

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: P859618

Luminaire Tested: **LD4C08D010 EU4089027 4LBMDSWLI**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859618
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2309-186-1)
Test Lab: INNOVATION CENTER
Issue Date: 4/12/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C08D010 EU4089027 4LBMDSWLI
Description: 4 INCH 800 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS AND 4LBMDSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

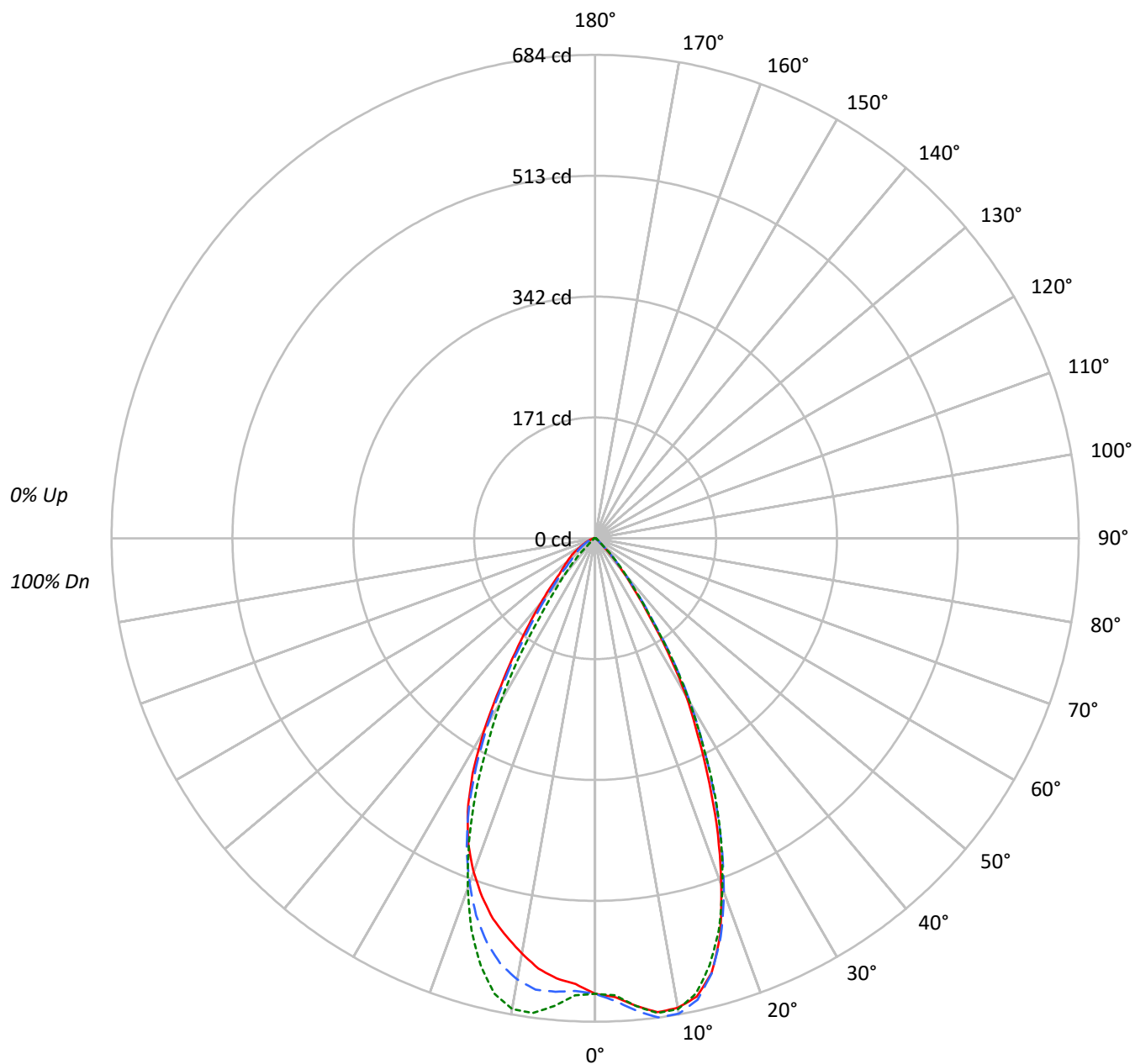
Lumens per Lamp: N/A
Luminaire Lumens: 573.0 lumens
Efficiency: N/A
Efficacy: 57.9 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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	111	108	106	111	108	106	104		104	103	101		101	99	98		97	96	95
2	108	103	99	95	105	101	97	94		98	95	92		95	92	90		92	90	88
3	102	96	91	87	100	94	90	86		92	88	85		89	86	83		87	84	82
4	97	89	84	80	95	88	83	79		86	82	78		84	80	77		82	79	76
5	92	84	78	74	91	83	77	73		81	76	73		79	75	72		78	74	71
6	88	79	73	68	86	78	72	68		76	71	68		75	71	67		74	70	67
7	83	74	68	64	82	73	68	64		72	67	63		71	66	63		70	66	63
8	79	70	64	60	78	69	64	60		68	63	59		67	63	59		66	62	59
9	76	66	60	56	75	66	60	56		65	60	56		64	59	56		63	59	56
10	72	63	57	53	71	62	57	53		61	56	53		61	56	53		60	56	52

