

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: P859686

Luminaire Tested: **LD4C08D010 EU4089040 4LBMDSWH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859686
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 4LBMDSWH
Description: 4 INCH 800 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS AND 4LBMDSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

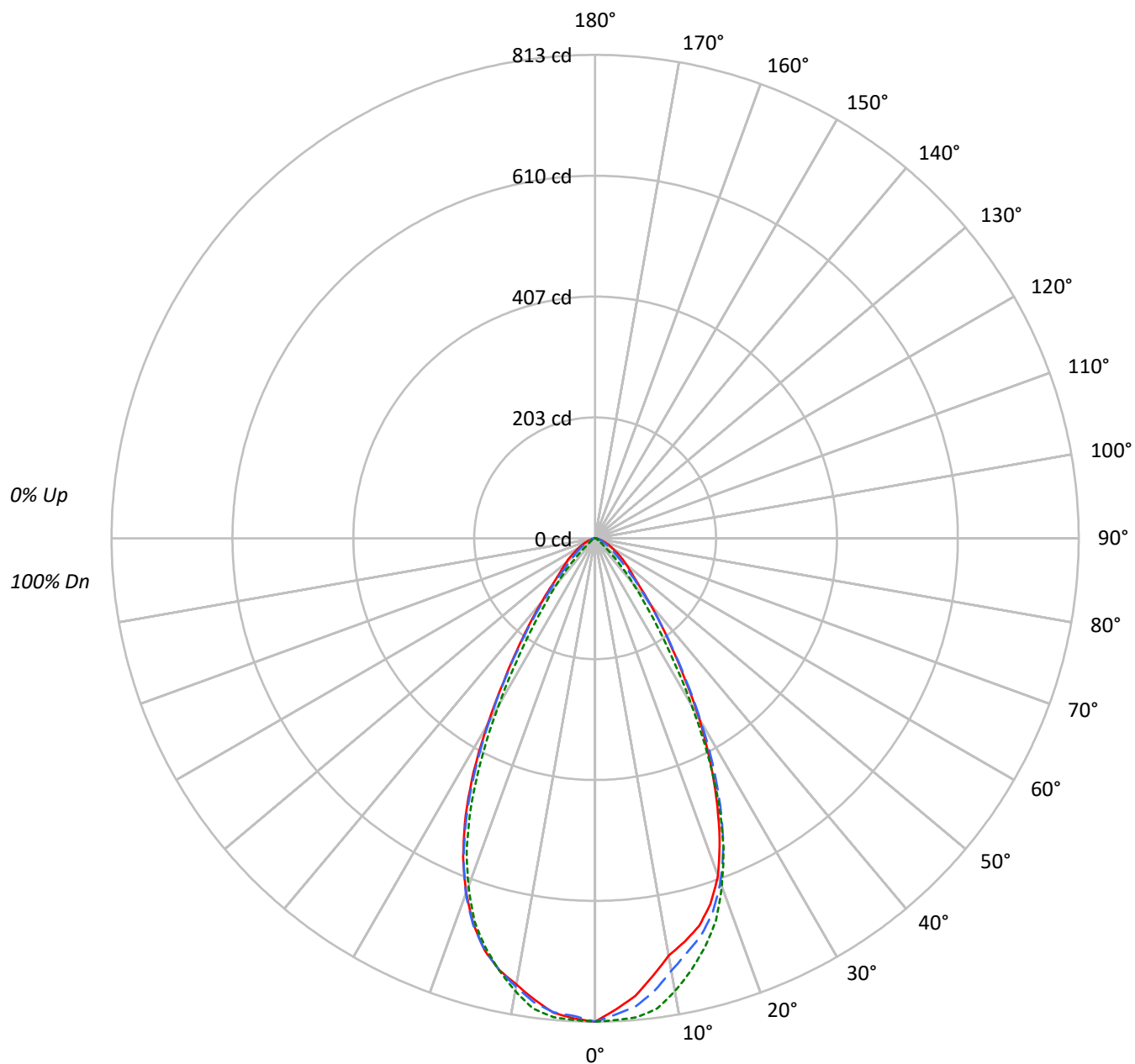
Lumens per Lamp: N/A
Luminaire Lumens: 740.0 lumens
Efficiency: N/A
Efficacy: 74.7 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	113	110	107	105	111	108	105	103		104	102	100		100	99	97		97	95	94
2	107	102	97	94	105	100	96	93		97	93	91		94	91	89		91	89	87
3	101	94	89	85	99	93	88	84		90	86	83		88	84	81		85	83	80
4	96	88	82	77	94	86	81	77		84	80	76		82	78	75		80	77	74
5	91	82	75	71	89	81	75	71		79	74	70		77	73	69		76	72	69
6	86	76	70	66	84	76	70	65		74	69	65		73	68	64		71	67	64
7	81	72	65	61	80	71	65	61		70	64	60		68	64	60		67	63	60
8	77	67	61	57	76	67	61	57		66	60	56		65	60	56		64	59	56
9	74	63	57	53	72	63	57	53		62	57	53		61	56	53		60	56	53
10	70	60	54	50	69	60	54	50		59	53	50		58	53	50		57	53	49

