

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: P859643

Luminaire Tested: **LD4C08D010 EU4089030 4LBMDSWWH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859643
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 4LBMDSWWH
Description: 4 INCH 800 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS AND 4LBMDSW TRIM WITH WH FINISH
Light Source: -
Ballast/Driver: -

Summary

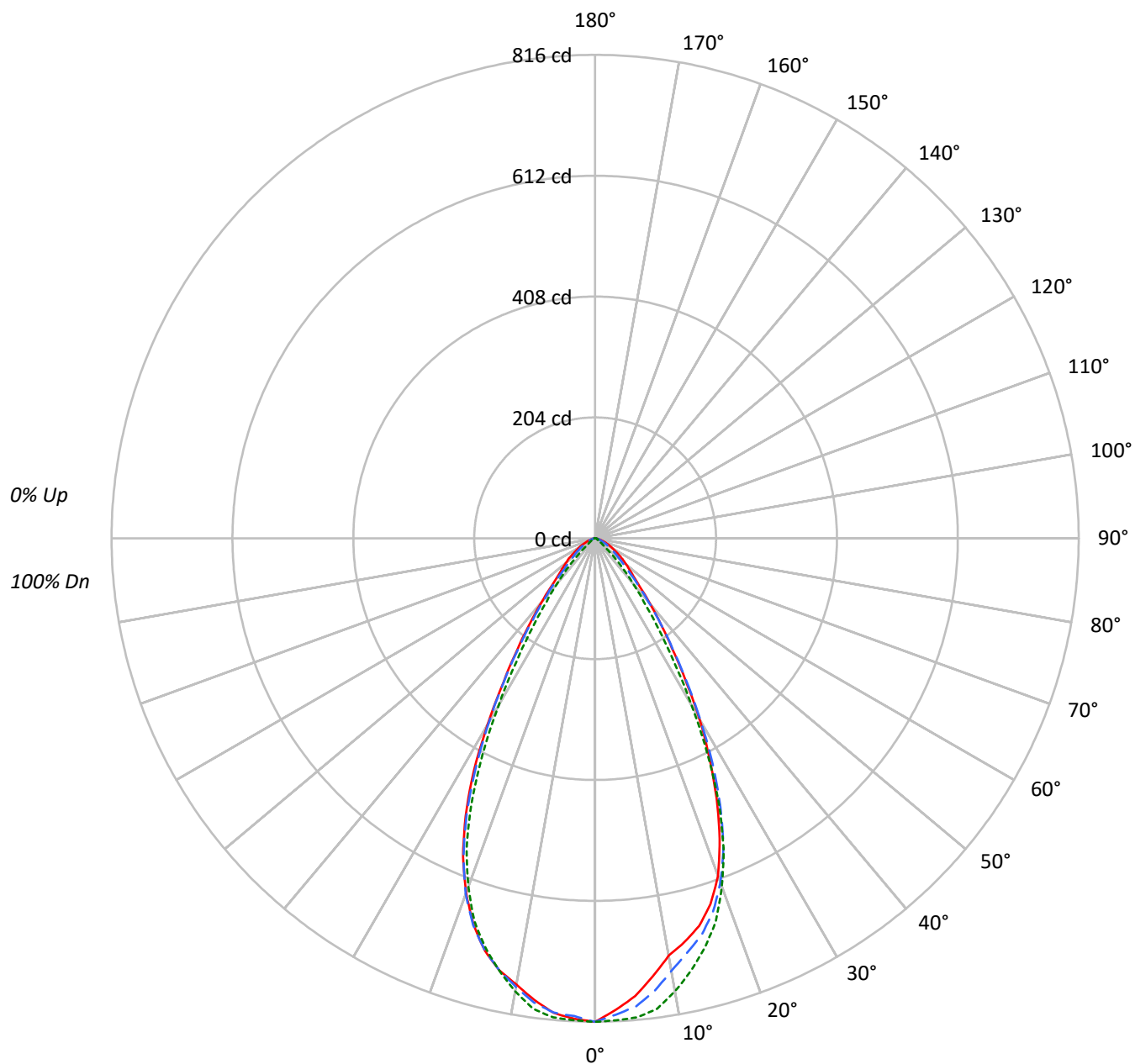
Lumens per Lamp: N/A
Luminaire Lumens: 743.0 lumens
Efficiency: N/A
Efficacy: 75.1 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	100273	100273	100273
5°	95674	100113	99176
10°	89233	96867	95445
15°	86169	90977	91626
20°	79266	81737	83228
25°	65703	66896	70136
30°	49977	46218	51410
35°	33835	27701	34225
40°	23046	15861	22340
45°	15984	7992	15115
50°	13016	3249	12175
55°	10538	2035	9574
60°	8354	1548	7592
65°	6599	1279	5872
70°	4993	1149	4526
75°	3607	902	3275
80°	2688	920	2264
85°	1832	846	1832



