

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: P857729

Luminaire Tested: **LD4C35D010 EU4359030 4LBMDSWLI**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P857729
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 EU4359030 4LBMDSWLI
Description: 4 INCH 3500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

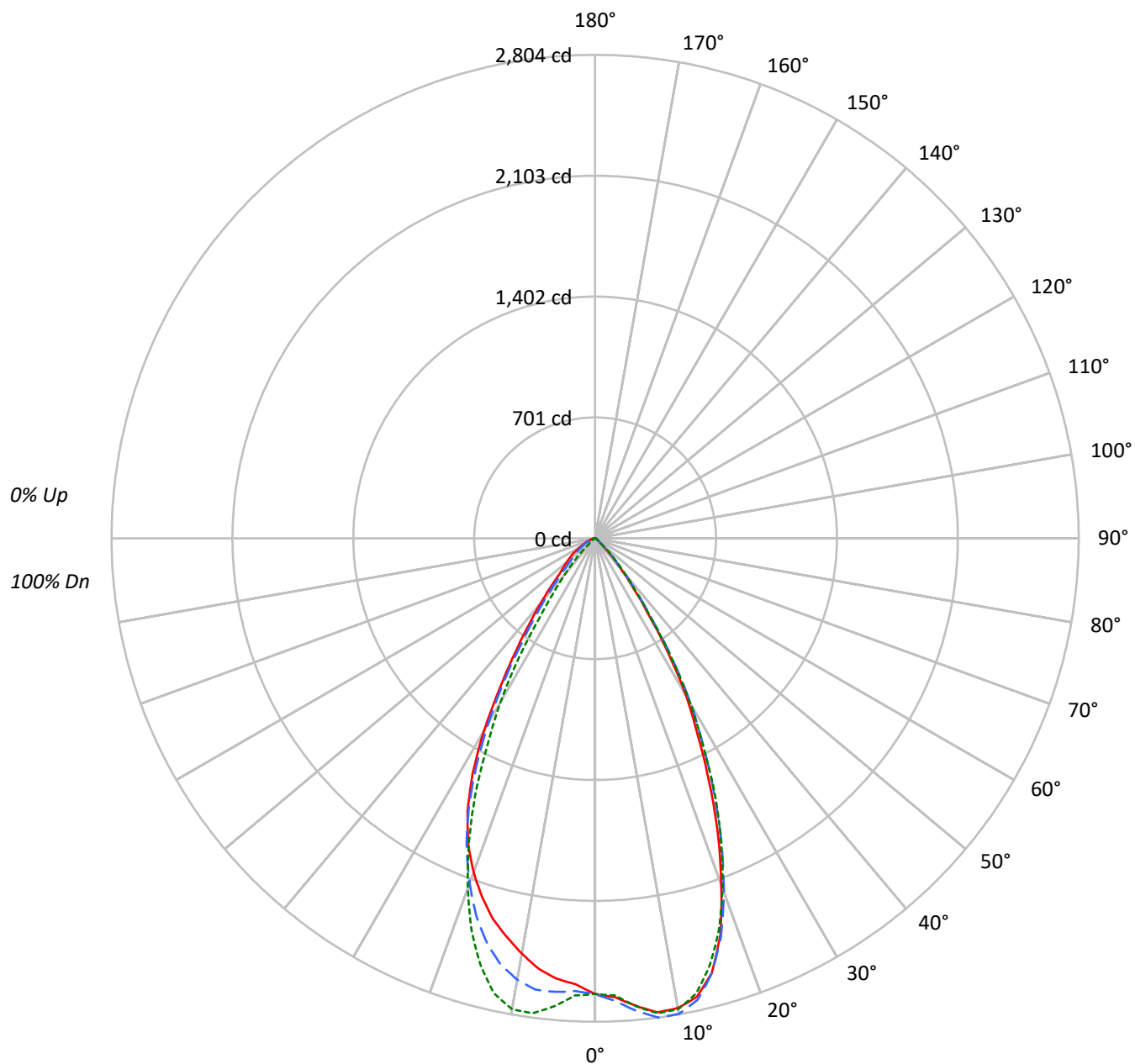
Lumens per Lamp: N/A
Luminaire Lumens: 2350.0 lumens
Efficiency: N/A
Efficacy: 58.2 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

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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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	113	111	108	106	111	108	106	104		104	103	101			101	99	98			97
2	108	103	99	95	105	101	97	94		98	95	92			95	92	90			92
3	102	96	91	87	100	94	90	86		92	88	85			89	86	83			87
4	97	89	84	80	95	88	83	79		86	82	78			84	80	77			82
5	92	84	78	74	91	83	77	73		81	76	73			79	75	72			78
6	88	79	73	68	86	78	72	68		76	71	68			75	71	67			74
7	83	74	68	64	82	73	68	64		72	67	63			71	66	63			70
8	79	70	64	60	78	69	64	60		68	63	59			67	63	59			66
9	76	66	60	56	75	66	60	56		65	60	56			64	59	56			63
10	72	63	57	53	71	62	57	53		61	56	53			61	56	53			60

