

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: **LD4C50D010 EX4C509027 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: LD4C50D010 EX4C509027 4LCSQWH
Description: 4 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LCSQW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

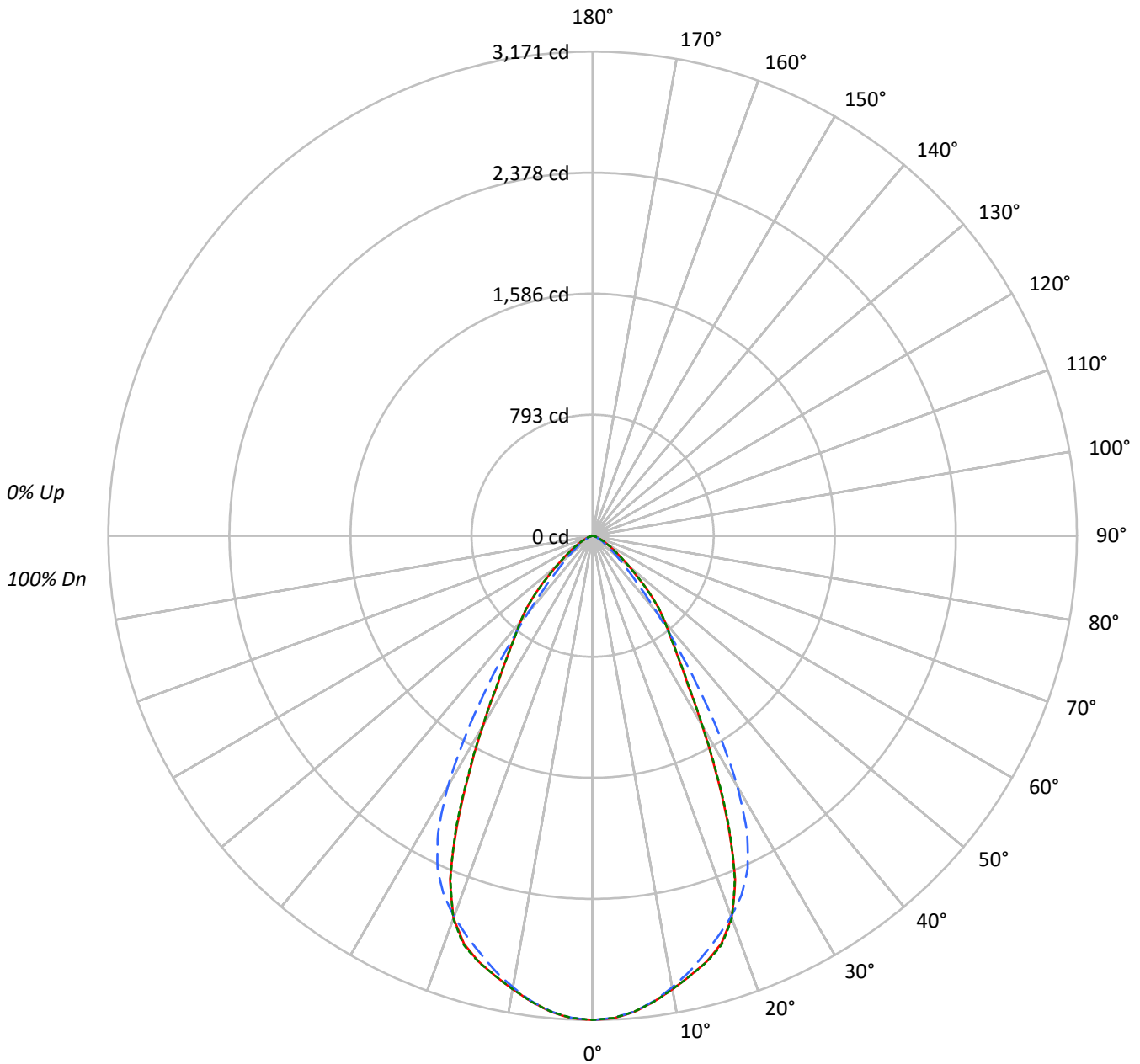
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3356.0 lumens
Efficiency: N/A
Efficacy: 57.5 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): 58.4
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				20				
RC	80				70				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	100	100	100
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92	92	92	92
2	107	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84	84	84	84
3	101	93	88	84	98	92	87	83	89	85	82	87	83	80	85	82	79	77	77	77	77
4	95	87	80	76	93	85	80	75	83	78	74	81	77	74	79	76	73	71	71	71	71
5	89	80	74	69	88	79	73	69	78	72	68	76	71	68	74	70	67	66	66	66	66
6	85	75	68	64	83	74	68	63	72	67	63	71	66	63	70	65	62	61	61	61	61
7	80	70	63	59	79	69	63	59	68	62	58	67	62	58	65	61	58	56	56	56	56
8	76	65	59	55	74	65	59	54	64	58	54	63	58	54	62	57	54	52	52	52	52
9	72	61	55	51	71	61	55	51	60	54	51	59	54	50	58	54	50	49	49	49	49
10	68	58	52	48	67	57	51	47	57	51	47	56	51	47	55	50	47	46	46	46	46

