

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: **LD4C75D010 EX4C759050 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: LD4C75D010 EX4C759050 4LCSQWH
Description: 4 INCH 7500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LCSQW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

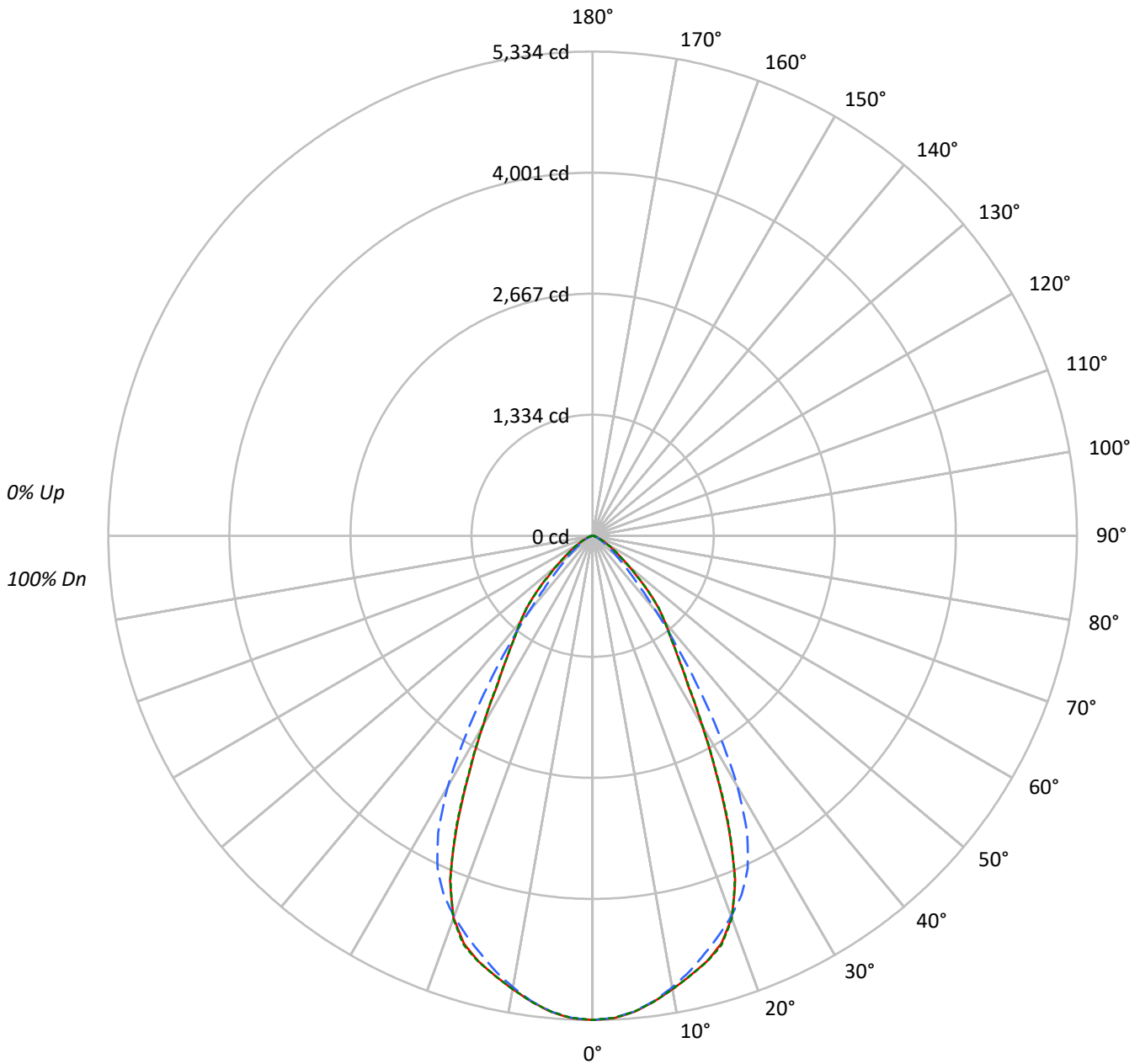
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5645.0 lumens
Efficiency: N/A
Efficacy: 69.3 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): 81.5
Input Voltage (V):
Input Current (A_{in}): 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: LD4C75D010 EX4C759050 4LCSQWH

