

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: P859661

Luminaire Tested: **LD4C08D010 EU4089035 4LBMDDWLI**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859661
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 EU4089035 4LBMDDWLI
Description: 4 INCH 800 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS AND 4LBMDDW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

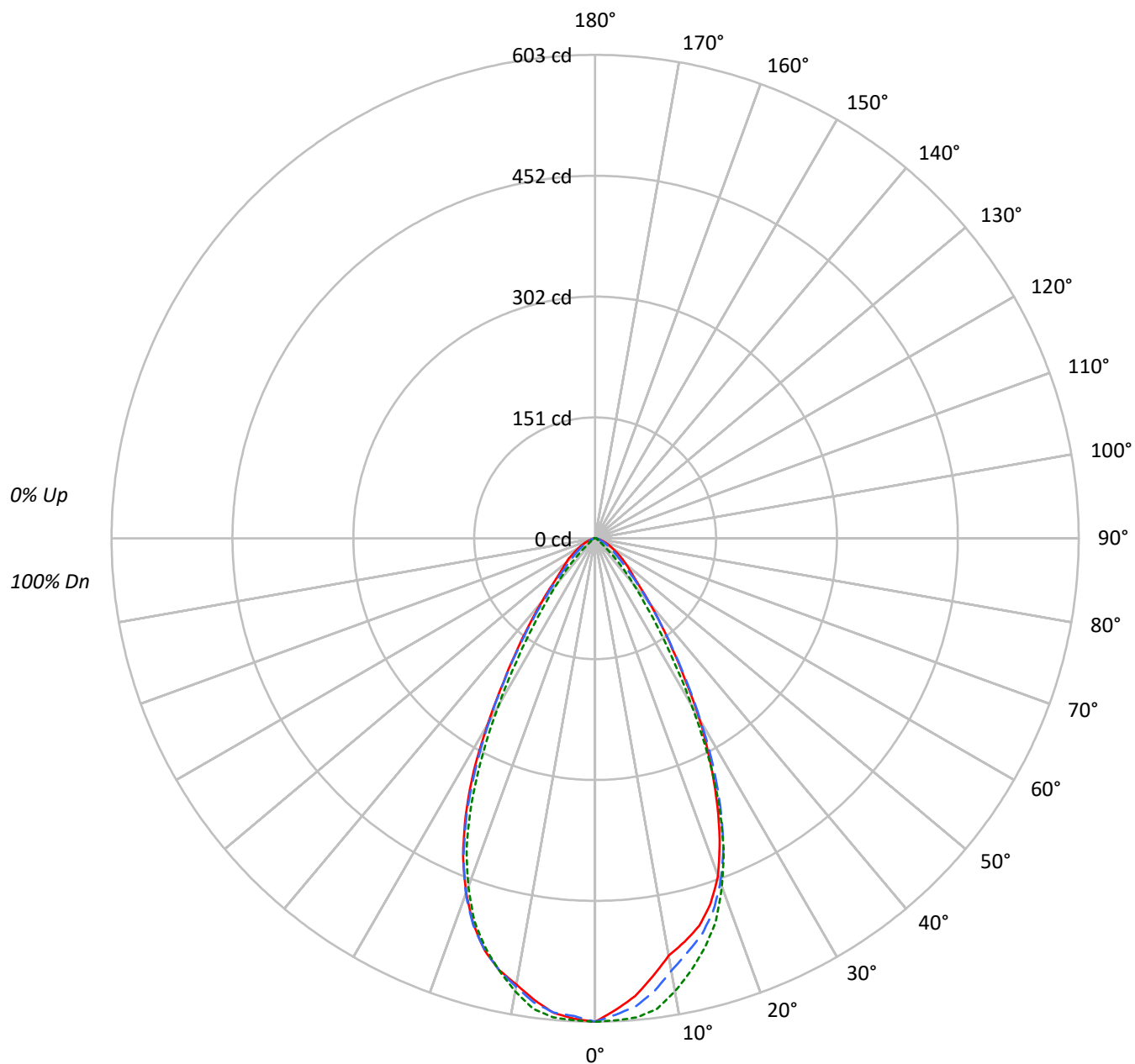
Lumens per Lamp: N/A
Luminaire Lumens: 549.0 lumens
Efficiency: N/A
Efficacy: 55.5 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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	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	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92		
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85		
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78		
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	72		
5	91	82	75	71	89	81	75	71	79	74	70	77	73	69	76	72	69	67		
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62		
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58		
8	77	67	61	57	76	67	61	57	66	60	56	65	60	56	64	59	56	55		
9	74	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	53	51		
10	70	60	54	50	69	60	54	50	59	53	50	58	53	50	57	53	49	48		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	74093	74093	74093
5°	70701	73969	73278
10°	65942	71568	70520
15°	63670	67231	67702
20°	58571	60401	61486
25°	48542	49423	51822
30°	36926	34160	37990
35°	25001	20457	25286
40°	17032	11723	16502
45°	11814	5907	11172
50°	9614	2408	8983
55°	7775	1499	7090
60°	6167	1155	5602
65°	4884	959	4331
70°	3664	826	3341
75°	2658	665	2421
80°	1981	637	1627
85°	1269	705	1269