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	305947	305947	305947
5°	303144	302951	303048
10°	295382	294207	295382
15°	288270	283076	288570
20°	273317	272290	273831
25°	224202	255811	225373
30°	159870	211345	160093
35°	115306	140042	115659
40°	92453	81368	92453
45°	70548	47487	70002
50°	46534	30322	46384
55°	31290	20355	30953
60°	21035	13894	21228
65°	14384	9817	14155
70°	9592	7053	9592
75°	6338	5219	6338
80°	4445	3890	4445
85°	3321	3321	3321



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.8	8.8
10°-20°	803.7	23.9
20°-30°	1004.8	29.9
30°-40°	675.9	20.1
40°-50°	356.9	10.6
50°-60°	145.1	4.3
60°-70°	53.8	1.6
70°-80°	17.4	0.5
80°-90°	3.7	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°	2103.2	62.7
0°-40°	2779.1	82.8
0°-60°	3281.1	97.8
0°-90°	3356.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3356.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3171	3171	3171	3171	3171	
5°	3130	3127	3128	3128	3129	295
15°	2886	2862	2834	2861	2889	808
25°	2106	2224	2403	2228	2117	948
35°	979	1028	1189	1030	982	630
45°	517	491	348	489	513	396
55°	186	156	121	156	184	172
65°	63	51	43	51	62	65
75°	17	15	14	15	17	20
85°	3	3	3	3	3	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3170.8	3170.8	3170.8	3170.8	3170.8
2.5°	3162.8	3160.8	3159.8	3159.8	3160.8
5°	3129.8	3126.8	3127.8	3127.8	3128.8
7.5°	3076.8	3075.8	3072.8	3076.8	3076.8
10°	3014.8	3009.8	3002.8	3010.8	3014.8
12.5°	2950.8	2935.8	2923.8	2935.8	2950.8
15°	2885.8	2861.8	2833.8	2860.8	2888.8
17.5°	2800.8	2776.8	2745.8	2781.8	2808.8
20°	2661.8	2663.8	2651.8	2661.8	2666.8
22.5°	2438.8	2483.8	2546.8	2484.8	2431.8
25°	2105.9	2223.9	2402.8	2227.9	2116.9
27.5°	1748.9	1898.9	2191.9	1907.9	1759.9
30°	1434.9	1567.9	1896.9	1576.9	1436.9
32.5°	1161.9	1260.9	1541.9	1272.9	1174.9
35°	978.9	1027.9	1188.9	1029.9	981.9
37.5°	838.9	838.9	882.9	842.9	834.9
40°	734.0	702.0	646.0	701.0	734.0
42.5°	636.0	588.0	469.0	586.0	638.0
45°	517.0	491.0	348.0	489.0	513.0
47.5°	397.0	379.0	262.0	377.0	400.0
50°	310.0	282.0	202.0	280.0	309.0
52.5°	238.0	208.0	156.0	208.0	236.0
55°	186.0	156.0	121.0	156.0	184.0
57.5°	143.0	119.0	92.0	117.0	142.0
60°	109.0	89.0	72.0	89.0	110.0
62.5°	83.0	68.0	55.0	67.0	82.0
65°	63.0	51.0	43.0	51.0	62.0
67.5°	46.0	38.0	33.0	38.0	47.0
70°	34.0	29.0	25.0	28.0	34.0
72.5°	25.0	21.0	19.0	21.0	25.0
75°	17.0	15.0	14.0	15.0	17.0
77.5°	12.0	11.0	10.0	11.0	12.0
80°	8.0	7.0	7.0	8.0	8.0
82.5°	5.0	5.0	5.0	5.0	5.0
85°	3.0	3.0	3.0	3.0	3.0
87.5°	2.0	2.0	2.0	2.0	2.0
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)