

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: P857950

Luminaire Tested: **LD4C40D010 EU4409040 4LBMDSWWMH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P857950
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: LD4C40D010 EU4409040 4LBMDSWWMH
Description: 4 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH WMH FINISH
Light Source: -
Ballast/Driver: -

Summary

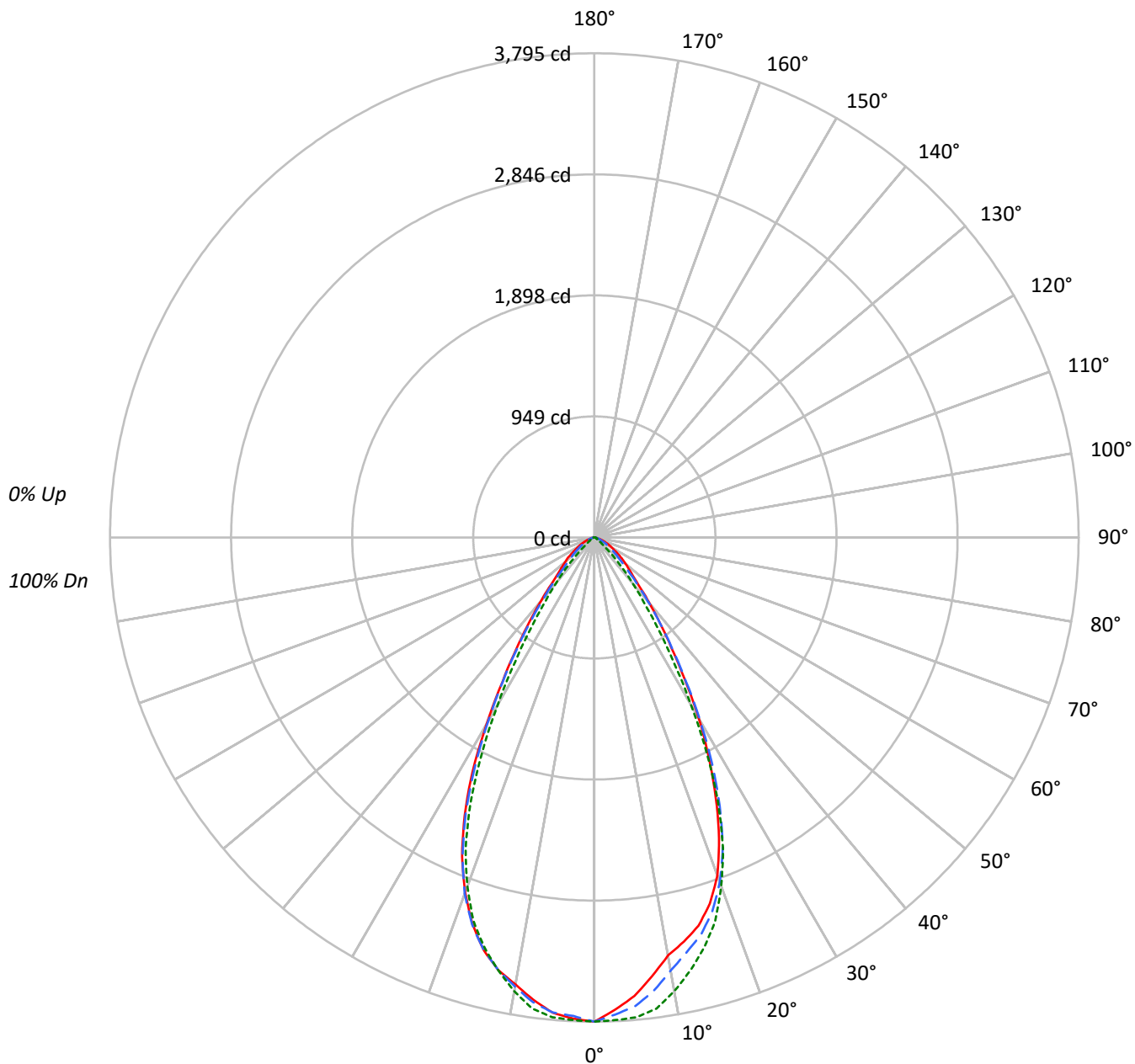
Lumens per Lamp: N/A
Luminaire Lumens: 3455.0 lumens
Efficiency: N/A
Efficacy: 73.5 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 47
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	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°	466266	466266	466266
5°	444912	465519	461178
10°	414964	450418	443843
15°	400704	423076	426052
20°	368589	380094	386984
25°	305498	311055	326156
30°	232408	214945	239061
35°	157355	128785	159110
40°	107162	73788	103874
45°	74344	37163	70261
50°	60491	15118	56573
55°	48963	9424	44573
60°	38895	7199	35284
65°	30668	5959	27267
70°	23168	5280	21049
75°	16708	4177	15284
80°	12452	4174	10400
85°	8317	4088	8317



