

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: P859363

Luminaire Tested: **LD4C65D010 EU4659035 4LBMDSWMW**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859363
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 EU4659035 4LBMDSWMW
Description: 4 INCH 6500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBMDSW TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

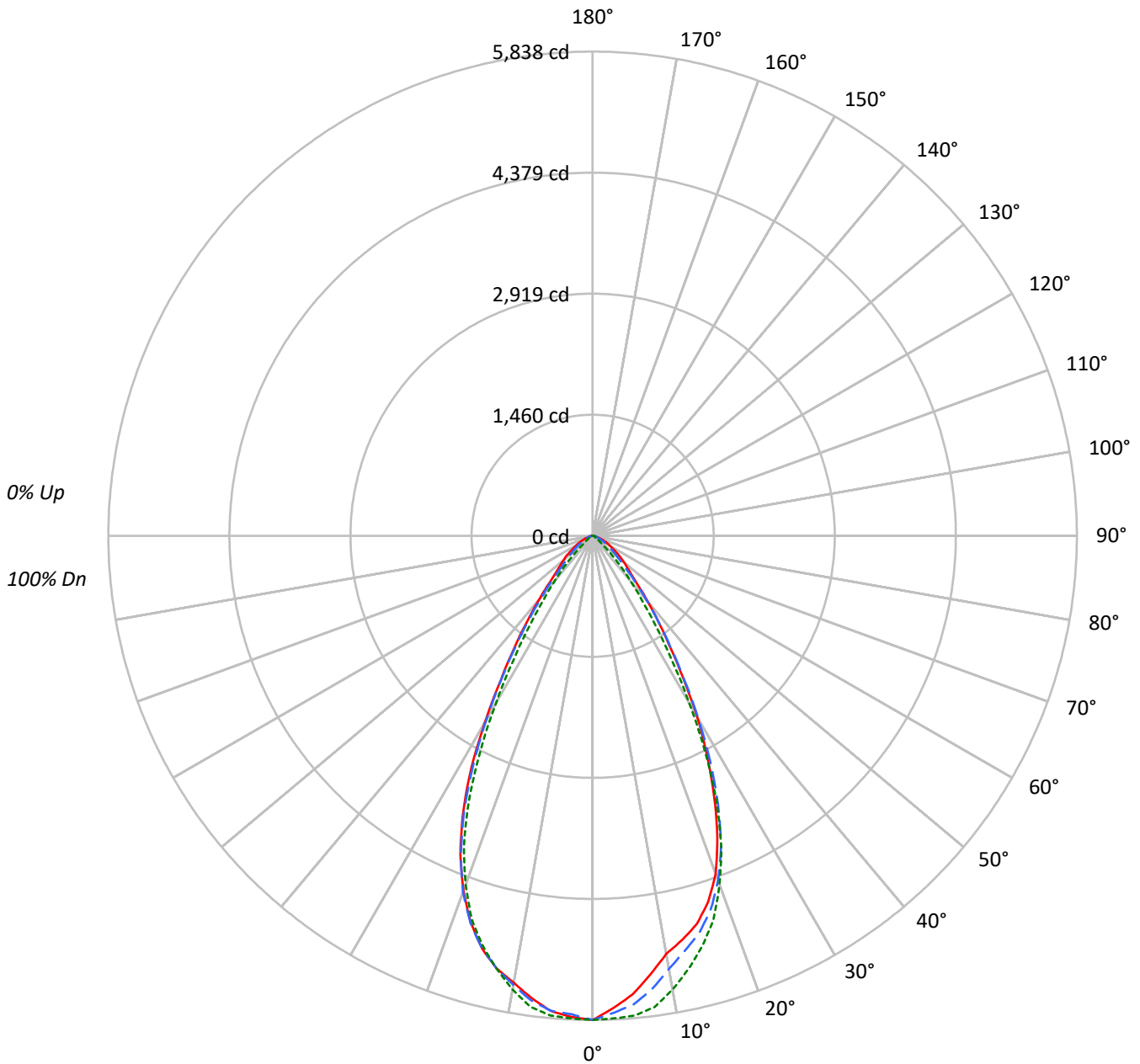
Lumens per Lamp: N/A
Luminaire Lumens: 5315.0 lumens
Efficiency: N/A
Efficacy: 73.4 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	717280	717280	717280
5°	684429	716123	709451
10°	638352	692904	682787
15°	616426	650830	655421
20°	567024	584712	595315
25°	469965	478519	501739
30°	357513	330659	367755
35°	242062	198119	244776
40°	164848	113513	159796
45°	114356	57178	108102
50°	93059	23260	87039
55°	75330	14479	68562
60°	59830	11081	54277
65°	47180	9186	41947
70°	35633	8082	32400
75°	25680	6408	23544
80°	19173	6367	15918
85°	12686	6343	12686