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	324726	324726	324726
5°	335783	336005	316150
10°	345080	345990	305135
15°	332048	326286	290852
20°	279583	282185	269412
25°	212386	223176	237151
30°	149363	155534	182473
35°	80582	84392	120746
40°	38875	42948	78343
45°	13830	18868	50924
50°	5180	6575	40805
55°	3877	4648	33713
60°	3120	3563	24448
65°	2616	3169	18924
70°	1940	2586	14943
75°	1709	2563	11155
80°	1273	2547	7712
85°	0	2537	5075



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.4	11.0
10°-20°	694.3	29.5
20°-30°	753.1	32.0
30°-40°	417.8	17.8
40°-50°	133.1	5.7
50°-60°	53.6	2.3
60°-70°	27.1	1.2
70°-80°	11.2	0.5
80°-90°	2.3	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°	1704.7	72.5
0°-40°	2122.6	90.3
0°-60°	2309.3	98.3
0°-90°	2350.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2350.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2643	2643	2643	2643	2643	
5°	2723	2752	2725	2641	2564	262
15°	2611	2612	2565	2428	2287	714
25°	1567	1632	1646	1735	1750	716
35°	537	581	563	744	805	356
45°	80	94	109	242	293	76
55°	18	18	22	116	157	17
65°	9	9	11	52	65	9
75°	4	4	5	18	24	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°	2643.2	2643.2	2643.2	2643.2	2643.2	2643.2	2643.2	2643.2	2643.2
2.5°	2664.9	2688.5	2686.6	2668.6	2654.1	2648.6	2628.7	2605.2	2588.9
5°	2722.8	2751.8	2751.8	2737.3	2724.6	2693.9	2641.4	2590.8	2563.6
7.5°	2773.5	2802.4	2804.2	2793.4	2778.9	2728.3	2641.4	2560.0	2518.4
10°	2766.2	2788.0	2800.6	2789.8	2773.5	2706.5	2599.8	2491.2	2446.0
12.5°	2724.6	2744.5	2742.7	2726.4	2704.7	2636.0	2531.1	2418.9	2368.2
15°	2610.7	2621.5	2612.5	2594.4	2565.4	2513.0	2427.9	2332.0	2286.8
17.5°	2413.5	2427.9	2424.3	2395.4	2384.5	2333.9	2294.0	2219.9	2180.1
20°	2138.5	2183.7	2183.7	2162.0	2158.4	2124.0	2129.4	2089.6	2060.7
22.5°	1861.7	1901.5	1914.1	1905.1	1912.3	1896.0	1946.7	1935.8	1921.4
25°	1566.8	1606.6	1631.9	1628.3	1646.4	1646.4	1735.0	1756.7	1749.5
27.5°	1289.9	1327.9	1356.9	1364.1	1353.3	1373.2	1494.4	1537.8	1537.8
30°	1052.9	1083.7	1110.8	1110.8	1096.4	1110.8	1239.3	1289.9	1286.3
32.5°	785.2	819.6	844.9	841.3	828.6	848.5	984.2	1034.9	1022.2
35°	537.3	560.8	580.7	573.5	562.7	595.2	743.6	806.9	805.1
37.5°	363.6	385.4	398.0	392.6	389.0	427.0	562.7	633.2	629.6
40°	242.4	256.9	266.0	264.1	267.8	300.3	423.3	488.5	488.5
42.5°	153.8	162.8	171.9	171.9	180.9	215.3	322.0	378.1	378.1
45°	79.6	85.0	94.1	99.5	108.6	144.7	242.4	289.5	293.1
47.5°	38.0	39.8	43.4	45.2	52.5	90.5	186.3	237.0	247.9
50°	27.1	28.9	28.9	28.9	34.4	68.7	157.4	204.4	213.5
52.5°	21.7	21.7	21.7	23.5	27.1	57.9	135.7	177.3	184.5
55°	18.1	18.1	18.1	18.1	21.7	47.0	115.8	152.0	157.4
57.5°	14.5	14.5	14.5	14.5	18.1	38.0	95.9	121.2	123.0
60°	12.7	12.7	12.7	12.7	14.5	32.6	77.8	99.5	99.5
62.5°	10.9	10.9	10.9	10.9	12.7	27.1	65.1	81.4	79.6
65°	9.0	9.0	9.0	9.0	10.9	21.7	52.5	65.1	65.1
67.5°	7.2	7.2	7.2	7.2	9.0	18.1	41.6	52.5	52.5
70°	5.4	5.4	5.4	5.4	7.2	14.5	34.4	41.6	41.6
72.5°	5.4	5.4	5.4	5.4	5.4	10.9	25.3	32.6	30.8
75°	3.6	3.6	3.6	3.6	5.4	9.0	18.1	23.5	23.5
77.5°	3.6	3.6	3.6	3.6	3.6	7.2	14.5	16.3	16.3
80°	1.8	1.8	1.8	1.8	3.6	5.4	9.0	10.9	10.9
82.5°	0.0	1.8	0.0	1.8	1.8	3.6	7.2	7.2	7.2
85°	0.0	0.0	0.0	0.0	1.8	1.8	3.6	5.4	3.6
87.5°	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8
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)