

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: P857774

Luminaire Tested: **LD4C35D010 EU4359040 4LBMDSWWMH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P857774
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: LD4C35D010 EU4359040 4LBMDSWWMH
Description: 4 INCH 3500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH WMH FINISH
Light Source: -
Ballast/Driver: -

Summary

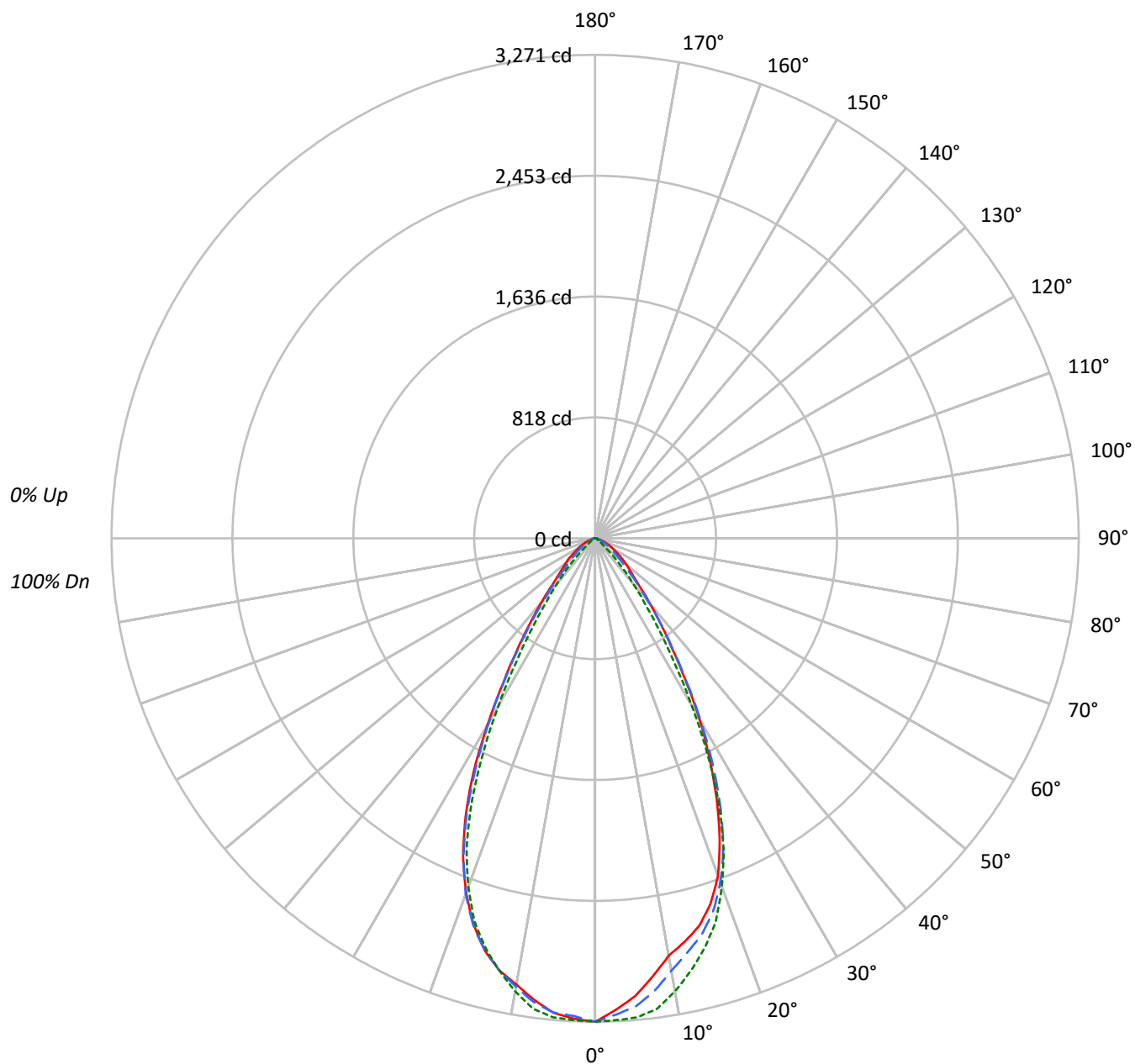
Lumens per Lamp: N/A
Luminaire Lumens: 2978.0 lumens
Efficiency: N/A
Efficacy: 73.7 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P857774

CATALOG NUMBER: LD4C35D010 EU4359040 4LBMDSWWMH

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	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°	401891	401891	401891
5°	383484	401243	397506
10°	357667	388230	382567
15°	345377	364659	367228
20°	317706	327616	333565
25°	263327	268112	281125
30°	200319	185268	206050
35°	135624	110998	137138
40°	92359	63604	89537
45°	64076	32038	60566
50°	52139	13035	48756
55°	42195	8118	38425
60°	33514	6216	30419
65°	26424	5145	23488
70°	19971	4526	18140
75°	14382	3607	13196
80°	10754	3608	8914
85°	7189	3524	7189



