

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: P859664

Luminaire Tested: **LD4C08D010 EU4089035 4LBMDSWLI**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859664
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 EU4089035 4LBMDSWLI
Description: 4 INCH 800 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS AND 4LBMDSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

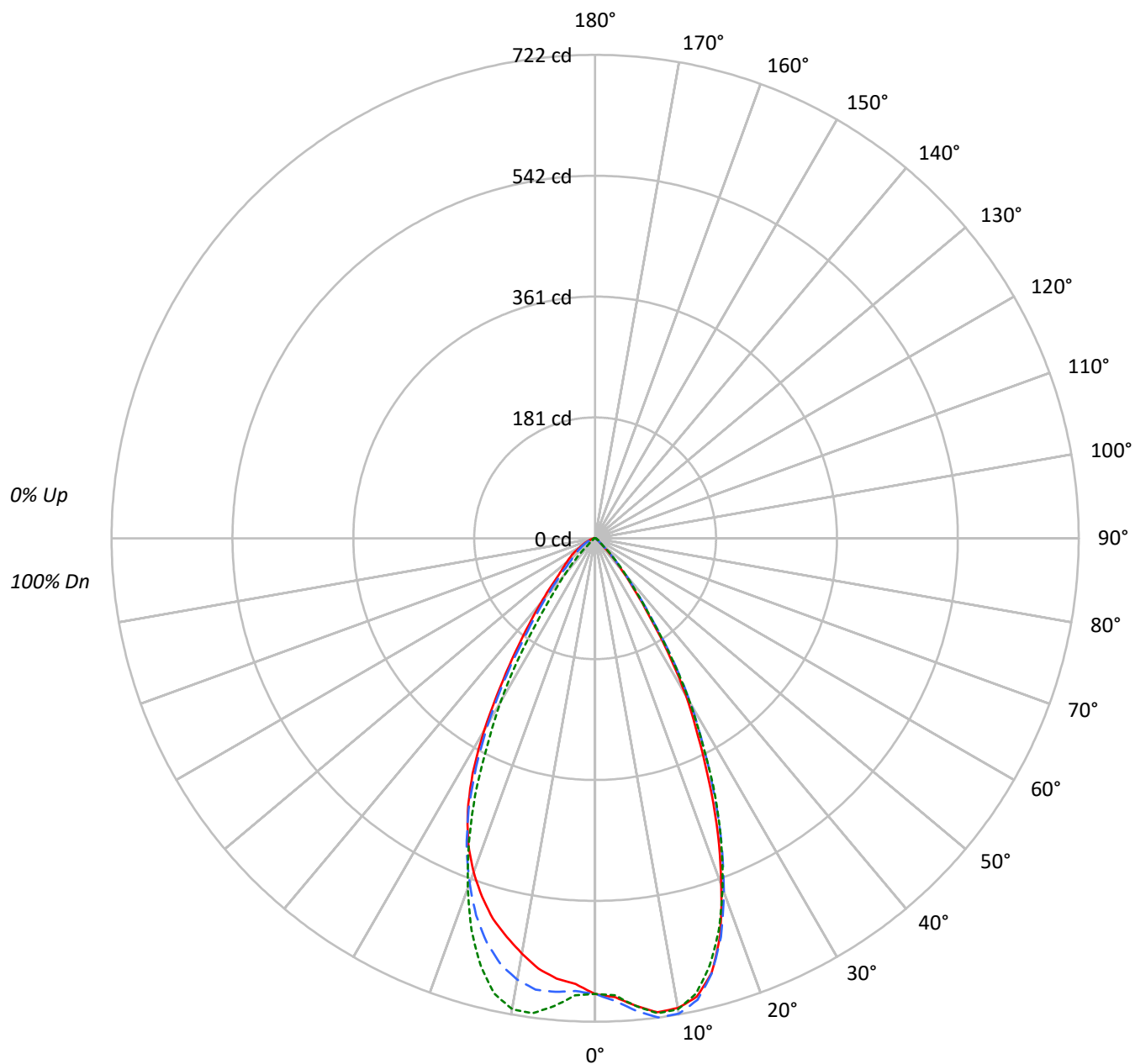
Lumens per Lamp: N/A
Luminaire Lumens: 605.0 lumens
Efficiency: N/A
Efficacy: 61.1 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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	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	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93		
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	87		
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	80		
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75		
5	92	84	78	74	91	83	77	73	81	76	73	79	75	72	78	74	71	70		
6	88	79	73	68	86	78	72	68	76	71	68	75	71	67	74	70	67	65		
7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	61		
8	79	70	64	60	78	69	64	60	68	63	59	67	63	59	66	62	59	58		
9	76	66	60	56	75	66	60	56	65	59	56	64	59	56	63	59	56	54		
10	72	63	57	53	71	62	57	53	61	56	53	61	56	53	60	56	52	51		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	83602	83602	83602
5°	86449	86499	81393
10°	88846	89071	78554
15°	85483	84007	74875
20°	71971	72651	69356
25°	54682	57461	61053
30°	38458	40047	46984
35°	20742	21732	31090
40°	10007	11050	20175
45°	3562	4847	13117
50°	1338	1682	10512
55°	1007	1199	8675
60°	811	909	6290
65°	669	814	4884
70°	503	682	3843
75°	427	665	2895
80°	354	637	1981
85°	0	705	1269



