

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: **LD4C55D010 EX4C559027 4LCSQWLI**

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 (G1-2105-247-13)
Test Lab: INNOVATION CENTER
Issue Date: 2/18/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C55D010 EX4C559027 4LCSQWLI
Description: 4 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LCSQW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

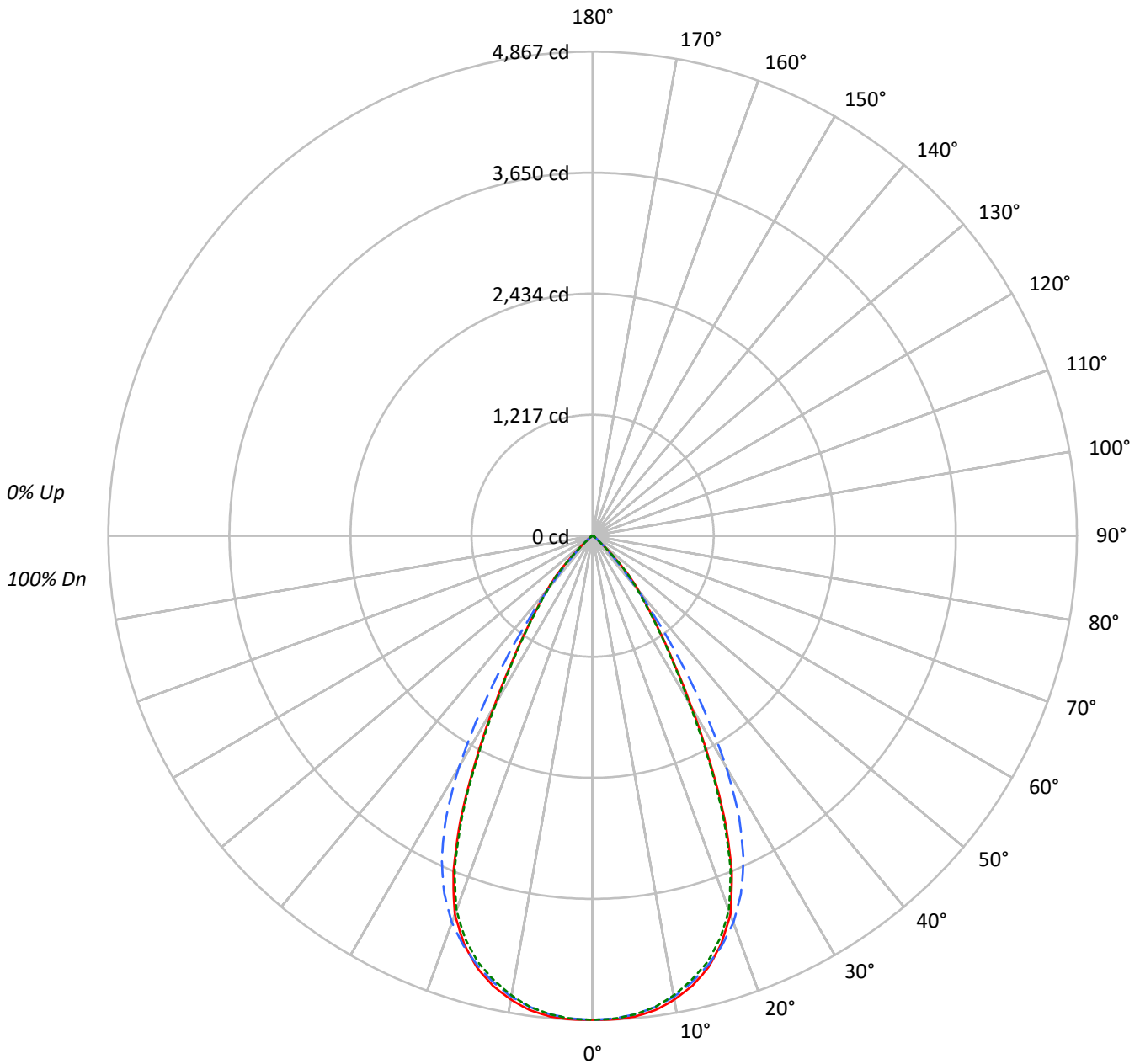
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4356.0 lumens
Efficiency: N/A
Efficacy: 68.2 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.9
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 63.9
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: LD4C55D010 EX4C559027 4LCSQWLI

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: LD4C55D010 EX4C559027 4LCSQWLI