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	79179	79179	79179
5°	81874	81923	77089
10°	84143	84368	74400
15°	80967	79556	70920
20°	68167	68807	65696
25°	51782	54411	57827
30°	36415	37919	44487
35°	19647	20577	29440
40°	9478	10472	19101
45°	3371	4604	12422
50°	1261	1605	9958
55°	942	1135	8225
60°	762	860	5971
65°	640	756	4622
70°	467	647	3628
75°	427	617	2706
80°	283	637	1839
85°	0	564	1269



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.8	11.0
10°-20°	169.3	29.5
20°-30°	183.6	32.0
30°-40°	101.9	17.8
40°-50°	32.5	5.7
50°-60°	13.1	2.3
60°-70°	6.6	1.2
70°-80°	2.7	0.5
80°-90°	0.6	0.1
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°	415.7	72.5
0°-40°	517.5	90.3
0°-60°	563.1	98.3
0°-90°	573.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	573.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	644	644	644	644	644	
5°	664	671	664	644	625	64
15°	637	637	626	592	558	174
25°	382	398	401	423	427	174
35°	131	142	137	181	196	87
45°	19	23	26	59	72	19
55°	4	4	5	28	38	4
65°	2	2	3	13	16	2
75°	1	1	1	4	6	1
85°	0	0	0	1	1	0
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°	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5
2.5°	649.8	655.5	655.1	650.7	647.1	645.8	641.0	635.2	631.3
5°	663.9	671.0	671.0	667.4	664.3	656.8	644.1	631.7	625.1
7.5°	676.3	683.3	683.8	681.1	677.6	665.2	644.1	624.2	614.1
10°	674.5	679.8	682.9	680.2	676.3	659.9	633.9	607.4	596.4
12.5°	664.3	669.2	668.8	664.8	659.5	642.7	617.1	589.8	577.4
15°	636.6	639.2	637.0	632.6	625.5	612.7	592.0	568.6	557.6
17.5°	588.5	592.0	591.1	584.1	581.4	569.1	559.4	541.3	531.6
20°	521.4	532.4	532.4	527.2	526.3	517.9	519.2	509.5	502.5
22.5°	453.9	463.6	466.7	464.5	466.3	462.3	474.7	472.0	468.5
25°	382.0	391.7	397.9	397.0	401.4	401.4	423.0	428.3	426.6
27.5°	314.5	323.8	330.9	332.6	330.0	334.8	364.4	375.0	375.0
30°	256.7	264.2	270.9	270.9	267.3	270.9	302.2	314.5	313.6
32.5°	191.5	199.8	206.0	205.1	202.0	206.9	240.0	252.3	249.2
35°	131.0	136.8	141.6	139.8	137.2	145.1	181.3	196.7	196.3
37.5°	88.7	94.0	97.0	95.7	94.8	104.1	137.2	154.4	153.5
40°	59.1	62.6	64.8	64.4	65.3	73.2	103.2	119.1	119.1
42.5°	37.5	39.7	41.9	41.9	44.1	52.5	78.5	92.2	92.2
45°	19.4	20.7	22.9	24.3	26.5	35.3	59.1	70.6	71.5
47.5°	9.3	9.7	10.6	11.0	12.8	22.1	45.4	57.8	60.4
50°	6.6	7.1	7.1	7.1	8.4	16.8	38.4	49.8	52.1
52.5°	5.3	5.3	5.3	5.7	6.6	14.1	33.1	43.2	45.0
55°	4.4	4.4	4.4	4.4	5.3	11.5	28.2	37.1	38.4
57.5°	3.5	3.5	3.5	3.5	4.4	9.3	23.4	29.6	30.0
60°	3.1	3.1	3.1	3.1	3.5	7.9	19.0	24.3	24.3
62.5°	2.6	2.6	2.6	2.6	3.1	6.6	15.9	19.9	19.4
65°	2.2	2.2	2.2	2.2	2.6	5.3	12.8	15.9	15.9
67.5°	1.8	1.8	1.8	1.8	2.2	4.4	10.1	12.8	12.8
70°	1.3	1.3	1.3	1.3	1.8	3.5	8.4	10.1	10.1
72.5°	1.3	1.3	1.3	1.3	1.3	2.6	6.2	7.9	7.5
75°	0.9	0.9	0.9	0.9	1.3	2.2	4.4	5.7	5.7
77.5°	0.9	0.9	0.9	0.9	0.9	1.8	3.5	4.0	4.0
80°	0.4	0.4	0.4	0.4	0.9	1.3	2.2	2.6	2.6
82.5°	0.0	0.4	0.0	0.4	0.4	0.9	1.8	1.8	1.8
85°	0.0	0.0	0.0	0.0	0.4	0.4	0.9	1.3	0.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4
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)