

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: P859640

Luminaire Tested: **LD4C08D010 EU4089030 4LBMDSWH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859640
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 EU4089030 4LBMDSWH
Description: 4 INCH 800 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS AND 4LBMDSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

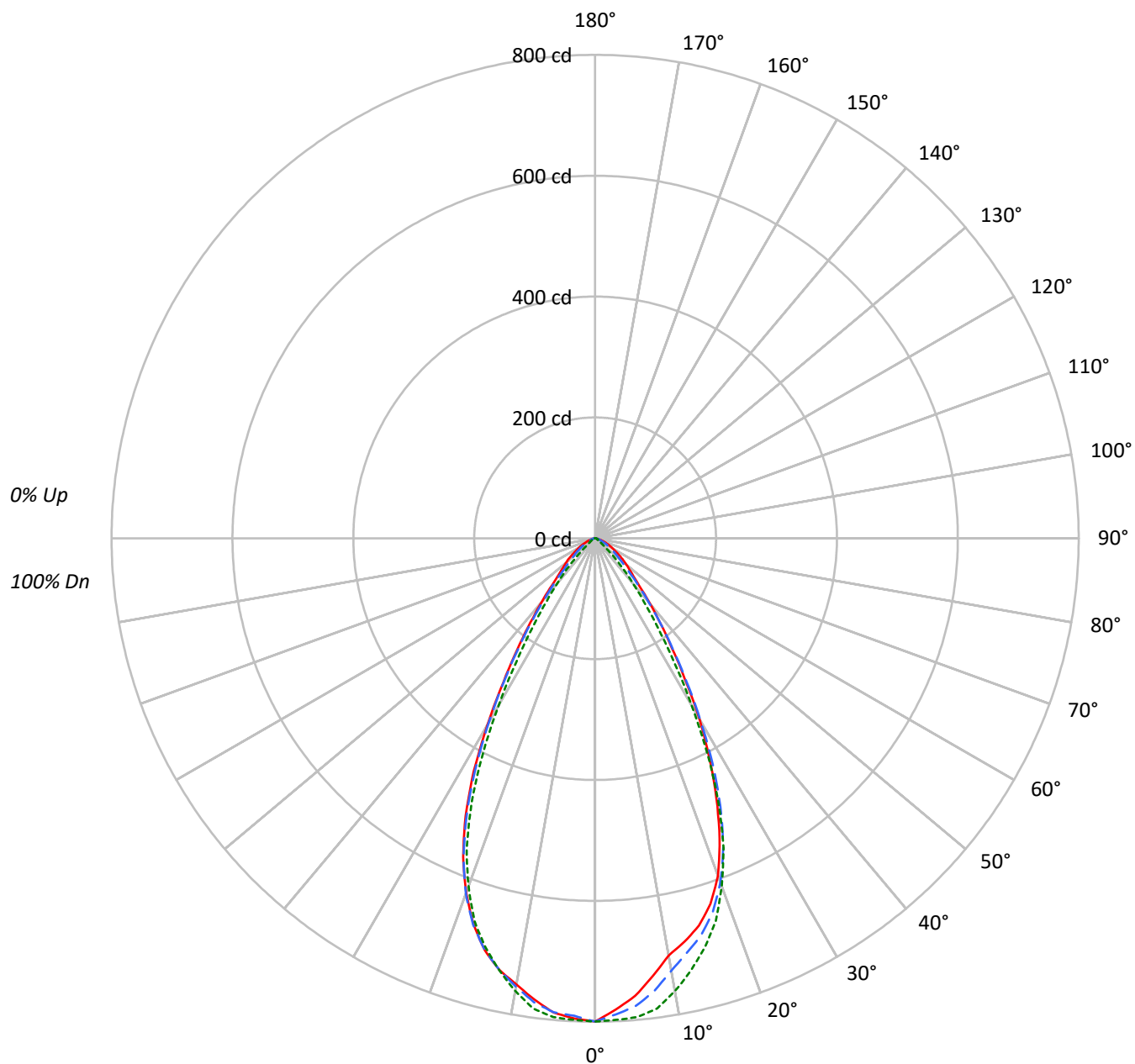
Lumens per Lamp: N/A
Luminaire Lumens: 728.0 lumens
Efficiency: N/A
Efficacy: 73.5 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	98246	98246	98246
5°	93750	98091	97178
10°	87436	94909	93524
15°	84427	89146	89769
20°	77671	80090	81541
25°	64375	65540	68726
30°	48970	45296	50374
35°	33160	27131	33520
40°	22581	15556	21891
45°	15671	7836	14803
50°	12748	3192	11926
55°	10324	1992	9381
60°	8182	1523	7445
65°	6453	1250	5756
70°	4885	1114	4454
75°	3513	902	3228
80°	2618	849	2193
85°	1692	846	1692



