

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: P859707

Luminaire Tested: **LD4C08D010 EU4089050 4LBMDDWLI**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859707
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 EU4089050 4LBMDDWLI
Description: 4 INCH 800 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS AND 4LBMDDW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

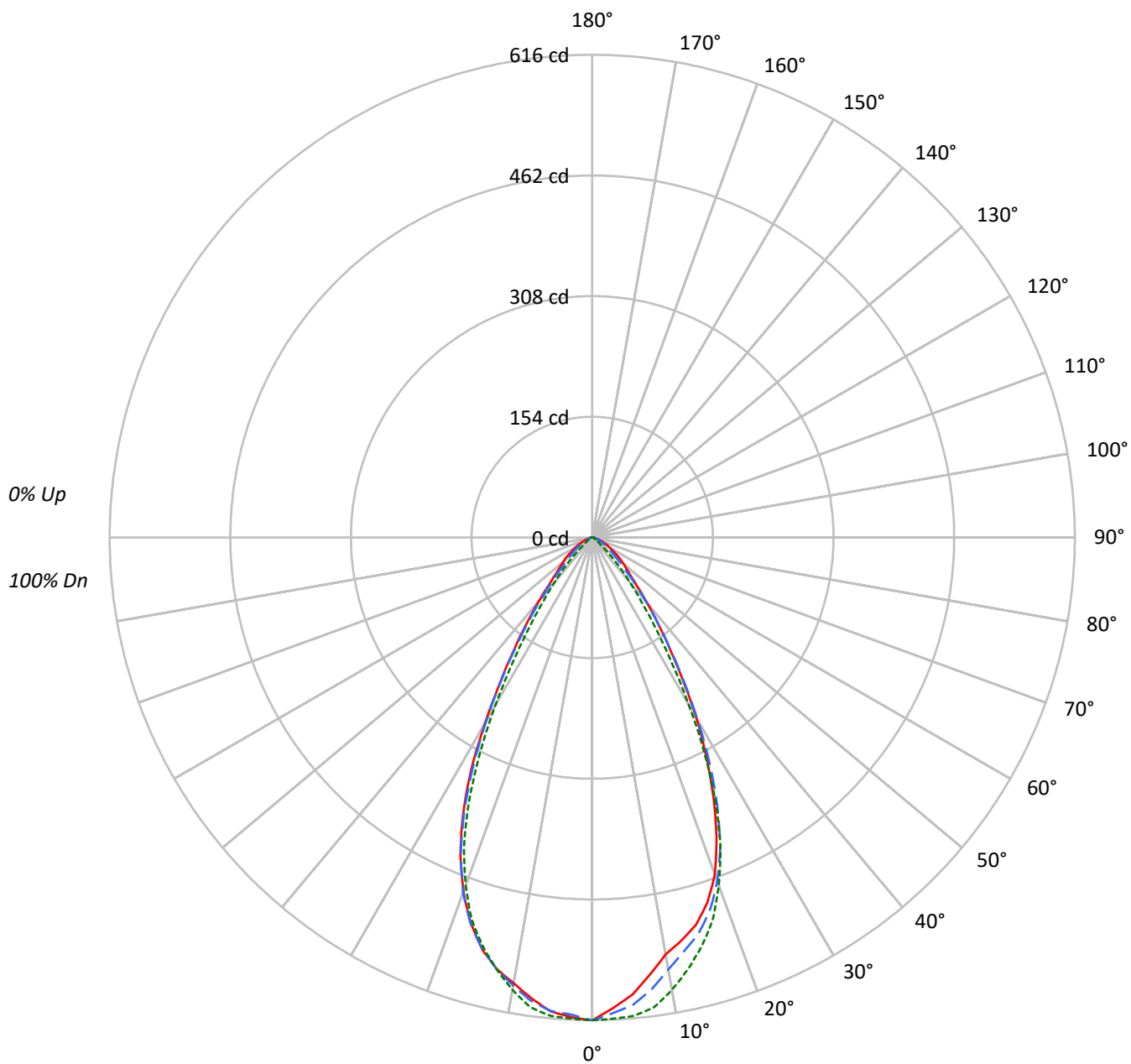
Lumens per Lamp: N/A
Luminaire Lumens: 561.0 lumens
Efficiency: N/A
Efficacy: 56.7 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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
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°	75715	75715	75715
5°	72242	75585	74882
10°	67377	73140	72067
15°	65069	68694	69177
20°	59852	61721	62833
25°	49599	50507	52961
30°	37734	34897	38813
35°	25556	20907	25841
40°	17401	11980	16871
45°	12075	6029	11415
50°	9824	2446	9193
55°	7946	1521	7240
60°	6315	1179	5725
65°	4971	959	4419
70°	3772	862	3412
75°	2706	665	2468
80°	2052	707	1698
85°	1410	705	1410