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	300.8	10.1
10°-20°	790.3	26.5
20°-30°	906.7	30.4
30°-40°	550.8	18.5
40°-50°	236.1	7.9
50°-60°	113.2	3.8
60°-70°	55.1	1.8
70°-80°	20.4	0.7
80°-90°	4.7	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°	1997.7	67.1
0°-40°	2548.5	85.6
0°-60°	2897.8	97.3
0°-90°	2978.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2978.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3271	3271	3271	3271	3271	
5°	3110	3178	3254	3221	3223	289
15°	2716	2779	2867	2885	2887	756
25°	1943	2006	1978	2054	2074	881
35°	904	917	740	894	914	580
45°	369	328	184	296	349	300
55°	197	146	38	131	179	178
65°	91	61	18	56	81	92
75°	30	20	8	18	28	33
85°	5	5	2	2	5	7
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°	3271.3	3271.3	3271.3	3271.3	3271.3	3271.3	3271.3	3271.3	3271.3
2.5°	3193.0	3228.3	3225.8	3256.1	3263.7	3256.1	3235.9	3256.1	3253.6
5°	3109.6	3150.0	3177.8	3228.3	3253.6	3248.6	3220.8	3225.8	3223.3
7.5°	2988.4	3038.9	3086.9	3162.7	3210.7	3208.1	3167.7	3160.1	3150.0
10°	2867.1	2915.1	2970.7	3049.0	3112.1	3122.3	3081.8	3071.7	3066.7
12.5°	2796.4	2834.3	2872.2	2940.4	2995.9	3016.2	2993.4	2995.9	2993.4
15°	2715.5	2753.4	2778.7	2829.2	2867.1	2894.9	2884.8	2900.0	2887.3
17.5°	2594.3	2639.8	2649.9	2687.8	2715.5	2733.2	2743.3	2758.5	2738.3
20°	2430.1	2465.5	2478.1	2493.3	2505.9	2528.6	2558.9	2574.1	2551.4
22.5°	2200.2	2268.4	2265.9	2258.3	2271.0	2278.5	2326.5	2351.8	2334.1
25°	1942.6	2013.3	2005.7	1975.4	1977.9	1993.1	2053.7	2086.6	2073.9
27.5°	1672.3	1738.0	1720.3	1662.2	1647.0	1669.7	1748.1	1785.9	1778.4
30°	1412.1	1455.0	1427.2	1323.7	1306.0	1333.8	1434.8	1472.7	1452.5
32.5°	1131.7	1164.5	1151.9	1025.6	995.3	1023.1	1141.8	1177.2	1154.4
35°	904.3	934.7	917.0	767.9	740.1	770.5	894.2	934.7	914.4
37.5°	725.0	747.7	725.0	565.8	540.6	570.9	689.6	742.7	717.4
40°	575.9	593.6	563.3	416.8	396.6	411.8	522.9	575.9	558.3
42.5°	454.7	467.3	434.5	305.7	282.9	303.1	394.1	442.1	432.0
45°	368.8	368.8	328.4	212.2	184.4	204.6	295.6	346.1	348.6
47.5°	315.8	308.2	257.7	141.5	106.1	133.9	234.9	288.0	295.6
50°	272.8	262.7	212.2	103.6	68.2	96.0	194.5	247.6	255.1
52.5°	234.9	227.3	176.8	80.8	48.0	73.3	164.2	214.7	222.3
55°	197.0	192.0	146.5	63.2	37.9	55.6	131.4	174.3	179.4
57.5°	161.7	154.1	118.7	53.0	30.3	45.5	108.6	144.0	149.0
60°	136.4	128.8	96.0	42.9	25.3	35.4	88.4	118.7	123.8
62.5°	113.7	106.1	78.3	35.4	20.2	30.3	70.7	96.0	101.0
65°	90.9	85.9	60.6	27.8	17.7	22.7	55.6	75.8	80.8
67.5°	73.3	68.2	48.0	22.7	15.2	17.7	42.9	60.6	65.7
70°	55.6	50.5	35.4	17.7	12.6	15.2	32.8	45.5	50.5
72.5°	40.4	37.9	27.8	15.2	10.1	12.6	22.7	32.8	37.9
75°	30.3	27.8	20.2	10.1	7.6	10.1	17.7	25.3	27.8
77.5°	20.2	20.2	15.2	7.6	7.6	7.6	12.6	17.7	17.7
80°	15.2	12.6	10.1	5.1	5.1	5.1	7.6	12.6	12.6
82.5°	10.1	7.6	7.6	5.1	5.1	5.1	5.1	7.6	7.6
85°	5.1	5.1	5.1	2.5	2.5	2.5	2.5	5.1	5.1
87.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
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)