

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: P859321

Luminaire Tested: **LD4C65D010 EU4659027 4LBMDSWMW**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P859321
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 EU4659027 4LBMDSWMW
Description: 4 INCH 6500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBMDSW TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

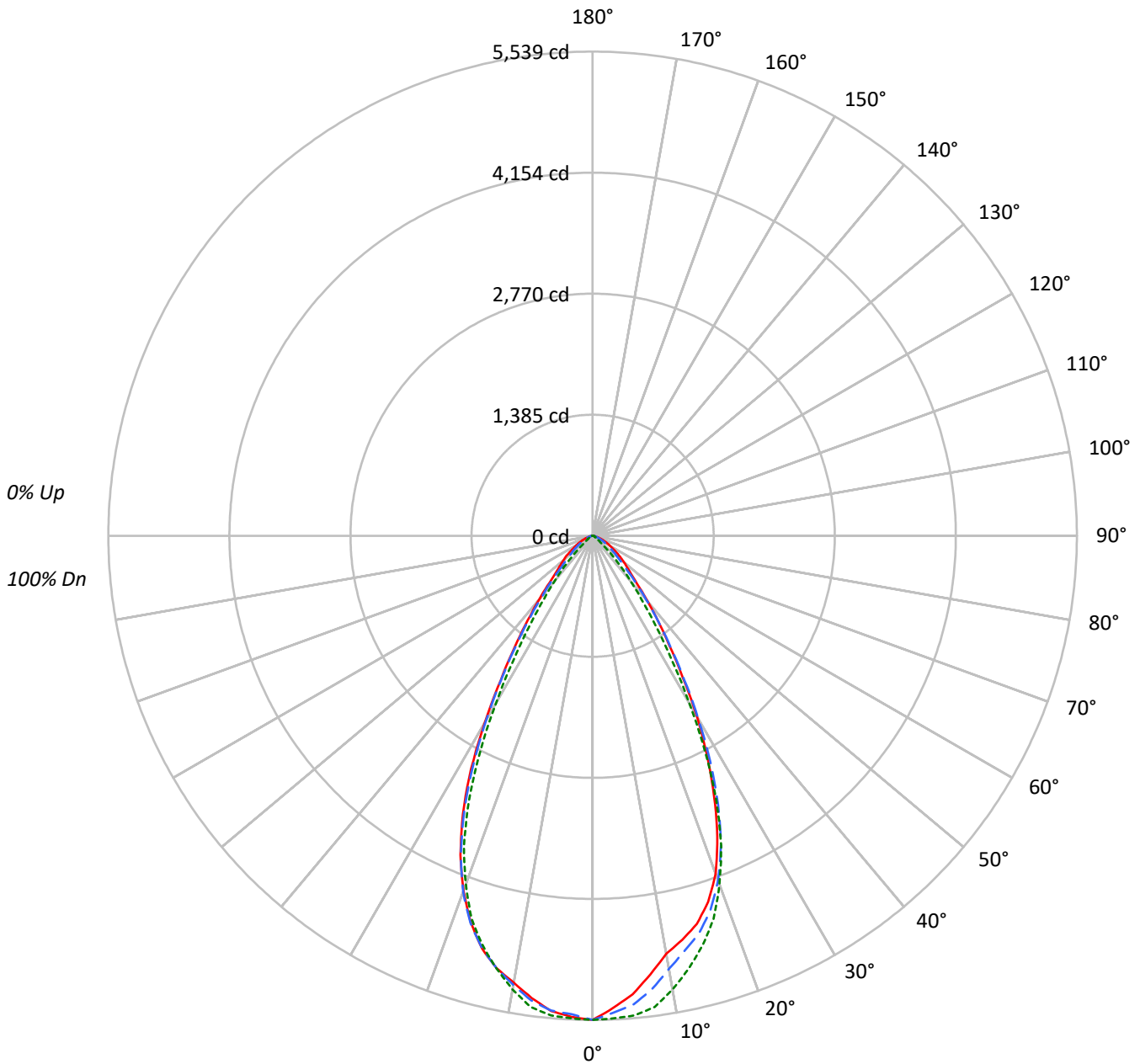
Lumens per Lamp: N/A
Luminaire Lumens: 5042.0 lumens
Efficiency: N/A
Efficacy: 69.6 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P859321

CATALOG NUMBER: LD4C65D010 EU4659027 4LBMDSWMW

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	0																
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°	680436	680436	680436
5°	649270	679336	673009
10°	605568	657313	647708
15°	584756	617405	621755
20°	537908	554682	564749
25°	445823	453943	475970
30°	339156	313664	348860
35°	229629	187935	232193
40°	156381	107691	151585
45°	108484	54242	102542
50°	88281	22075	82566
55°	71453	13751	65049
60°	56758	10516	51500
65°	44767	8692	39796
70°	33801	7687	30712
75°	24351	6076	22309
80°	18182	6084	15140
85°	12122	6061	12122