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.5	10.1
10°-20°	193.2	26.5
20°-30°	221.6	30.4
30°-40°	134.7	18.5
40°-50°	57.7	7.9
50°-60°	27.7	3.8
60°-70°	13.5	1.8
70°-80°	5.0	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°	488.4	67.1
0°-40°	623.0	85.6
0°-60°	708.4	97.3
0°-90°	728.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	728.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	800	800	800	800	800	
5°	760	777	795	787	788	71
15°	664	679	701	705	706	185
25°	475	490	484	502	507	215
35°	221	224	181	219	224	142
45°	90	80	45	72	85	73
55°	48	36	9	32	44	43
65°	22	15	4	14	20	23
75°	7	5	2	4	7	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°	799.7	799.7	799.7	799.7	799.7	799.7	799.7	799.7	799.7
2.5°	780.6	789.2	788.6	796.0	797.8	796.0	791.1	796.0	795.4
5°	760.2	770.1	776.8	789.2	795.4	794.1	787.3	788.6	788.0
7.5°	730.5	742.9	754.6	773.1	784.9	784.3	774.4	772.5	770.1
10°	700.9	712.6	726.2	745.4	760.8	763.3	753.4	750.9	749.7
12.5°	683.6	692.9	702.1	718.8	732.4	737.3	731.8	732.4	731.8
15°	663.8	673.1	679.3	691.6	700.9	707.7	705.2	708.9	705.8
17.5°	634.2	645.3	647.8	657.0	663.8	668.2	670.6	674.3	669.4
20°	594.1	602.7	605.8	609.5	612.6	618.1	625.6	629.3	623.7
22.5°	537.9	554.5	553.9	552.1	555.2	557.0	568.7	574.9	570.6
25°	474.9	492.2	490.3	482.9	483.5	487.2	502.0	510.1	507.0
27.5°	408.8	424.9	420.5	406.3	402.6	408.2	427.3	436.6	434.7
30°	345.2	355.7	348.9	323.6	319.3	326.1	350.8	360.0	355.1
32.5°	276.7	284.7	281.6	250.7	243.3	250.1	279.1	287.8	282.2
35°	221.1	228.5	224.2	187.7	180.9	188.3	218.6	228.5	223.5
37.5°	177.2	182.8	177.2	138.3	132.2	139.6	168.6	181.6	175.4
40°	140.8	145.1	137.7	101.9	97.0	100.7	127.8	140.8	136.5
42.5°	111.2	114.2	106.2	74.7	69.2	74.1	96.3	108.1	105.6
45°	90.2	90.2	80.3	51.9	45.1	50.0	72.3	84.6	85.2
47.5°	77.2	75.3	63.0	34.6	25.9	32.7	57.4	70.4	72.3
50°	66.7	64.2	51.9	25.3	16.7	23.5	47.5	60.5	62.4
52.5°	57.4	55.6	43.2	19.8	11.7	17.9	40.1	52.5	54.3
55°	48.2	46.9	35.8	15.4	9.3	13.6	32.1	42.6	43.8
57.5°	39.5	37.7	29.0	13.0	7.4	11.1	26.6	35.2	36.4
60°	33.3	31.5	23.5	10.5	6.2	8.6	21.6	29.0	30.3
62.5°	27.8	25.9	19.1	8.6	4.9	7.4	17.3	23.5	24.7
65°	22.2	21.0	14.8	6.8	4.3	5.6	13.6	18.5	19.8
67.5°	17.9	16.7	11.7	5.6	3.7	4.3	10.5	14.8	16.1
70°	13.6	12.4	8.6	4.3	3.1	3.7	8.0	11.1	12.4
72.5°	9.9	9.3	6.8	3.7	2.5	3.1	5.6	8.0	9.3
75°	7.4	6.8	4.9	2.5	1.9	2.5	4.3	6.2	6.8
77.5°	4.9	4.9	3.7	1.9	1.9	1.9	3.1	4.3	4.3
80°	3.7	3.1	2.5	1.2	1.2	1.2	1.9	3.1	3.1
82.5°	2.5	1.9	1.9	1.2	1.2	1.2	1.2	1.9	1.9
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)