

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: P859688

Luminaire Tested: **LD4C08D010 EU4089040 4LBMDSWMW**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859688
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2309-186-3)
Test Lab: INNOVATION CENTER
Issue Date: 4/12/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C08D010 EU4089040 4LBMDSWMW
Description: 4 INCH 800 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS AND 4LBMDSW TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

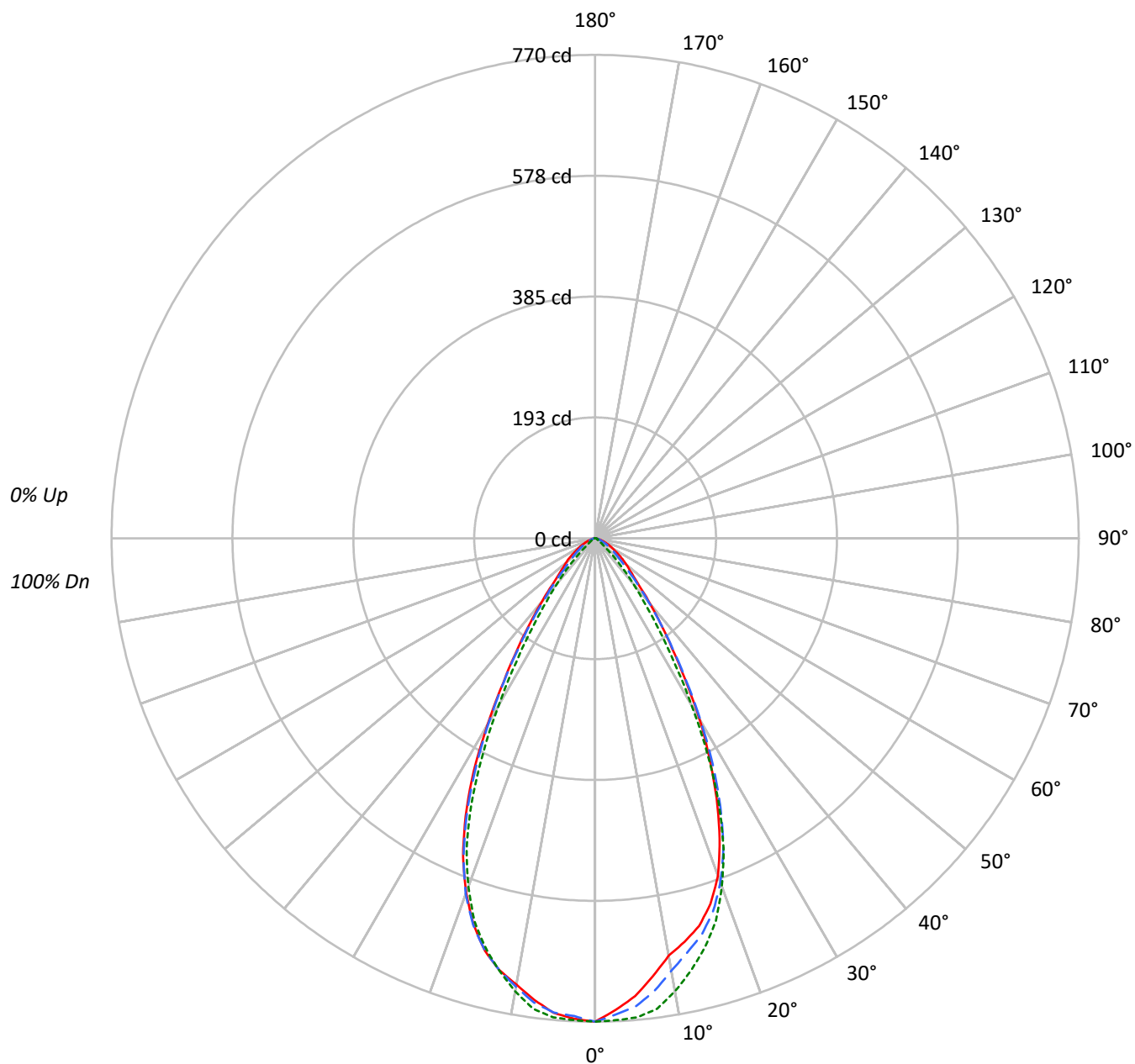
Lumens per Lamp: N/A
Luminaire Lumens: 701.0 lumens
Efficiency: N/A
Efficacy: 70.8 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 9.9
Input Voltage (V): NR
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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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	111	108	105	103	104	102	100	100	99	97	97	95	94	92		
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85		
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78		
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	72		
5	91	82	75	71	89	81	75	71	79	74	70	77	73	69	76	72	69	67		
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62		
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58		
8	77	67	61	57	76	67	61	57	66	60	56	65	60	56	64	59	56	55		
9	74	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	53	51		
10	70	60	54	50	69	60	54	50	59	53	50	58	53	50	57	53	49	48		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	94597	94597	94597
5°	90272	94453	93565
10°	84193	91391	90056
15°	81298	85839	86449
20°	74782	77122	78521
25°	61989	63114	66177
30°	47154	43607	48502
35°	31930	26126	32290
40°	21747	14979	21073
45°	15081	7540	14264
50°	12270	3077	11487
55°	9938	1906	9039
60°	7887	1450	7150
65°	6221	1221	5523
70°	4706	1078	4274
75°	3370	854	3085
80°	2547	849	2122
85°	1692	846	1692