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.7	10.1
10°-20°	148.9	26.5
20°-30°	170.8	30.4
30°-40°	103.8	18.5
40°-50°	44.5	7.9
50°-60°	21.3	3.8
60°-70°	10.4	1.8
70°-80°	3.8	0.7
80°-90°	0.9	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°	376.3	67.1
0°-40°	480.1	85.6
0°-60°	545.9	97.3
0°-90°	561.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	561.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	616	616	616	616	616	
5°	586	599	613	607	607	54
15°	512	524	540	543	544	142
25°	366	378	373	387	391	166
35°	170	173	139	168	172	109
45°	70	62	35	56	66	56
55°	37	28	7	25	34	34
65°	17	11	3	10	15	17
75°	6	4	1	3	5	6
85°	1	1	0	0	1	1
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°	616.3	616.3	616.3	616.3	616.3	616.3	616.3	616.3	616.3
2.5°	601.5	608.2	607.7	613.4	614.8	613.4	609.6	613.4	612.9
5°	585.8	593.4	598.6	608.2	612.9	612.0	606.7	607.7	607.2
7.5°	563.0	572.5	581.5	595.8	604.8	604.4	596.7	595.3	593.4
10°	540.1	549.2	559.6	574.4	586.3	588.2	580.6	578.7	577.7
12.5°	526.8	533.9	541.1	553.9	564.4	568.2	563.9	564.4	563.9
15°	511.6	518.7	523.5	533.0	540.1	545.3	543.4	546.3	543.9
17.5°	488.7	497.3	499.2	506.3	511.6	514.9	516.8	519.6	515.8
20°	457.8	464.4	466.8	469.7	472.1	476.3	482.1	484.9	480.6
22.5°	414.5	427.3	426.9	425.4	427.8	429.2	438.3	443.0	439.7
25°	365.9	379.3	377.8	372.1	372.6	375.5	386.9	393.1	390.7
27.5°	315.0	327.4	324.1	313.1	310.3	314.5	329.3	336.4	335.0
30°	266.0	274.1	268.9	249.4	246.0	251.3	270.3	277.4	273.6
32.5°	213.2	219.4	217.0	193.2	187.5	192.7	215.1	221.8	217.5
35°	170.4	176.1	172.7	144.7	139.4	145.1	168.5	176.1	172.3
37.5°	136.6	140.9	136.6	106.6	101.8	107.5	129.9	139.9	135.1
40°	108.5	111.8	106.1	78.5	74.7	77.6	98.5	108.5	105.2
42.5°	85.7	88.0	81.8	57.6	53.3	57.1	74.2	83.3	81.4
45°	69.5	69.5	61.9	40.0	34.7	38.5	55.7	65.2	65.7
47.5°	59.5	58.1	48.5	26.6	20.0	25.2	44.3	54.2	55.7
50°	51.4	49.5	40.0	19.5	12.8	18.1	36.6	46.6	48.1
52.5°	44.3	42.8	33.3	15.2	9.0	13.8	30.9	40.4	41.9
55°	37.1	36.2	27.6	11.9	7.1	10.5	24.7	32.8	33.8
57.5°	30.5	29.0	22.4	10.0	5.7	8.6	20.5	27.1	28.1
60°	25.7	24.3	18.1	8.1	4.8	6.7	16.7	22.4	23.3
62.5°	21.4	20.0	14.8	6.7	3.8	5.7	13.3	18.1	19.0
65°	17.1	16.2	11.4	5.2	3.3	4.3	10.5	14.3	15.2
67.5°	13.8	12.8	9.0	4.3	2.9	3.3	8.1	11.4	12.4
70°	10.5	9.5	6.7	3.3	2.4	2.9	6.2	8.6	9.5
72.5°	7.6	7.1	5.2	2.9	1.9	2.4	4.3	6.2	7.1
75°	5.7	5.2	3.8	1.9	1.4	1.9	3.3	4.8	5.2
77.5°	3.8	3.8	2.9	1.4	1.4	1.4	2.4	3.3	3.3
80°	2.9	2.4	1.9	1.0	1.0	1.0	1.4	2.4	2.4
82.5°	1.9	1.4	1.4	1.0	1.0	1.0	1.0	1.4	1.4
85°	1.0	1.0	1.0	0.5	0.5	0.5	0.5	1.0	1.0
87.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
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)