

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: P859663

Luminaire Tested: **LD4C08D010 EU4089035 4LBMDSWH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859663
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 EU4089035 4LBMDSWH
Description: 4 INCH 800 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS AND 4LBMDSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

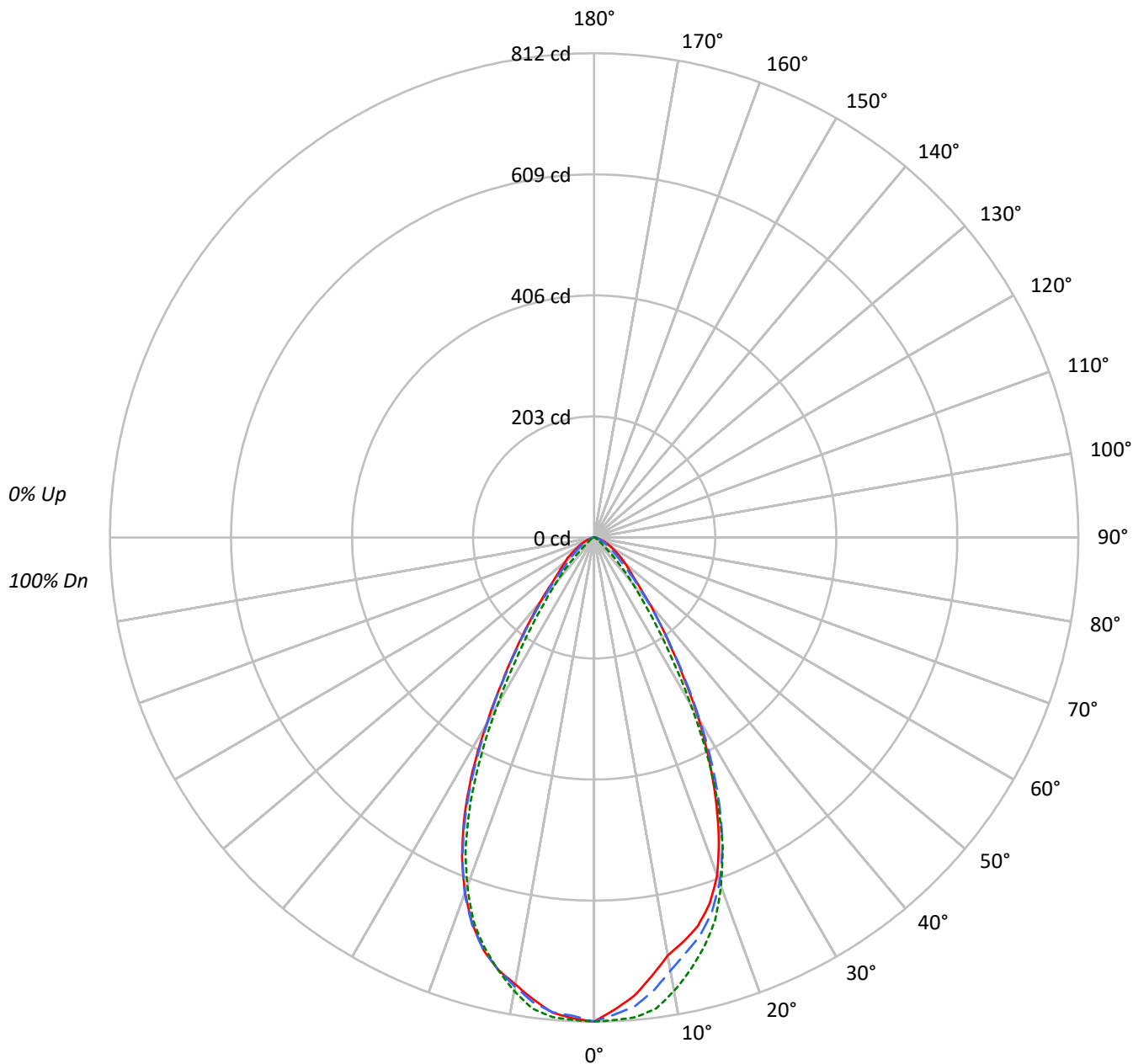
Lumens per Lamp: N/A
Luminaire Lumens: 739.0 lumens
Efficiency: N/A
Efficacy: 74.6 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	99732	99732	99732
5°	95168	99571	98646
10°	88759	96343	94934
15°	85712	90494	91130
20°	78835	81293	82770
25°	65350	66530	69770
30°	49707	45976	51126
35°	33655	27551	34030
40°	22917	15781	22212
45°	15897	7957	15029
50°	12939	3230	12098
55°	10474	2013	9531
60°	8329	1548	7543
65°	6570	1279	5843
70°	4957	1114	4490
75°	3560	902	3275
80°	2688	920	2193
85°	1832	846	1832



