

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: **LD4C08D010 EX4C089030 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: LD4C08D010 EX4C089030 4LCSQWH
Description: 4 INCH 800 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS AND 4LCSQW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

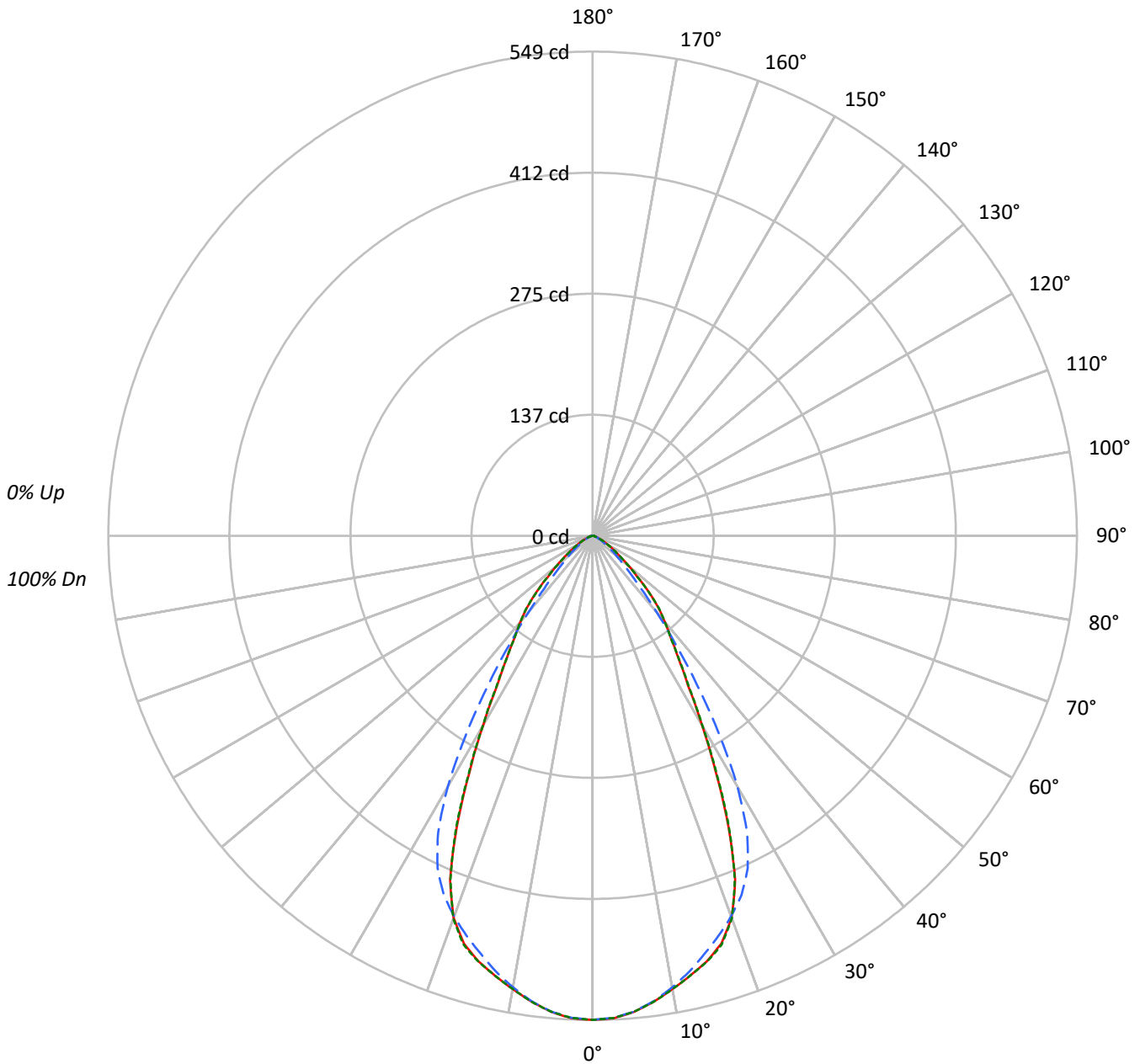
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 581.0 lumens
Efficiency: N/A
Efficacy: 58.7 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): 9.9
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: LD4C08D010 EX4C089030 4LCSQWH

