

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: P859384

Luminaire Tested: **LD4C65D010 EU4659040 4LBMDSWMW**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859384
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: LD4C65D010 EU4659040 4LBMDSWMW
Description: 4 INCH 6500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

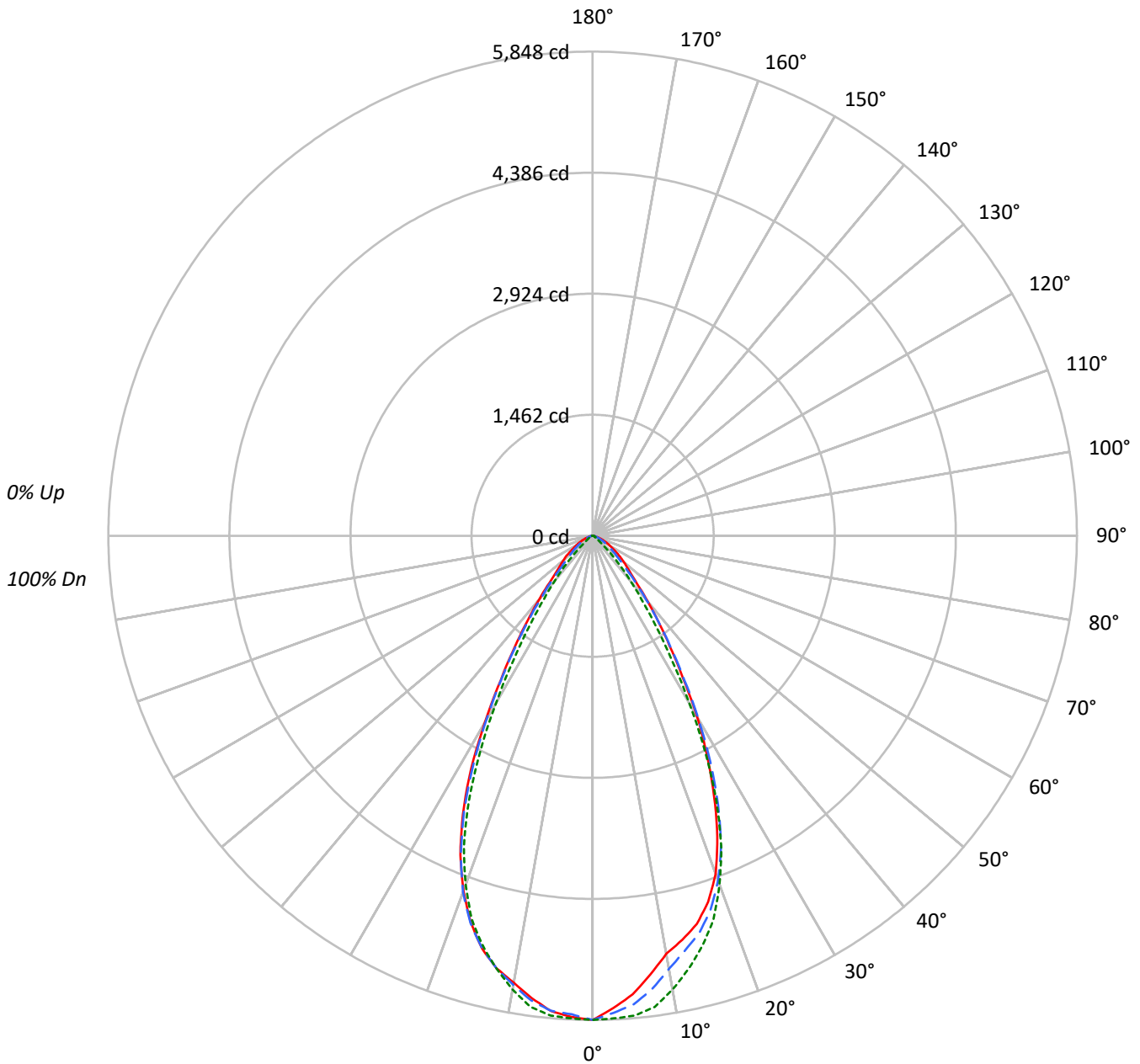
Lumens per Lamp: N/A
Luminaire Lumens: 5324.0 lumens
Efficiency: N/A
Efficacy: 73.5 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 72.4
Input Voltage (V): NR
Input Current (A_{in}): 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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92					92			
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85					85			
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78					78			
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	72					72			
5	91	82	75	71	89	81	75	71	79	74	70	77	73	69	76	72	69	67					67			
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62					62			
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58					58			
8	77	67	61	57	76	67	61	57	66	60	56	65	60	56	64	59	56	55					55			
9	74	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	53	51					51			
10	70	60	54	50	69	60	54	50	59	53	50	58	53	50	57	53	49	48					48			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	718484	718484	718484
5°	685588	717331	710647
10°	639437	694077	683935
15°	617469	651937	656528
20°	567991	585706	596335
25°	470765	479332	502593
30°	358123	331212	368379
35°	242482	198449	245181
40°	165137	113705	160069
45°	114547	57282	108275
50°	93212	23298	87173
55°	75459	14501	68669
60°	59928	11106	54375
65°	47267	9186	42006
70°	35704	8118	32436
75°	25727	6408	23591
80°	19173	6367	15989
85°	12686	6343	12686