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.6	10.1
10°-20°	196.1	26.5
20°-30°	225.0	30.4
30°-40°	136.7	18.5
40°-50°	58.6	7.9
50°-60°	28.1	3.8
60°-70°	13.7	1.8
70°-80°	5.1	0.7
80°-90°	1.2	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°	495.7	67.1
0°-40°	632.4	85.6
0°-60°	719.1	97.3
0°-90°	739.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	739.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	812	812	812	812	812	
5°	772	789	807	799	800	72
15°	674	690	712	716	716	188
25°	482	498	491	510	515	219
35°	224	228	184	222	227	144
45°	92	82	46	73	86	74
55°	49	36	9	33	44	44
65°	23	15	4	14	20	23
75°	8	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°	811.8	811.8	811.8	811.8	811.8	811.8	811.8	811.8	811.8
2.5°	792.3	801.1	800.5	808.0	809.9	808.0	803.0	808.0	807.4
5°	771.7	781.7	788.6	801.1	807.4	806.1	799.2	800.5	799.9
7.5°	741.6	754.1	766.0	784.8	796.7	796.1	786.1	784.2	781.7
10°	711.5	723.4	737.2	756.6	772.3	774.8	764.8	762.3	761.0
12.5°	693.9	703.3	712.7	729.7	743.5	748.5	742.8	743.5	742.8
15°	673.9	683.3	689.5	702.1	711.5	718.4	715.9	719.6	716.5
17.5°	643.8	655.1	657.6	667.0	673.9	678.3	680.8	684.5	679.5
20°	603.0	611.8	614.9	618.7	621.8	627.5	635.0	638.8	633.1
22.5°	546.0	562.9	562.3	560.4	563.5	565.4	577.3	583.6	579.2
25°	482.1	499.6	497.7	490.2	490.8	494.6	509.6	517.8	514.7
27.5°	415.0	431.3	426.9	412.5	408.7	414.4	433.8	443.2	441.3
30°	350.4	361.1	354.2	328.5	324.1	331.0	356.1	365.5	360.4
32.5°	280.8	289.0	285.8	254.5	247.0	253.9	283.3	292.1	286.5
35°	224.4	231.9	227.5	190.6	183.7	191.2	221.9	231.9	226.9
37.5°	179.9	185.5	179.9	140.4	134.1	141.7	171.1	184.3	178.0
40°	142.9	147.3	139.8	103.4	98.4	102.2	129.8	142.9	138.5
42.5°	112.8	116.0	107.8	75.8	70.2	75.2	97.8	109.7	107.2
45°	91.5	91.5	81.5	52.7	45.8	50.8	73.3	85.9	86.5
47.5°	78.4	76.5	63.9	35.1	26.3	33.2	58.3	71.5	73.3
50°	67.7	65.2	52.7	25.7	16.9	23.8	48.3	61.4	63.3
52.5°	58.3	56.4	43.9	20.1	11.9	18.2	40.7	53.3	55.2
55°	48.9	47.6	36.4	15.7	9.4	13.8	32.6	43.3	44.5
57.5°	40.1	38.2	29.5	13.2	7.5	11.3	27.0	35.7	37.0
60°	33.9	32.0	23.8	10.7	6.3	8.8	21.9	29.5	30.7
62.5°	28.2	26.3	19.4	8.8	5.0	7.5	17.6	23.8	25.1
65°	22.6	21.3	15.0	6.9	4.4	5.6	13.8	18.8	20.1
67.5°	18.2	16.9	11.9	5.6	3.8	4.4	10.7	15.0	16.3
70°	13.8	12.5	8.8	4.4	3.1	3.8	8.1	11.3	12.5
72.5°	10.0	9.4	6.9	3.8	2.5	3.1	5.6	8.1	9.4
75°	7.5	6.9	5.0	2.5	1.9	2.5	4.4	6.3	6.9
77.5°	5.0	5.0	3.8	1.9	1.9	1.9	3.1	4.4	4.4
80°	3.8	3.1	2.5	1.3	1.3	1.3	1.9	3.1	3.1
82.5°	2.5	1.9	1.9	1.3	1.3	1.3	1.3	1.9	1.9
85°	1.3	1.3	1.3	0.6	0.6	0.6	0.6	1.3	1.3
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)