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	509.2	10.1
10°-20°	1338.0	26.5
20°-30°	1535.1	30.4
30°-40°	932.5	18.5
40°-50°	399.7	7.9
50°-60°	191.7	3.8
60°-70°	93.2	1.8
70°-80°	34.6	0.7
80°-90°	8.0	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°	3382.3	67.1
0°-40°	4314.8	85.6
0°-60°	4906.2	97.3
0°-90°	5042.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5042.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5539	5539	5539	5539	5539	
5°	5265	5380	5509	5453	5457	489
15°	4598	4705	4854	4884	4888	1280
25°	3289	3396	3349	3477	3511	1492
35°	1531	1552	1253	1514	1548	981
45°	624	556	312	500	590	507
55°	334	248	64	222	304	301
65°	154	103	30	94	137	156
75°	51	34	13	30	47	56
85°	9	9	4	4	9	12
90°	0	0	0	0	0	



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CATALOG NUMBER: LD4C65D010 EU4659027 4LBMD5WMW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	5538.6	5538.6	5538.6	5538.6	5538.6	5538.6	5538.6	5538.6	5538.6
2.5°	5406.0	5465.9	5461.6	5512.9	5525.7	5512.9	5478.7	5512.9	5508.6
5°	5264.8	5333.3	5380.3	5465.9	5508.6	5500.1	5453.0	5461.6	5457.3
7.5°	5059.6	5145.1	5226.4	5354.7	5435.9	5431.6	5363.2	5350.4	5333.3
10°	4854.3	4935.5	5029.6	5162.2	5269.1	5286.2	5217.8	5200.7	5192.1
12.5°	4734.5	4798.7	4862.8	4978.3	5072.4	5106.6	5068.1	5072.4	5068.1
15°	4597.6	4661.8	4704.6	4790.1	4854.3	4901.3	4884.2	4909.9	4888.5
17.5°	4392.4	4469.3	4486.5	4550.6	4597.6	4627.6	4644.7	4670.4	4636.1
20°	4114.4	4174.2	4195.6	4221.3	4242.7	4281.2	4332.5	4358.1	4319.7
22.5°	3725.2	3840.6	3836.4	3823.5	3844.9	3857.7	3939.0	3981.8	3951.8
25°	3288.9	3408.7	3395.8	3344.5	3348.8	3374.5	3477.1	3532.7	3511.3
27.5°	2831.3	2942.5	2912.6	2814.2	2788.5	2827.0	2959.6	3023.8	3010.9
30°	2390.8	2463.5	2416.4	2241.1	2211.1	2258.2	2429.3	2493.4	2459.2
32.5°	1916.0	1971.6	1950.3	1736.4	1685.1	1732.1	1933.2	1993.0	1954.5
35°	1531.1	1582.4	1552.5	1300.2	1253.1	1304.4	1514.0	1582.4	1548.2
37.5°	1227.5	1266.0	1227.5	958.0	915.3	966.6	1167.6	1257.4	1214.6
40°	975.1	1005.1	953.7	705.7	671.5	697.1	885.3	975.1	945.2
42.5°	769.8	791.2	735.6	517.5	479.0	513.2	667.2	748.5	731.3
45°	624.4	624.4	556.0	359.3	312.2	346.4	500.4	585.9	590.2
47.5°	534.6	521.8	436.2	239.5	179.6	226.7	397.8	487.6	500.4
50°	461.9	444.8	359.3	175.4	115.5	162.5	329.3	419.1	432.0
52.5°	397.8	384.9	299.4	136.9	81.3	124.0	278.0	363.5	376.4
55°	333.6	325.0	248.1	106.9	64.2	94.1	222.4	295.1	303.7
57.5°	273.7	260.9	201.0	89.8	51.3	77.0	183.9	243.8	252.3
60°	231.0	218.1	162.5	72.7	42.8	59.9	149.7	201.0	209.6
62.5°	192.5	179.6	132.6	59.9	34.2	51.3	119.8	162.5	171.1
65°	154.0	145.4	102.6	47.0	29.9	38.5	94.1	128.3	136.9
67.5°	124.0	115.5	81.3	38.5	25.7	29.9	72.7	102.6	111.2
70°	94.1	85.5	59.9	29.9	21.4	25.7	55.6	77.0	85.5
72.5°	68.4	64.2	47.0	25.7	17.1	21.4	38.5	55.6	64.2
75°	51.3	47.0	34.2	17.1	12.8	17.1	29.9	42.8	47.0
77.5°	34.2	34.2	25.7	12.8	12.8	12.8	21.4	29.9	29.9
80°	25.7	21.4	17.1	8.6	8.6	8.6	12.8	21.4	21.4
82.5°	17.1	12.8	12.8	8.6	8.6	8.6	8.6	12.8	12.8
85°	8.6	8.6	8.6	4.3	4.3	4.3	4.3	8.6	8.6
87.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
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)