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.0	10.1
10°-20°	197.2	26.5
20°-30°	226.2	30.4
30°-40°	137.4	18.5
40°-50°	58.9	7.9
50°-60°	28.3	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°	498.4	67.1
0°-40°	635.8	85.6
0°-60°	723.0	97.3
0°-90°	743.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	743.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	816	816	816	816	816	
5°	776	793	812	804	804	72
15°	678	693	715	720	720	189
25°	485	500	494	512	517	220
35°	226	229	185	223	228	145
45°	92	82	46	74	87	75
55°	49	37	10	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	



TEST NUMBER: P859643

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	816.2	816.2	816.2	816.2	816.2	816.2	816.2	816.2	816.2
2.5°	796.6	805.5	804.8	812.4	814.3	812.4	807.4	812.4	811.8
5°	775.8	785.9	792.9	805.5	811.8	810.5	803.6	804.8	804.2
7.5°	745.6	758.2	770.2	789.1	801.0	800.4	790.3	788.4	785.9
10°	715.3	727.3	741.2	760.7	776.5	779.0	768.9	766.4	765.1
12.5°	697.7	707.1	716.6	733.6	747.5	752.5	746.8	747.5	746.8
15°	677.5	687.0	693.3	705.9	715.3	722.3	719.7	723.5	720.4
17.5°	647.3	658.6	661.1	670.6	677.5	681.9	684.5	688.2	683.2
20°	606.3	615.1	618.3	622.1	625.2	630.9	638.4	642.2	636.6
22.5°	548.9	566.0	565.3	563.4	566.6	568.5	580.5	586.8	582.4
25°	484.7	502.3	500.4	492.9	493.5	497.3	512.4	520.6	517.4
27.5°	417.2	433.6	429.2	414.7	410.9	416.6	436.1	445.6	443.7
30°	352.3	363.0	356.1	330.3	325.8	332.8	358.0	367.4	362.4
32.5°	282.4	290.5	287.4	255.9	248.3	255.3	284.9	293.7	288.0
35°	225.6	233.2	228.8	191.6	184.7	192.2	223.1	233.2	228.2
37.5°	180.9	186.6	180.9	141.2	134.9	142.4	172.1	185.3	179.0
40°	143.7	148.1	140.5	104.0	98.9	102.7	130.5	143.7	139.3
42.5°	113.4	116.6	108.4	76.3	70.6	75.6	98.3	110.3	107.8
45°	92.0	92.0	81.9	52.9	46.0	51.1	73.7	86.3	87.0
47.5°	78.8	76.9	64.3	35.3	26.5	33.4	58.6	71.8	73.7
50°	68.1	65.5	52.9	25.8	17.0	23.9	48.5	61.8	63.7
52.5°	58.6	56.7	44.1	20.2	12.0	18.3	41.0	53.6	55.5
55°	49.2	47.9	36.6	15.8	9.5	13.9	32.8	43.5	44.7
57.5°	40.3	38.4	29.6	13.2	7.6	11.3	27.1	35.9	37.2
60°	34.0	32.1	23.9	10.7	6.3	8.8	22.1	29.6	30.9
62.5°	28.4	26.5	19.5	8.8	5.0	7.6	17.6	23.9	25.2
65°	22.7	21.4	15.1	6.9	4.4	5.7	13.9	18.9	20.2
67.5°	18.3	17.0	12.0	5.7	3.8	4.4	10.7	15.1	16.4
70°	13.9	12.6	8.8	4.4	3.2	3.8	8.2	11.3	12.6
72.5°	10.1	9.5	6.9	3.8	2.5	3.2	5.7	8.2	9.5
75°	7.6	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	3.2	4.4	4.4
80°	3.8	3.2	2.5	1.3	1.3	1.3	1.9	3.2	3.2
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)