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.4	10.1
10°-20°	145.7	26.5
20°-30°	167.1	30.4
30°-40°	101.5	18.5
40°-50°	43.5	7.9
50°-60°	20.9	3.8
60°-70°	10.2	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°	368.3	67.1
0°-40°	469.8	85.6
0°-60°	534.2	97.3
0°-90°	549.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	549.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	603	603	603	603	603	
5°	573	586	600	594	594	53
15°	501	512	529	532	532	139
25°	358	370	365	379	382	162
35°	167	169	136	165	169	107
45°	68	60	34	54	64	55
55°	36	27	7	24	33	33
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°	603.1	603.1	603.1	603.1	603.1	603.1	603.1	603.1	603.1
2.5°	588.6	595.2	594.7	600.3	601.7	600.3	596.5	600.3	599.8
5°	573.3	580.7	585.8	595.2	599.8	598.9	593.8	594.7	594.2
7.5°	550.9	560.2	569.1	583.0	591.9	591.4	584.0	582.6	580.7
10°	528.6	537.4	547.7	562.1	573.7	575.6	568.1	566.3	565.3
12.5°	515.5	522.5	529.5	542.1	552.3	556.0	551.8	552.3	551.8
15°	500.6	507.6	512.3	521.6	528.6	533.7	531.8	534.6	532.3
17.5°	478.3	486.6	488.5	495.5	500.6	503.9	505.7	508.5	504.8
20°	448.0	454.5	456.8	459.6	462.0	466.2	471.7	474.5	470.3
22.5°	405.6	418.2	417.7	416.3	418.7	420.1	428.9	433.6	430.3
25°	358.1	371.2	369.8	364.2	364.6	367.4	378.6	384.7	382.3
27.5°	308.3	320.4	317.1	306.4	303.6	307.8	322.3	329.2	327.8
30°	260.3	268.2	263.1	244.0	240.8	245.9	264.5	271.5	267.8
32.5°	208.6	214.7	212.4	189.1	183.5	188.6	210.5	217.0	212.8
35°	166.7	172.3	169.0	141.6	136.4	142.0	164.9	172.3	168.6
37.5°	133.7	137.8	133.7	104.3	99.7	105.2	127.1	136.9	132.3
40°	106.2	109.4	103.8	76.8	73.1	75.9	96.4	106.2	102.9
42.5°	83.8	86.2	80.1	56.3	52.2	55.9	72.6	81.5	79.6
45°	68.0	68.0	60.5	39.1	34.0	37.7	54.5	63.8	64.3
47.5°	58.2	56.8	47.5	26.1	19.6	24.7	43.3	53.1	54.5
50°	50.3	48.4	39.1	19.1	12.6	17.7	35.9	45.6	47.0
52.5°	43.3	41.9	32.6	14.9	8.8	13.5	30.3	39.6	41.0
55°	36.3	35.4	27.0	11.6	7.0	10.2	24.2	32.1	33.1
57.5°	29.8	28.4	21.9	9.8	5.6	8.4	20.0	26.5	27.5
60°	25.1	23.8	17.7	7.9	4.7	6.5	16.3	21.9	22.8
62.5°	21.0	19.6	14.4	6.5	3.7	5.6	13.0	17.7	18.6
65°	16.8	15.8	11.2	5.1	3.3	4.2	10.2	14.0	14.9
67.5°	13.5	12.6	8.8	4.2	2.8	3.3	7.9	11.2	12.1
70°	10.2	9.3	6.5	3.3	2.3	2.8	6.1	8.4	9.3
72.5°	7.5	7.0	5.1	2.8	1.9	2.3	4.2	6.1	7.0
75°	5.6	5.1	3.7	1.9	1.4	1.9	3.3	4.7	5.1
77.5°	3.7	3.7	2.8	1.4	1.4	1.4	2.3	3.3	3.3
80°	2.8	2.3	1.9	0.9	0.9	0.9	1.4	2.3	2.3
82.5°	1.9	1.4	1.4	0.9	0.9	0.9	0.9	1.4	1.4
85°	0.9	0.9	0.9	0.5	0.5	0.5	0.5	0.9	0.9
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)