

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: **LD4C10D010 EX4C109040 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: LD4C10D010 EX4C109040 4LCSQWH
Description: 4 INCH 1000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LCSQW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

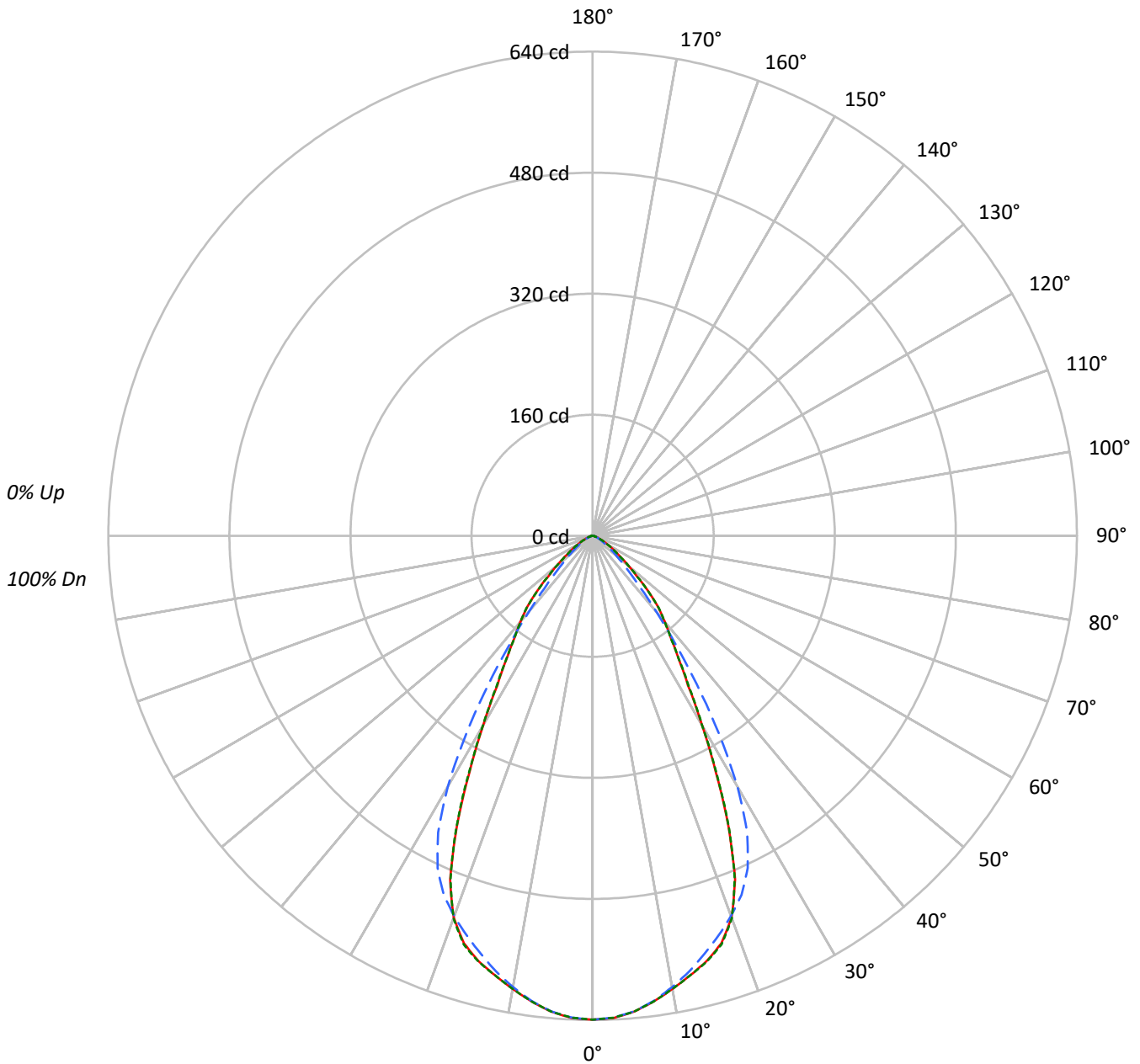
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 677.0 lumens
Efficiency: N/A
Efficacy: 69.1 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): 9.8
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

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Luminous Intensity Polar Plot





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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	61714	61714	61714
5°	61156	61117	61136
10°	59590	59345	59590
15°	58148	57109	58217
20°	55140	54924	55243
25°	45226	51603	45460
30°	32255	42639	32299
35°	23264	28246	23334
40°	18654	16412	18654
45°	14232	9579	14123
50°	9382	6109	9352
55°	6308	4105	6241
60°	4246	2798	4284
65°	2900	1986	2854
70°	1947	1411	1947
75°	1268	1044	1268
80°	889	778	889
85°	664	664	664



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.5	8.8
10°-20°	162.1	23.9
20°-30°	202.7	29.9
30°-40°	136.4	20.1
40°-50°	72.0	10.6
50°-60°	29.3	4.3
60°-70°	10.9	1.6
70°-80°	3.5	0.5
80°-90°	0.7	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°	424.3	62.7
0°-40°	560.6	82.8
0°-60°	661.9	97.8
0°-90°	677.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	677.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	640	640	640	640	640	
5°	631	631	631	631	631	60
15°	582	577	572	577	583	163
25°	425	449	485	449	427	191
35°	198	207	240	208	198	127
45°	104	99	70	99	104	80
55°	38	32	24	32	37	35
65°	13	10	9	10	12	13
75°	3	3	3	3	3	4
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	639.6	639.6	639.6	639.6	639.6
2.5°	638.0	637.6	637.4	637.4	637.6
5°	631.4	630.8	631.0	631.0	631.2
7.5°	620.7	620.5	619.9	620.7	620.7
10°	608.2	607.2	605.7	607.4	608.2
12.5°	595.3	592.2	589.8	592.2	595.3
15°	582.1	577.3	571.7	577.1	582.8
17.5°	565.0	560.2	553.9	561.2	566.6
20°	537.0	537.4	534.9	537.0	538.0
22.5°	492.0	501.1	513.8	501.3	490.6
25°	424.8	448.6	484.7	449.4	427.0
27.5°	352.8	383.1	442.2	384.9	355.0
30°	289.5	316.3	382.7	318.1	289.9
32.5°	234.4	254.4	311.0	256.8	237.0
35°	197.5	207.4	239.8	207.8	198.1
37.5°	169.2	169.2	178.1	170.0	168.4
40°	148.1	141.6	130.3	141.4	148.1
42.5°	128.3	118.6	94.6	118.2	128.7
45°	104.3	99.0	70.2	98.6	103.5
47.5°	80.1	76.4	52.8	76.0	80.7
50°	62.5	56.9	40.7	56.5	62.3
52.5°	48.0	42.0	31.5	42.0	47.6
55°	37.5	31.5	24.4	31.5	37.1
57.5°	28.8	24.0	18.6	23.6	28.6
60°	22.0	18.0	14.5	18.0	22.2
62.5°	16.7	13.7	11.1	13.5	16.5
65°	12.7	10.3	8.7	10.3	12.5
67.5°	9.3	7.7	6.7	7.7	9.5
70°	6.9	5.8	5.0	5.6	6.9
72.5°	5.0	4.2	3.8	4.2	5.0
75°	3.4	3.0	2.8	3.0	3.4
77.5°	2.4	2.2	2.0	2.2	2.4
80°	1.6	1.4	1.4	1.6	1.6
82.5°	1.0	1.0	1.0	1.0	1.0
85°	0.6	0.6	0.6	0.6	0.6
87.5°	0.4	0.4	0.4	0.4	0.4
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)