

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: P857708

Luminaire Tested: **LD4C35D010 EU4359027 4LBMDSWLI**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P857708
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: LD4C35D010 EU4359027 4LBMDSWLI
Description: 4 INCH 3500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBMDSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

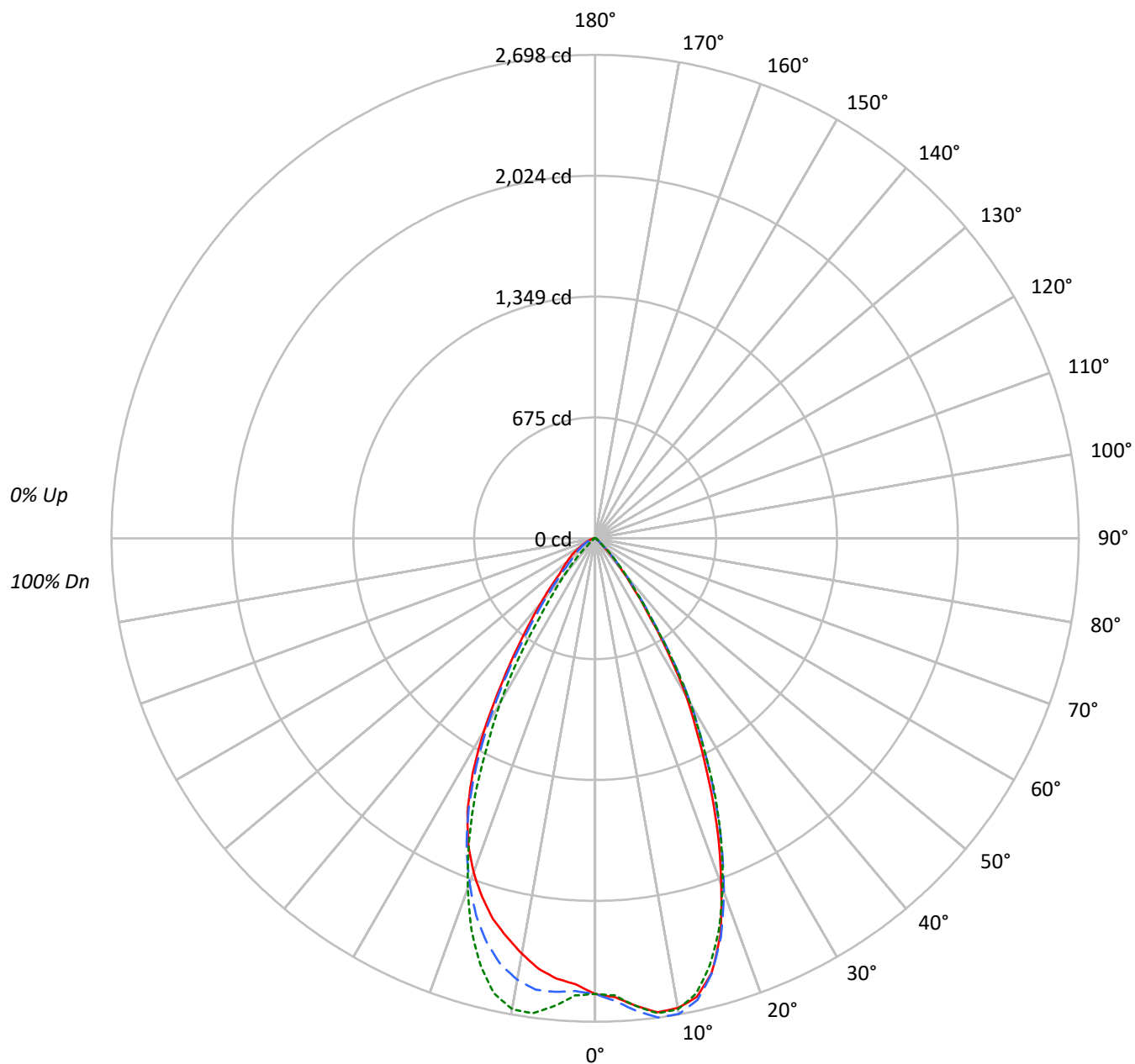
Lumens per Lamp: N/A
Luminaire Lumens: 2261.0 lumens
Efficiency: N/A
Efficacy: 56.0 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 40.4
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

TEST NUMBER: P857708

CATALOG NUMBER: LD4C35D010 EU4359027 4LBMDSWLI

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	60	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°	312429	312429	312429
5°	323069	323278	304176
10°	332019	332879	293584
15°	319469	313936	279837
20°	268993	271490	259201
25°	204334	214717	228164
30°	143717	149633	175565
35°	77538	81182	116172
40°	37399	41312	75376
45°	13309	18139	48995
50°	4988	6326	39257
55°	3727	4477	32428
60°	2998	3415	23514
65°	2529	3023	18227
70°	1868	2514	14368
75°	1661	2468	10728
80°	1203	2476	7358
85°	0	2396	4934