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.3	11.0
10°-20°	178.7	29.5
20°-30°	193.9	32.0
30°-40°	107.6	17.8
40°-50°	34.3	5.7
50°-60°	13.8	2.3
60°-70°	7.0	1.2
70°-80°	2.9	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°	438.9	72.5
0°-40°	546.5	90.3
0°-60°	594.5	98.3
0°-90°	605.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	605.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	680	680	680	680	680	
5°	701	708	701	680	660	67
15°	672	673	660	625	589	184
25°	403	420	424	447	450	184
35°	138	150	145	191	207	92
45°	20	24	28	62	76	20
55°	5	5	6	30	40	4
65°	2	2	3	14	17	2
75°	1	1	1	5	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°	680.5	680.5	680.5	680.5	680.5	680.5	680.5	680.5	680.5
2.5°	686.1	692.1	691.7	687.0	683.3	681.9	676.8	670.7	666.5
5°	701.0	708.4	708.4	704.7	701.4	693.5	680.0	667.0	660.0
7.5°	714.0	721.5	721.9	719.1	715.4	702.4	680.0	659.1	648.4
10°	712.2	717.8	721.0	718.2	714.0	696.8	669.3	641.4	629.7
12.5°	701.4	706.6	706.1	701.9	696.3	678.6	651.6	622.7	609.7
15°	672.1	674.9	672.6	667.9	660.5	647.0	625.1	600.4	588.7
17.5°	621.3	625.1	624.1	616.7	613.9	600.8	590.6	571.5	561.3
20°	550.5	562.2	562.2	556.6	555.7	546.8	548.2	538.0	530.5
22.5°	479.3	489.5	492.8	490.5	492.3	488.1	501.2	498.4	494.6
25°	403.4	413.6	420.1	419.2	423.9	423.9	446.7	452.3	450.4
27.5°	332.1	341.9	349.3	351.2	348.4	353.5	384.7	395.9	395.9
30°	271.1	279.0	286.0	286.0	282.3	286.0	319.1	332.1	331.2
32.5°	202.1	211.0	217.5	216.6	213.3	218.4	253.4	266.4	263.2
35°	138.3	144.4	149.5	147.6	144.9	153.2	191.4	207.7	207.3
37.5°	93.6	99.2	102.5	101.1	100.1	109.9	144.9	163.0	162.1
40°	62.4	66.1	68.5	68.0	68.9	77.3	109.0	125.8	125.8
42.5°	39.6	41.9	44.2	44.2	46.6	55.4	82.9	97.3	97.3
45°	20.5	21.9	24.2	25.6	27.9	37.3	62.4	74.5	75.5
47.5°	9.8	10.2	11.2	11.6	13.5	23.3	48.0	61.0	63.8
50°	7.0	7.5	7.5	7.5	8.8	17.7	40.5	52.6	55.0
52.5°	5.6	5.6	5.6	6.1	7.0	14.9	34.9	45.6	47.5
55°	4.7	4.7	4.7	4.7	5.6	12.1	29.8	39.1	40.5
57.5°	3.7	3.7	3.7	3.7	4.7	9.8	24.7	31.2	31.7
60°	3.3	3.3	3.3	3.3	3.7	8.4	20.0	25.6	25.6
62.5°	2.8	2.8	2.8	2.8	3.3	7.0	16.8	21.0	20.5
65°	2.3	2.3	2.3	2.3	2.8	5.6	13.5	16.8	16.8
67.5°	1.9	1.9	1.9	1.9	2.3	4.7	10.7	13.5	13.5
70°	1.4	1.4	1.4	1.4	1.9	3.7	8.8	10.7	10.7
72.5°	1.4	1.4	1.4	1.4	1.4	2.8	6.5	8.4	7.9
75°	0.9	0.9	0.9	0.9	1.4	2.3	4.7	6.1	6.1
77.5°	0.9	0.9	0.9	0.9	0.9	1.9	3.7	4.2	4.2
80°	0.5	0.5	0.5	0.5	0.9	1.4	2.3	2.8	2.8
82.5°	0.0	0.5	0.0	0.5	0.5	0.9	1.9	1.9	1.9
85°	0.0	0.0	0.0	0.0	0.5	0.5	0.9	1.4	0.9
87.5°	0.0	0.0	0.0	0.0	0.0	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)