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.8	10.1
10°-20°	186.0	26.5
20°-30°	213.4	30.4
30°-40°	129.7	18.5
40°-50°	55.6	7.9
50°-60°	26.7	3.8
60°-70°	13.0	1.8
70°-80°	4.8	0.7
80°-90°	1.1	0.2
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°	470.2	67.1
0°-40°	599.9	85.6
0°-60°	682.1	97.3
0°-90°	701.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	701.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	770	770	770	770	770	
5°	732	748	766	758	759	68
15°	639	654	675	679	680	178
25°	457	472	466	483	488	207
35°	213	216	174	210	215	136
45°	87	77	43	70	82	71
55°	46	34	9	31	42	42
65°	21	14	4	13	19	22
75°	7	5	2	4	6	8
85°	1	1	1	1	1	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	770.0	770.0	770.0	770.0	770.0	770.0	770.0	770.0	770.0
2.5°	751.6	759.9	759.3	766.5	768.3	766.5	761.7	766.5	765.9
5°	732.0	741.5	748.0	759.9	765.9	764.7	758.1	759.3	758.7
7.5°	703.4	715.3	726.6	744.5	755.8	755.2	745.7	743.9	741.5
10°	674.9	686.2	699.3	717.7	732.6	735.0	725.4	723.1	721.9
12.5°	658.2	667.2	676.1	692.1	705.2	710.0	704.6	705.2	704.6
15°	639.2	648.1	654.1	666.0	674.9	681.4	679.1	682.6	679.7
17.5°	610.7	621.4	623.8	632.7	639.2	643.4	645.8	649.3	644.6
20°	572.0	580.4	583.3	586.9	589.9	595.2	602.4	605.9	600.6
22.5°	517.9	534.0	533.4	531.6	534.6	536.4	547.6	553.6	549.4
25°	457.3	473.9	472.1	465.0	465.6	469.2	483.4	491.2	488.2
27.5°	393.6	409.1	404.9	391.3	387.7	393.0	411.5	420.4	418.6
30°	332.4	342.5	336.0	311.6	307.4	314.0	337.7	346.7	341.9
32.5°	266.4	274.1	271.1	241.4	234.3	240.8	268.8	277.1	271.7
35°	212.9	220.0	215.8	180.8	174.2	181.4	210.5	220.0	215.3
37.5°	170.7	176.0	170.7	133.2	127.2	134.4	162.3	174.8	168.9
40°	135.6	139.7	132.6	98.1	93.4	96.9	123.1	135.6	131.4
42.5°	107.0	110.0	102.3	71.9	66.6	71.4	92.8	104.1	101.7
45°	86.8	86.8	77.3	49.9	43.4	48.2	69.6	81.5	82.1
47.5°	74.3	72.5	60.7	33.3	25.0	31.5	55.3	67.8	69.6
50°	64.2	61.8	49.9	24.4	16.1	22.6	45.8	58.3	60.1
52.5°	55.3	53.5	41.6	19.0	11.3	17.2	38.7	50.5	52.3
55°	46.4	45.2	34.5	14.9	8.9	13.1	30.9	41.0	42.2
57.5°	38.1	36.3	27.9	12.5	7.1	10.7	25.6	33.9	35.1
60°	32.1	30.3	22.6	10.1	5.9	8.3	20.8	27.9	29.1
62.5°	26.8	25.0	18.4	8.3	4.8	7.1	16.6	22.6	23.8
65°	21.4	20.2	14.3	6.5	4.2	5.4	13.1	17.8	19.0
67.5°	17.2	16.1	11.3	5.4	3.6	4.2	10.1	14.3	15.5
70°	13.1	11.9	8.3	4.2	3.0	3.6	7.7	10.7	11.9
72.5°	9.5	8.9	6.5	3.6	2.4	3.0	5.4	7.7	8.9
75°	7.1	6.5	4.8	2.4	1.8	2.4	4.2	5.9	6.5
77.5°	4.8	4.8	3.6	1.8	1.8	1.8	3.0	4.2	4.2
80°	3.6	3.0	2.4	1.2	1.2	1.2	1.8	3.0	3.0
82.5°	2.4	1.8	1.8	1.2	1.2	1.2	1.2	1.8	1.8
85°	1.2	1.2	1.2	0.6	0.6	0.6	0.6	1.2	1.2
87.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
90°	0.0	0.0	0.0	0.0	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)