

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: P859617

Luminaire Tested: **LD4C08D010 EU4089027 4LBMDSWH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859617
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 EU4089027 4LBMDSWH
Description: 4 INCH 800 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS AND 4LBMDSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

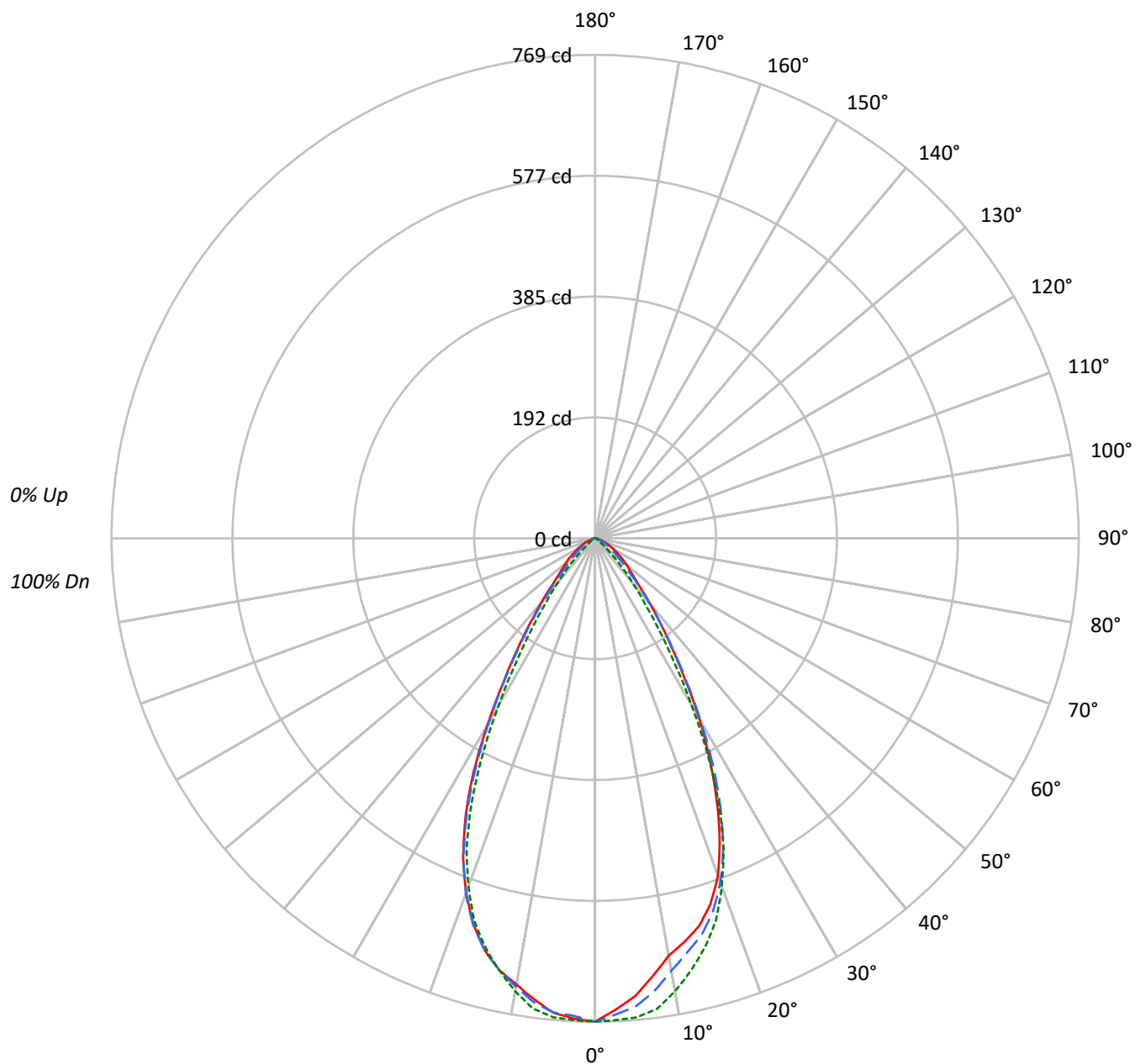
Lumens per Lamp: N/A
Luminaire Lumens: 700.0 lumens
Efficiency: N/A
Efficacy: 70.7 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	94462	94462	94462
5°	90137	94317	93442
10°	84068	91254	89919
15°	81184	85712	86322
20°	74678	77005	78404
25°	61894	63019	66082
30°	47083	43551	48431
35°	31885	26096	32230
40°	21715	14947	21041
45°	15063	7523	14229
50°	12251	3058	11468
55°	9917	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°	70.7	10.1
10°-20°	185.8	26.5
20°-30°	213.1	30.4
30°-40°	129.5	18.5
40°-50°	55.5	7.9
50°-60°	26.6	3.8
60°-70°	12.9	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°	469.6	67.1
0°-40°	599.0	85.6
0°-60°	681.1	97.3
0°-90°	700.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	700.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	769	769	769	769	769	
5°	731	747	765	757	758	68
15°	638	653	674	678	679	178
25°	457	472	465	483	488	207
35°	213	216	174	210	215	136
45°	87	77	43	70	82	70
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°	768.9	768.9	768.9	768.9	768.9	768.9	768.9	768.9	768.9
2.5°	750.5	758.8	758.3	765.4	767.2	765.4	760.6	765.4	764.8