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: LD4C08D010 EX4C089030 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°	52963	52963	52963
5°	52477	52448	52468
10°	51134	50938	51134
15°	49906	49007	49956
20°	47316	47141	47408
25°	38817	44289	39019
30°	27676	36589	27720
35°	19966	24241	20025
40°	16009	14082	16009
45°	12213	8215	12117
50°	8061	5254	8031
55°	5417	3516	5366
60°	3647	2412	3667
65°	2489	1690	2443
70°	1664	1213	1664
75°	1081	895	1081
80°	778	667	778
85°	554	554	554



TEST NUMBER: P#

CATALOG NUMBER: LD4C08D010 EX4C089030 4LCSQWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.0	8.8
10°-20°	139.1	23.9
20°-30°	173.9	29.9
30°-40°	117.0	20.1
40°-50°	61.8	10.6
50°-60°	25.1	4.3
60°-70°	9.3	1.6
70°-80°	3.0	0.5
80°-90°	0.6	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°	364.1	62.7
0°-40°	481.1	82.8
0°-60°	568.0	97.8
0°-90°	581.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	581.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	549	549	549	549	549	
5°	542	541	542	542	542	51
15°	500	495	491	495	500	140
25°	365	385	416	386	366	164
35°	170	178	206	178	170	109
45°	90	85	60	85	89	69
55°	32	27	21	27	32	30
65°	11	9	7	9	11	11
75°	3	3	2	3	3	3
85°	0	0	0	0	0	1
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: LD4C08D010 EX4C089030 4LCSQWH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	548.9	548.9	548.9	548.9	548.9
2.5°	547.6	547.2	547.0	547.0	547.2
5°	541.8	541.3	541.5	541.5	541.7
7.5°	532.7	532.5	532.0	532.7	532.7
10°	521.9	521.1	519.9	521.2	521.9
12.5°	510.9	508.3	506.2	508.3	510.9
15°	499.6	495.4	490.6	495.3	500.1
17.5°	484.9	480.7	475.4	481.6	486.3
20°	460.8	461.2	459.1	460.8	461.7
22.5°	422.2	430.0	440.9	430.2	421.0
25°	364.6	385.0	416.0	385.7	366.5
27.5°	302.8	328.7	379.5	330.3	304.7
30°	248.4	271.4	328.4	273.0	248.8
32.5°	201.2	218.3	266.9	220.4	203.4
35°	169.5	178.0	205.8	178.3	170.0
37.5°	145.2	145.2	152.9	145.9	144.5
40°	127.1	121.5	111.8	121.4	127.1
42.5°	110.1	101.8	81.2	101.4	110.4
45°	89.5	85.0	60.2	84.7	88.8
47.5°	68.7	65.6	45.4	65.3	69.2
50°	53.7	48.8	35.0	48.5	53.5
52.5°	41.2	36.0	27.0	36.0	40.9
55°	32.2	27.0	20.9	27.0	31.9
57.5°	24.8	20.6	15.9	20.3	24.6
60°	18.9	15.4	12.5	15.4	19.0
62.5°	14.4	11.8	9.5	11.6	14.2
65°	10.9	8.8	7.4	8.8	10.7
67.5°	8.0	6.6	5.7	6.6	8.1
70°	5.9	5.0	4.3	4.8	5.9
72.5°	4.3	3.6	3.3	3.6	4.3
75°	2.9	2.6	2.4	2.6	2.9
77.5°	2.1	1.9	1.7	1.9	2.1
80°	1.4	1.2	1.2	1.4	1.4
82.5°	0.9	0.9	0.9	0.9	0.9
85°	0.5	0.5	0.5	0.5	0.5
87.5°	0.3	0.3	0.3	0.3	0.3
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)