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	537.7	10.1
10°-20°	1412.8	26.5
20°-30°	1621.0	30.4
30°-40°	984.7	18.5
40°-50°	422.0	7.9
50°-60°	202.5	3.8
60°-70°	98.4	1.8
70°-80°	36.5	0.7
80°-90°	8.4	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°	3571.5	67.1
0°-40°	4556.2	85.6
0°-60°	5180.6	97.3
0°-90°	5324.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5324.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5848	5848	5848	5848	5848	
5°	5559	5681	5817	5758	5762	517
15°	4855	4968	5126	5157	5162	1352
25°	3473	3586	3536	3672	3708	1575
35°	1617	1639	1323	1599	1635	1036
45°	659	587	330	528	623	536
55°	352	262	68	235	321	318
65°	163	108	32	99	144	165
75°	54	36	14	32	50	59
85°	9	9	4	4	9	12
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°	5848.3	5848.3	5848.3	5848.3	5848.3	5848.3	5848.3	5848.3	5848.3
2.5°	5708.3	5771.6	5767.0	5821.2	5834.8	5821.2	5785.1	5821.2	5816.7
5°	5559.3	5631.6	5681.2	5771.6	5816.7	5807.7	5758.0	5767.0	5762.5
7.5°	5342.5	5432.9	5518.7	5654.1	5740.0	5735.4	5663.2	5649.6	5631.6
10°	5125.8	5211.6	5310.9	5450.9	5563.8	5581.9	5509.6	5491.6	5482.5
12.5°	4999.3	5067.1	5134.8	5256.7	5356.1	5392.2	5351.6	5356.1	5351.6
15°	4854.8	4922.5	4967.7	5058.0	5125.8	5175.4	5157.4	5184.5	5161.9
17.5°	4638.0	4719.3	4737.4	4805.1	4854.8	4886.4	4904.5	4931.6	4895.4
20°	4344.5	4407.7	4430.3	4457.4	4480.0	4520.6	4574.8	4601.9	4561.3
22.5°	3933.5	4055.4	4050.9	4037.4	4060.0	4073.5	4159.3	4204.5	4172.9
25°	3472.9	3599.3	3585.8	3531.6	3536.1	3563.2	3671.6	3730.3	3707.7
27.5°	2989.7	3107.1	3075.5	2971.6	2944.5	2985.1	3125.1	3192.9	3179.3
30°	2524.5	2601.3	2551.6	2366.4	2334.8	2384.5	2565.1	2632.9	2596.8
32.5°	2023.2	2081.9	2059.3	1833.5	1779.3	1829.0	2041.3	2104.5	2063.9
35°	1616.8	1671.0	1639.3	1372.9	1323.2	1377.4	1598.7	1671.0	1634.8
37.5°	1296.1	1336.8	1296.1	1011.6	966.4	1020.6	1232.9	1327.7	1282.6
40°	1029.7	1061.3	1007.1	745.2	709.0	736.1	934.8	1029.7	998.1
42.5°	812.9	835.5	776.8	546.4	505.8	541.9	704.5	790.3	772.3
45°	659.3	659.3	587.1	379.4	329.7	365.8	528.4	618.7	623.2
47.5°	564.5	551.0	460.6	252.9	189.7	239.4	420.0	514.8	528.4
50°	487.7	469.7	379.4	185.2	121.9	171.6	347.7	442.6	456.1
52.5°	420.0	406.4	316.1	144.5	85.8	131.0	293.5	383.9	397.4
55°	352.3	343.2	261.9	112.9	67.7	99.4	234.8	311.6	320.6
57.5°	289.0	275.5	212.3	94.8	54.2	81.3	194.2	257.4	266.4
60°	243.9	230.3	171.6	76.8	45.2	63.2	158.1	212.3	221.3
62.5°	203.2	189.7	140.0	63.2	36.1	54.2	126.5	171.6	180.6
65°	162.6	153.5	108.4	49.7	31.6	40.6	99.4	135.5	144.5
67.5°	131.0	121.9	85.8	40.6	27.1	31.6	76.8	108.4	117.4
70°	99.4	90.3	63.2	31.6	22.6	27.1	58.7	81.3	90.3
72.5°	72.3	67.7	49.7	27.1	18.1	22.6	40.6	58.7	67.7
75°	54.2	49.7	36.1	18.1	13.5	18.1	31.6	45.2	49.7
77.5°	36.1	36.1	27.1	13.5	13.5	13.5	22.6	31.6	31.6
80°	27.1	22.6	18.1	9.0	9.0	9.0	13.5	22.6	22.6
82.5°	18.1	13.5	13.5	9.0	9.0	9.0	9.0	13.5	13.5
85°	9.0	9.0	9.0	4.5	4.5	4.5	4.5	9.0	9.0
87.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
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)