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	536.8	10.1
10°-20°	1410.4	26.5
20°-30°	1618.2	30.4
30°-40°	983.0	18.5
40°-50°	421.3	7.9
50°-60°	202.1	3.8
60°-70°	98.3	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°	3565.4	67.1
0°-40°	4548.5	85.6
0°-60°	5171.9	97.3
0°-90°	5315.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5315.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5838	5838	5838	5838	5838	
5°	5550	5672	5807	5748	5753	516
15°	4847	4959	5117	5149	5153	1349
25°	3467	3580	3530	3665	3701	1573
35°	1614	1637	1321	1596	1632	1034
45°	658	586	329	528	622	535
55°	352	262	68	234	320	317
65°	162	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°	5838.5	5838.5	5838.5	5838.5	5838.5	5838.5	5838.5	5838.5	5838.5
2.5°	5698.7	5761.8	5757.3	5811.4	5824.9	5811.4	5775.3	5811.4	5806.9
5°	5549.9	5622.0	5671.6	5761.8	5806.9	5797.9	5748.3	5757.3	5752.8
7.5°	5333.5	5423.7	5509.3	5644.6	5730.2	5725.7	5653.6	5640.1	5622.0
10°	5117.1	5202.8	5301.9	5441.7	5554.4	5572.5	5500.3	5482.3	5473.3
12.5°	4990.9	5058.5	5126.1	5247.8	5347.0	5383.1	5342.5	5347.0	5342.5
15°	4846.6	4914.2	4959.3	5049.5	5117.1	5166.7	5148.7	5175.7	5153.2
17.5°	4630.2	4711.3	4729.4	4797.0	4846.6	4878.1	4896.2	4923.2	4887.2
20°	4337.1	4400.3	4422.8	4449.8	4472.4	4513.0	4567.1	4594.1	4553.5
22.5°	3926.9	4048.6	4044.1	4030.6	4053.1	4066.6	4152.3	4197.4	4165.8
25°	3467.0	3593.2	3579.7	3525.6	3530.1	3557.2	3665.4	3724.0	3701.4
27.5°	2984.6	3101.8	3070.3	2966.6	2939.5	2980.1	3119.9	3187.5	3174.0
30°	2520.2	2596.9	2547.3	2362.4	2330.9	2380.5	2560.8	2628.4	2592.4
32.5°	2019.8	2078.4	2055.9	1830.4	1776.3	1825.9	2037.8	2100.9	2060.4
35°	1614.0	1668.1	1636.6	1370.6	1321.0	1375.1	1596.0	1668.1	1632.1
37.5°	1293.9	1334.5	1293.9	1009.9	964.8	1018.9	1230.8	1325.5	1280.4
40°	1027.9	1059.5	1005.4	743.9	707.8	734.9	933.3	1027.9	996.4
42.5°	811.5	834.1	775.5	545.5	504.9	541.0	703.3	789.0	770.9
45°	658.2	658.2	586.1	378.7	329.1	365.2	527.5	617.7	622.2
47.5°	563.6	550.0	459.9	252.5	189.4	238.9	419.3	514.0	527.5
50°	486.9	468.9	378.7	184.8	121.7	171.3	347.2	441.8	455.4
52.5°	419.3	405.8	315.6	144.3	85.7	130.7	293.0	383.2	396.7
55°	351.7	342.6	261.5	112.7	67.6	99.2	234.4	311.1	320.1
57.5°	288.5	275.0	211.9	94.7	54.1	81.2	193.9	257.0	266.0
60°	243.5	229.9	171.3	76.6	45.1	63.1	157.8	211.9	220.9
62.5°	202.9	189.4	139.8	63.1	36.1	54.1	126.2	171.3	180.3
65°	162.3	153.3	108.2	49.6	31.6	40.6	99.2	135.3	144.3
67.5°	130.7	121.7	85.7	40.6	27.1	31.6	76.6	108.2	117.2
70°	99.2	90.2	63.1	31.6	22.5	27.1	58.6	81.2	90.2
72.5°	72.1	67.6	49.6	27.1	18.0	22.5	40.6	58.6	67.6
75°	54.1	49.6	36.1	18.0	13.5	18.0	31.6	45.1	49.6
77.5°	36.1	36.1	27.1	13.5	13.5	13.5	22.5	31.6	31.6
80°	27.1	22.5	18.0	9.0	9.0	9.0	13.5	22.5	22.5
82.5°	18.0	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)