

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 EX4C089027 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 EX4C089027 4LCSQWH
Description: 4 INCH 800 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS AND 4LCSQW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

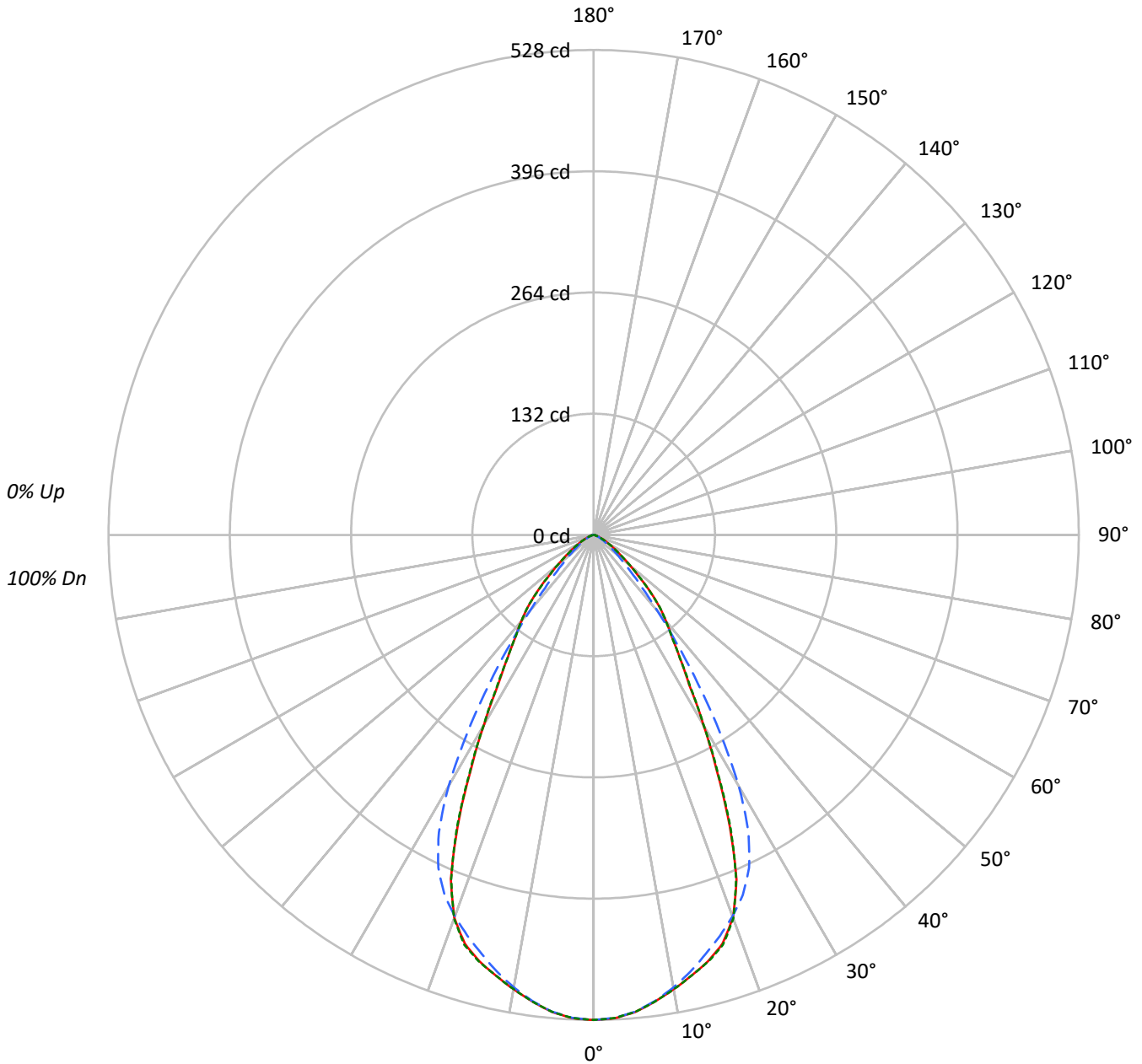
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 559.0 lumens
Efficiency: N/A
Efficacy: 56.5 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): 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

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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°	50956	50956	50956
5°	50492	50463	50482
10°	49204	49008	49204
15°	48018	47149	48068
20°	45529	45354	45611
25°	37347	42607	37539
30°	26628	35207	26662
35°	19212	23323	19271
40°	15405	13553	15405
45°	11749	7914	11653
50°	7746	5044	7731
55°	5215	3398	5148
60°	3512	2316	3531
65°	2397	1644	2352
70°	1608	1185	1608
75°	1044	857	1044
80°	722	667	722
85°	554	554	554



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.1	8.8
10°-20°	133.9	23.9
20°-30°	167.4	29.9
30°-40°	112.6	20.1
40°-50°	59.4	10.6
50°-60°	24.2	4.3
60°-70°	9.0	1.6
70°-80°	2.9	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°	350.3	62.7
0°-40°	462.9	82.8
0°-60°	546.5	97.8
0°-90°	559.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	559.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	528	528	528	528	528	
5°	521	521	521	521	521	49
15°	481	477	472	476	481	135
25°	351	370	400	371	353	158
35°	163	171	198	172	164	105
45°	86	82	58	81	85	66
55°	31	26	20	26	31	29
65°	10	8	7	8	10	11
75°	3	2	2	2	3	3
85°	0	0	0	0	0	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	528.1	528.1	528.1	528.1	528.1
2.5°	526.8	526.5	526.3	526.3	526.5
5°	521.3	520.8	521.0	521.0	521.2
7.5°	512.5	512.3	511.8	512.5	512.5
10°	502.2	501.3	500.2	501.5	502.2
12.5°	491.5	489.0	487.0	489.0	491.5
15°	480.7	476.7	472.0	476.5	481.2
17.5°	466.5	462.5	457.4	463.4	467.9
20°	443.4	443.7	441.7	443.4	444.2
22.5°	406.2	413.7	424.2	413.9	405.1
25°	350.8	370.4	400.2	371.1	352.6
27.5°	291.3	316.3	365.1	317.8	293.1
30°	239.0	261.2	316.0	262.7	239.3
32.5°	193.5	210.0	256.8	212.0	195.7
35°	163.1	171.2	198.0	171.6	163.6
37.5°	139.7	139.7	147.1	140.4	139.1
40°	122.3	116.9	107.6	116.8	122.3
42.5°	105.9	97.9	78.1	97.6	106.3
45°	86.1	81.8	58.0	81.4	85.4
47.5°	66.1	63.1	43.6	62.8	66.6
50°	51.6	47.0	33.6	46.6	51.5
52.5°	39.6	34.6	26.0	34.6	39.3
55°	31.0	26.0	20.2	26.0	30.6
57.5°	23.8	19.8	15.3	19.5	23.7
60°	18.2	14.8	12.0	14.8	18.3
62.5°	13.8	11.3	9.2	11.2	13.7
65°	10.5	8.5	7.2	8.5	10.3
67.5°	7.7	6.3	5.5	6.3	7.8
70°	5.7	4.8	4.2	4.7	5.7
72.5°	4.2	3.5	3.2	3.5	4.2
75°	2.8	2.5	2.3	2.5	2.8
77.5°	2.0	1.8	1.7	1.8	2.0
80°	1.3	1.2	1.2	1.3	1.3
82.5°	0.8	0.8	0.8	0.8	0.8
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)