967.6
30°	2419.6	2643.8	3198.6	2659.0	2423.0
32.5°	1959.3	2126.2	2600.0	2146.4	1981.2
35°	1650.7	1733.3	2004.8	1736.7	1655.8
37.5°	1414.7	1414.7	1488.8	1421.4	1407.9
40°	1237.6	1183.7	1089.2	1182.0	1237.6
42.5°	1072.4	991.4	790.8	988.1	1075.7
45°	871.7	827.9	586.8	824.5	865.0
47.5°	669.4	639.0	441.8	635.7	674.4
50°	522.7	475.5	340.6	472.1	521.0
52.5°	401.3	350.7	263.0	350.7	397.9
55°	313.6	263.0	204.0	263.0	310.2
57.5°	241.1	200.6	155.1	197.3	239.4
60°	183.8	150.1	121.4	150.1	185.5
62.5°	139.9	114.7	92.7	113.0	138.3
65°	106.2	86.0	72.5	86.0	104.5
67.5°	77.6	64.1	55.6	64.1	79.2
70°	57.3	48.9	42.2	47.2	57.3
72.5°	42.2	35.4	32.0	35.4	42.2
75°	28.7	25.3	23.6	25.3	28.7
77.5°	20.2	18.5	16.9	18.5	20.2
80°	13.5	11.8	11.8	13.5	13.5
82.5°	8.4	8.4	8.4	8.4	8.4
85°	5.1	5.1	5.1	5.1	5.1
87.5°	3.4	3.4	3.4	3.4	3.4
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)