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.6	11.0
10°-20°	668.0	29.5
20°-30°	724.6	32.0
30°-40°	402.0	17.8
40°-50°	128.1	5.7
50°-60°	51.6	2.3
60°-70°	26.1	1.2
70°-80°	10.8	0.5
80°-90°	2.2	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°	1640.2	72.5
0°-40°	2042.2	90.3
0°-60°	2221.9	98.3
0°-90°	2261.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2261.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2543	2543	2543	2543	2543	
5°	2620	2648	2621	2541	2466	252
15°	2512	2514	2468	2336	2200	687
25°	1507	1570	1584	1669	1683	689
35°	517	559	541	715	775	343
45°	77	90	104	233	282	73
55°	17	17	21	111	151	16
65°	9	9	10	50	63	9
75°	4	4	5	17	23	4
85°	0	0	2	4	4	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°	2543.1	2543.1	2543.1	2543.1	2543.1	2543.1	2543.1	2543.1	2543.1
2.5°	2564.0	2586.6	2584.9	2567.5	2553.6	2548.3	2529.2	2506.6	2490.9
5°	2619.7	2647.6	2647.6	2633.6	2621.4	2591.9	2541.4	2492.6	2466.5
7.5°	2668.4	2696.3	2698.0	2687.6	2673.7	2624.9	2541.4	2463.0	2423.0
10°	2661.5	2682.4	2694.6	2684.1	2668.4	2604.0	2501.3	2396.9	2353.4
12.5°	2621.4	2640.6	2638.9	2623.2	2602.3	2536.2	2435.2	2327.3	2278.5
15°	2511.8	2522.2	2513.5	2496.1	2468.3	2417.8	2336.0	2243.7	2200.2
17.5°	2322.1	2336.0	2332.5	2304.6	2294.2	2245.5	2207.2	2135.8	2097.5
20°	2057.5	2101.0	2101.0	2080.1	2076.6	2043.5	2048.8	2010.5	1982.6
22.5°	1791.1	1829.4	1841.6	1832.9	1839.9	1824.2	1873.0	1862.5	1848.6
25°	1507.4	1545.7	1570.1	1566.6	1584.0	1584.0	1669.3	1690.2	1683.2
27.5°	1241.1	1277.7	1305.5	1312.5	1302.0	1321.2	1437.8	1479.6	1479.6
30°	1013.1	1042.7	1068.8	1068.8	1054.8	1068.8	1192.4	1241.1	1237.6
32.5°	755.5	788.5	812.9	809.4	797.2	816.4	946.9	995.7	983.5
35°	517.0	539.6	558.8	551.8	541.3	572.7	715.4	776.3	774.6
37.5°	349.9	370.8	382.9	377.7	374.2	410.8	541.3	609.2	605.8
40°	233.2	247.2	255.9	254.1	257.6	289.0	407.3	470.0	470.0
42.5°	148.0	156.7	165.4	165.4	174.1	207.1	309.8	363.8	363.8
45°	76.6	81.8	90.5	95.7	104.4	139.3	233.2	278.5	282.0
47.5°	36.6	38.3	41.8	43.5	50.5	87.0	179.3	228.0	238.5
50°	26.1	27.9	27.9	27.9	33.1	66.1	151.4	196.7	205.4
52.5°	20.9	20.9	20.9	22.6	26.1	55.7	130.6	170.6	177.5
55°	17.4	17.4	17.4	17.4	20.9	45.3	111.4	146.2	151.4
57.5°	13.9	13.9	13.9	13.9	17.4	36.6	92.3	116.6	118.4
60°	12.2	12.2	12.2	12.2	13.9	31.3	74.8	95.7	95.7
62.5°	10.4	10.4	10.4	10.4	12.2	26.1	62.7	78.3	76.6
65°	8.7	8.7	8.7	8.7	10.4	20.9	50.5	62.7	62.7
67.5°	7.0	7.0	7.0	7.0	8.7	17.4	40.0	50.5	50.5
70°	5.2	5.2	5.2	5.2	7.0	13.9	33.1	40.0	40.0
72.5°	5.2	5.2	5.2	5.2	5.2	10.4	24.4	31.3	29.6
75°	3.5	3.5	3.5	3.5	5.2	8.7	17.4	22.6	22.6
77.5°	3.5	3.5	3.5	3.5	3.5	7.0	13.9	15.7	15.7
80°	1.7	1.7	1.7	1.7	3.5	5.2	8.7	10.4	10.4
82.5°	0.0	1.7	0.0	1.7	1.7	3.5	7.0	7.0	7.0
85°	0.0	0.0	0.0	0.0	1.7	1.7	3.5	5.2	3.5
87.5°	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7	1.7
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)