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.9	10.1
10°-20°	916.8	26.5
20°-30°	1051.9	30.4
30°-40°	639.0	18.5
40°-50°	273.9	7.9
50°-60°	131.4	3.8
60°-70°	63.9	1.8
70°-80°	23.7	0.7
80°-90°	5.5	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°	2317.7	67.1
0°-40°	2956.7	85.6
0°-60°	3362.0	97.3
0°-90°	3455.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3455.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3795	3795	3795	3795	3795	
5°	3608	3687	3775	3737	3740	335
15°	3150	3224	3326	3347	3350	877
25°	2254	2327	2295	2383	2406	1022
35°	1049	1064	859	1038	1061	672
45°	428	381	214	343	404	348
55°	229	170	44	152	208	206
65°	106	70	20	64	94	107
75°	35	23	9	20	32	39
85°	6	6	3	3	6	8
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°	3795.3	3795.3	3795.3	3795.3	3795.3	3795.3	3795.3	3795.3	3795.3
2.5°	3704.4	3745.4	3742.5	3777.7	3786.5	3777.7	3754.2	3777.7	3774.8
5°	3607.7	3654.6	3686.8	3745.4	3774.8	3768.9	3736.7	3742.5	3739.6
7.5°	3467.0	3525.6	3581.3	3669.2	3724.9	3722.0	3675.1	3666.3	3654.6
10°	3326.4	3382.0	3446.5	3537.4	3610.6	3622.4	3575.5	3563.7	3557.9
12.5°	3244.3	3288.3	3332.2	3411.3	3475.8	3499.3	3472.9	3475.8	3472.9
15°	3150.5	3194.5	3223.8	3282.4	3326.4	3358.6	3346.9	3364.5	3349.8
17.5°	3009.8	3062.6	3074.3	3118.3	3150.5	3171.0	3182.7	3200.3	3176.9
20°	2819.3	2860.4	2875.0	2892.6	2907.3	2933.6	2968.8	2986.4	2960.0
22.5°	2552.6	2631.8	2628.8	2620.1	2634.7	2643.5	2699.2	2728.5	2708.0
25°	2253.7	2335.8	2327.0	2291.8	2294.7	2312.3	2382.7	2420.8	2406.1
27.5°	1940.1	2016.3	1995.8	1928.4	1910.8	1937.2	2028.1	2072.0	2063.2
30°	1638.3	1688.1	1655.9	1535.7	1515.2	1547.4	1664.6	1708.6	1685.2
32.5°	1313.0	1351.1	1336.4	1189.9	1154.7	1186.9	1324.7	1365.7	1339.3
35°	1049.2	1084.4	1063.8	890.9	858.7	893.9	1037.5	1084.4	1060.9
37.5°	841.1	867.5	841.1	656.5	627.2	662.3	800.1	861.6	832.3
40°	668.2	688.7	653.5	483.6	460.1	477.7	606.7	668.2	647.7
42.5°	527.5	542.2	504.1	354.6	328.2	351.7	457.2	512.9	501.2
45°	427.9	427.9	381.0	246.2	213.9	237.4	342.9	401.5	404.4
47.5°	366.3	357.5	298.9	164.1	123.1	155.3	272.6	334.1	342.9
50°	316.5	304.8	246.2	120.2	79.1	111.4	225.7	287.2	296.0
52.5°	272.6	263.8	205.1	93.8	55.7	85.0	190.5	249.1	257.9
55°	228.6	222.7	170.0	73.3	44.0	64.5	152.4	202.2	208.1
57.5°	187.6	178.8	137.7	61.5	35.2	52.8	126.0	167.1	172.9
60°	158.3	149.5	111.4	49.8	29.3	41.0	102.6	137.7	143.6
62.5°	131.9	123.1	90.9	41.0	23.4	35.2	82.1	111.4	117.2
65°	105.5	99.6	70.3	32.2	20.5	26.4	64.5	87.9	93.8
67.5°	85.0	79.1	55.7	26.4	17.6	20.5	49.8	70.3	76.2
70°	64.5	58.6	41.0	20.5	14.7	17.6	38.1	52.8	58.6
72.5°	46.9	44.0	32.2	17.6	11.7	14.7	26.4	38.1	44.0
75°	35.2	32.2	23.4	11.7	8.8	11.7	20.5	29.3	32.2
77.5°	23.4	23.4	17.6	8.8	8.8	8.8	14.7	20.5	20.5
80°	17.6	14.7	11.7	5.9	5.9	5.9	8.8	14.7	14.7
82.5°	11.7	8.8	8.8	5.9	5.9	5.9	5.9	8.8	8.8
85°	5.9	5.9	5.9	2.9	2.9	2.9	2.9	5.9	5.9
87.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
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)