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: LD4C75D010 EX4C759050 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°	514624	514624	514624
5°	509906	509577	509741
10°	496853	494874	496853
15°	484889	476148	485398
20°	459745	458010	460608
25°	377116	430294	379085
30°	268913	355494	269292
35°	193955	235559	194556
40°	155507	136853	155507
45°	118662	79868	117734
50°	78267	51007	78012
55°	52620	34233	52065
60°	35373	23370	35701
65°	24201	16507	23813
70°	16137	11849	16137
75°	10662	8761	10662
80°	7501	6557	7501
85°	5535	5535	5535



TEST NUMBER: P#

CATALOG NUMBER: LD4C75D010 EX4C759050 4LCSQWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	495.8	8.8
10°-20°	1351.9	23.9
20°-30°	1690.1	29.9
30°-40°	1136.9	20.1
40°-50°	600.3	10.6
50°-60°	244.0	4.3
60°-70°	90.5	1.6
70°-80°	29.2	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°	3537.8	62.7
0°-40°	4674.7	82.8
0°-60°	5519.0	97.8
0°-90°	5645.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5645.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5334	5334	5334	5334	5334	
5°	5264	5260	5261	5261	5263	496
15°	4854	4814	4767	4812	4859	1360
25°	3542	3741	4042	3747	3561	1594
35°	1647	1729	2000	1732	1652	1060
45°	870	826	585	822	863	667
55°	313	262	204	262	310	290
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: LD4C75D010 EX4C759050 4LCSQWH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5333.5	5333.5	5333.5	5333.5	5333.5
2.5°	5320.0	5316.6	5315.0	5315.0	5316.6
5°	5264.5	5259.5	5261.1	5261.1	5262.8
7.5°	5175.4	5173.7	5168.6	5175.4	5175.4
10°	5071.1	5062.7	5050.9	5064.4	5071.1
12.5°	4963.4	4938.2	4918.0	4938.2	4963.4
15°	4854.1	4813.7	4766.6	4812.1	4859.2
17.5°	4711.1	4670.8	4618.6	4679.2	4724.6
20°	4477.4	4480.7	4460.5	4477.4	4485.8
22.5°	4102.3	4178.0	4283.9	4179.6	4090.5
25°	3542.2	3740.7	4041.7	3747.4	3560.7
27.5°	2941.7	3194.0	3686.8	3209.2	2960.2
30°	2413.6	2637.3	3190.7	2652.4	2417.0
32.5°	1954.4	2120.9	2593.6	2141.1	1976.3
35°	1646.6	1729.0	1999.8	1732.4	1651.7
37.5°	1411.2	1411.2	1485.2	1417.9	1404.4
40°	1234.6	1180.7	1086.5	1179.0	1234.6
42.5°	1069.7	989.0	788.8	985.6	1073.1
45°	869.6	825.8	585.3	822.5	862.8
47.5°	667.7	637.5	440.7	634.1	672.8
50°	521.4	474.3	339.8	470.9	519.7
52.5°	400.3	349.8	262.4	349.8	396.9
55°	312.8	262.4	203.5	262.4	309.5
57.5°	240.5	200.2	154.7	196.8	238.8
60°	183.3	149.7	121.1	149.7	185.0
62.5°	139.6	114.4	92.5	112.7	137.9
65°	106.0	85.8	72.3	85.8	104.3
67.5°	77.4	63.9	55.5	63.9	79.1
70°	57.2	48.8	42.0	47.1	57.2
72.5°	42.0	35.3	32.0	35.3	42.0
75°	28.6	25.2	23.5	25.2	28.6
77.5°	20.2	18.5	16.8	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°	5.0	5.0	5.0	5.0	5.0
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)