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	114	111	108	106	111	109	106	104	105	103	101	101	100	98	97	96	95	94																			
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87																			
3	103	96	91	88	101	95	90	87	92	89	85	90	87	84	88	85	83	81																			
4	98	90	85	80	96	89	84	80	87	82	79	85	81	78	83	80	77	76																			
5	93	84	79	74	91	84	78	74	82	77	73	80	76	73	79	75	72	71																			
6	88	79	73	69	87	79	73	69	77	72	68	76	71	68	74	71	68	66																			
7	84	75	69	65	82	74	68	64	73	68	64	71	67	64	70	66	63	62																			
8	80	70	64	60	79	70	64	60	69	64	60	68	63	60	67	63	59	58																			
9	76	66	61	57	75	66	60	57	65	60	56	64	60	56	63	59	56	55																			
10	72	63	57	53	71	62	57	53	62	57	53	61	56	53	60	56	53	52																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	469486	469486	469486
5°	469981	467822	467822
10°	463805	461072	459651
15°	448758	446640	443623
20°	415603	424669	411013
25°	334158	382002	329761
30°	220559	299519	215333
35°	137851	179855	135354
40°	89971	83346	86444
45°	43325	33254	40882
50°	10913	13255	10238
55°	6022	5450	5837
60°	4091	3454	3879
65°	2808	2557	2808
70°	2200	1890	2200
75°	1678	1678	1678
80°	1222	1889	1889
85°	1218	2436	2436



TEST NUMBER: P#

CATALOG NUMBER: LD4C55D010 EX4C559027 4LCSQWLI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	457.6	10.5
10°-20°	1249.6	28.7
20°-30°	1489.2	34.2
30°-40°	843.3	19.4
40°-50°	260.7	6.0
50°-60°	36.2	0.8
60°-70°	12.3	0.3
70°-80°	4.9	0.1
80°-90°	2.0	0.0
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°	3196.5	73.4
0°-40°	4039.7	92.7
0°-60°	4336.7	99.6
0°-90°	4356.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4356.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4866	4866	4866	4866	4866	
5°	4852	4841	4830	4827	4830	459
15°	4492	4485	4471	4453	4441	1253
25°	3139	3322	3588	3328	3097	1399
35°	1170	1276	1527	1280	1149	762
45°	318	370	244	360	300	262
55°	36	36	32	35	35	35
65°	12	12	11	12	12	13
75°	4	4	4	4	4	5
85°	1	2	2	2	2	1
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: LD4C55D010 EX4C559027 4LCSQWLI

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4865.7	4865.7	4865.7	4865.7	4865.7
2.5°	4866.8	4859.0	4856.8	4854.6	4859.0
5°	4852.3	4841.1	4830.0	4826.6	4830.0
7.5°	4811.0	4799.8	4780.8	4776.3	4779.7
10°	4733.8	4723.8	4705.9	4695.8	4691.4
12.5°	4632.1	4615.3	4598.6	4587.4	4576.2
15°	4492.4	4484.6	4471.2	4453.3	4441.0
17.5°	4299.0	4310.2	4318.0	4282.2	4249.8
20°	4047.5	4088.9	4135.8	4063.2	4002.8
22.5°	3655.2	3773.7	3893.3	3755.8	3621.6
25°	3138.7	3322.1	3588.1	3327.7	3097.4
27.5°	2536.3	2768.8	3187.9	2769.9	2502.7
30°	1979.6	2218.8	2688.3	2187.5	1932.7
32.5°	1520.2	1699.0	2100.3	1672.2	1487.8
35°	1170.3	1276.5	1526.9	1279.9	1149.1
37.5°	909.9	963.5	1027.2	944.5	883.1
40°	714.3	716.5	661.7	705.3	686.3
42.5°	529.8	527.6	406.9	514.2	517.5
45°	317.5	370.0	243.7	359.9	299.6
47.5°	150.9	209.0	146.4	197.8	139.7
50°	72.7	100.6	88.3	93.9	68.2
52.5°	49.2	51.4	50.3	49.2	46.9
55°	35.8	35.8	32.4	34.7	34.7
57.5°	26.8	26.8	23.5	25.7	25.7
60°	21.2	20.1	17.9	20.1	20.1
62.5°	15.6	15.6	13.4	15.6	15.6
65°	12.3	12.3	11.2	12.3	12.3
67.5°	10.1	10.1	7.8	10.1	8.9
70°	7.8	7.8	6.7	7.8	7.8
72.5°	5.6	5.6	5.6	5.6	5.6
75°	4.5	4.5	4.5	4.5	4.5
77.5°	3.4	3.4	3.4	3.4	3.4
80°	2.2	2.2	3.4	3.4	3.4
82.5°	2.2	2.2	2.2	2.2	2.2
85°	1.1	2.2	2.2	2.2	2.2
87.5°	1.1	1.1	2.2	2.2	2.2
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)