

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

**Test Information**

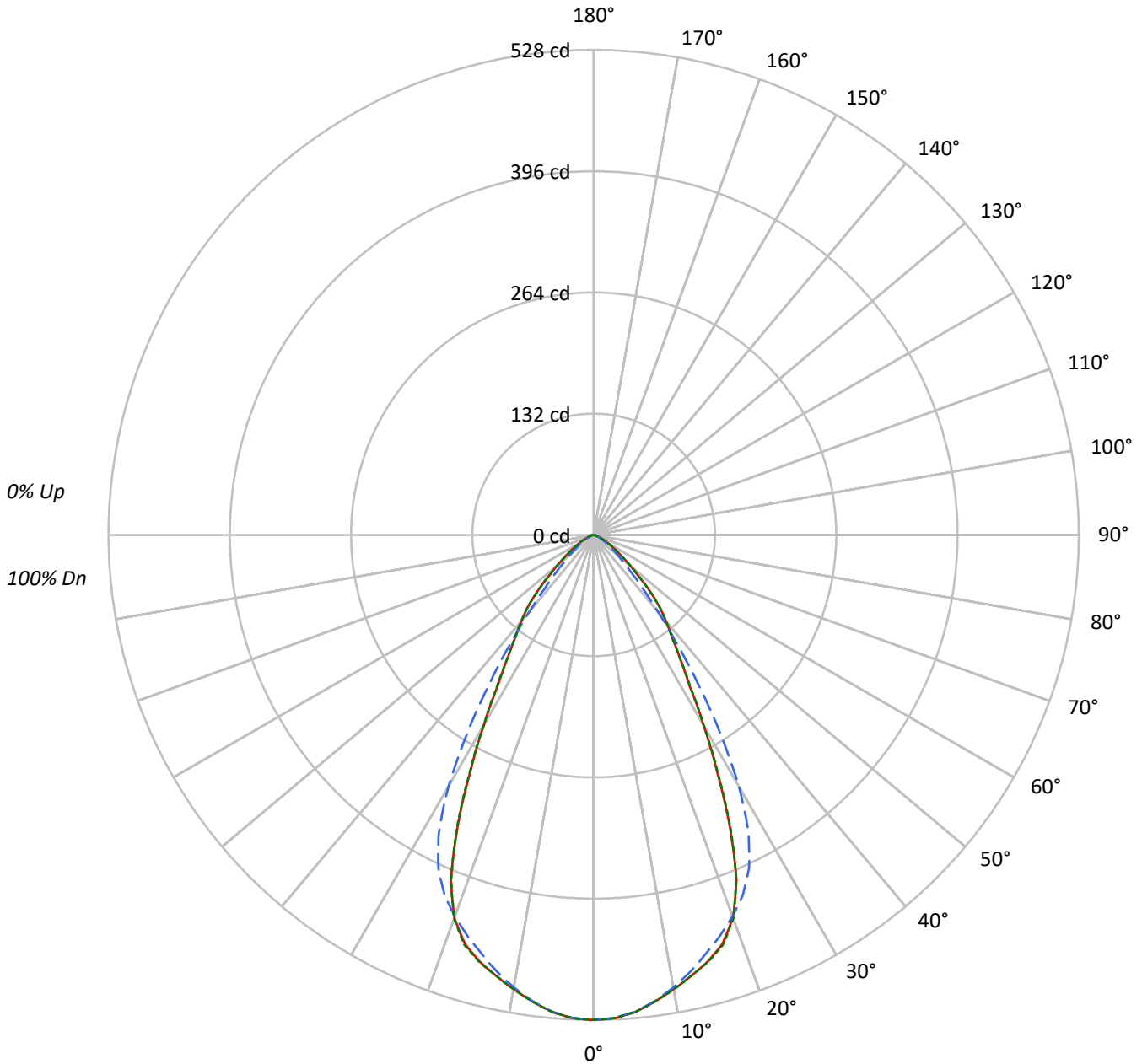
Test Method: LM-79-08  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2105-247-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/18/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD4C08D010 EX4C089027 4LCSQWH  
Description: 4 INCH 800 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS AND 4LCSQW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

**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 (A<sub>in</sub>): 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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CATALOG NUMBER: LD4C08D010 EX4C089027 4LCSQWH

### 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)