5°	730.9	740.4	747.0	758.8	764.8	763.6	757.1	758.3	757.7
7.5°	702.4	714.3	725.6	743.4	754.7	754.1	744.6	742.8	740.4
10°	673.9	685.2	698.3	716.7	731.5	733.9	724.4	722.0	720.8
12.5°	657.3	666.2	675.1	691.2	704.2	709.0	703.6	704.2	703.6
15°	638.3	647.2	653.2	665.0	673.9	680.5	678.1	681.7	678.7
17.5°	609.8	620.5	622.9	631.8	638.3	642.5	644.8	648.4	643.7
20°	571.2	579.5	582.5	586.1	589.0	594.4	601.5	605.1	599.7
22.5°	517.2	533.2	532.6	530.8	533.8	535.6	546.9	552.8	548.6
25°	456.6	473.2	471.5	464.3	464.9	468.5	482.7	490.5	487.5
27.5°	393.1	408.5	404.4	390.7	387.1	392.5	410.9	419.8	418.0
30°	331.9	342.0	335.5	311.1	307.0	313.5	337.3	346.2	341.4
32.5°	266.0	273.7	270.8	241.1	233.9	240.5	268.4	276.7	271.4
35°	212.6	219.7	215.5	180.5	174.0	181.1	210.2	219.7	214.9
37.5°	170.4	175.8	170.4	133.0	127.1	134.2	162.1	174.6	168.6
40°	135.4	139.5	132.4	98.0	93.2	96.8	122.9	135.4	131.2
42.5°	106.9	109.8	102.1	71.8	66.5	71.3	92.6	103.9	101.5
45°	86.7	86.7	77.2	49.9	43.3	48.1	69.5	81.3	81.9
47.5°	74.2	72.4	60.6	33.3	24.9	31.5	55.2	67.7	69.5
50°	64.1	61.8	49.9	24.3	16.0	22.6	45.7	58.2	60.0
52.5°	55.2	53.4	41.6	19.0	11.3	17.2	38.6	50.5	52.3
55°	46.3	45.1	34.4	14.8	8.9	13.1	30.9	41.0	42.2
57.5°	38.0	36.2	27.9	12.5	7.1	10.7	25.5	33.8	35.0
60°	32.1	30.3	22.6	10.1	5.9	8.3	20.8	27.9	29.1
62.5°	26.7	24.9	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	5.3	13.1	17.8	19.0
67.5°	17.2	16.0	11.3	5.3	3.6	4.2	10.1	14.3	15.4
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	5.3	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)