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	99868	99868	99868
5°	95291	99706	98782
10°	88871	96468	95059
15°	85826	90608	91257
20°	78953	81411	82888
25°	65432	66625	69851
30°	49778	46033	51197
35°	33700	27581	34075
40°	22949	15797	22244
45°	15915	7957	15046
50°	12958	3230	12117
55°	10495	2013	9553
60°	8329	1548	7568
65°	6570	1279	5843
70°	4957	1114	4526
75°	3560	902	3275
80°	2688	920	2193
85°	1832	846	1832



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.7	10.1
10°-20°	196.4	26.5
20°-30°	225.3	30.4
30°-40°	136.9	18.5
40°-50°	58.7	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°	496.4	67.1
0°-40°	633.3	85.6
0°-60°	720.1	97.3
0°-90°	740.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	740.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	813	813	813	813	813	
5°	773	790	808	800	801	72
15°	675	690	712	717	718	188
25°	483	498	492	510	515	219
35°	225	228	184	222	227	144
45°	92	82	46	73	87	74
55°	49	36	9	33	45	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°	812.9	812.9	812.9	812.9	812.9	812.9	812.9	812.9	812.9
2.5°	793.4	802.2	801.6	809.1	811.0	809.1	804.1	809.1	808.5
5°	772.7	782.7	789.7	802.2	808.5	807.2	800.3	801.6	801.0
7.5°	742.6	755.1	767.1	785.9	797.8	797.2	787.1	785.3	782.7
10°	712.4	724.4	738.2	757.6	773.3	775.8	765.8	763.3	762.0
12.5°	694.9	704.3	713.7	730.6	744.5	749.5	743.8	744.5	743.8
15°	674.8	684.2	690.5	703.0	712.4	719.4	716.8	720.6	717.5
17.5°	644.7	656.0	658.5	667.9	674.8	679.2	681.7	685.5	680.4
20°	603.9	612.6	615.8	619.5	622.7	628.3	635.9	639.6	634.0
22.5°	546.7	563.7	563.1	561.2	564.3	566.2	578.1	584.4	580.0
25°	482.7	500.3	498.4	490.9	491.5	495.3	510.3	518.5	515.3
27.5°	415.5	431.9	427.5	413.0	409.3	414.9	434.4	443.8	441.9
30°	350.9	361.6	354.7	328.9	324.5	331.4	356.5	366.0	360.9
32.5°	281.2	289.4	286.2	254.8	247.3	254.2	283.7	292.5	286.9
35°	224.7	232.3	227.9	190.8	183.9	191.5	222.2	232.3	227.2
37.5°	180.2	185.8	180.2	140.6	134.3	141.9	171.4	184.5	178.3
40°	143.1	147.5	140.0	103.6	98.5	102.3	129.9	143.1	138.7
42.5°	113.0	116.1	108.0	76.0	70.3	75.3	97.9	109.8	107.3
45°	91.6	91.6	81.6	52.7	45.8	50.8	73.4	86.0	86.6
47.5°	78.5	76.6	64.0	35.2	26.4	33.3	58.4	71.6	73.4
50°	67.8	65.3	52.7	25.7	16.9	23.9	48.3	61.5	63.4
52.5°	58.4	56.5	43.9	20.1	11.9	18.2	40.8	53.4	55.2
55°	49.0	47.7	36.4	15.7	9.4	13.8	32.6	43.3	44.6
57.5°	40.2	38.3	29.5	13.2	7.5	11.3	27.0	35.8	37.0
60°	33.9	32.0	23.9	10.7	6.3	8.8	22.0	29.5	30.8
62.5°	28.2	26.4	19.5	8.8	5.0	7.5	17.6	23.9	25.1
65°	22.6	21.3	15.1	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	15.1	16.3
70°	13.8	12.6	8.8	4.4	3.1	3.8	8.2	11.3	12.6
72.5°	10.0	9.4	6.9	3.8	2.5	3.1	5.6	8.2	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)