

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: P857967

Luminaire Tested: **LD4C40D010 EU4409050 4LBMDSWH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P857967
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 EU4409050 4LBMDSWH
Description: 4 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

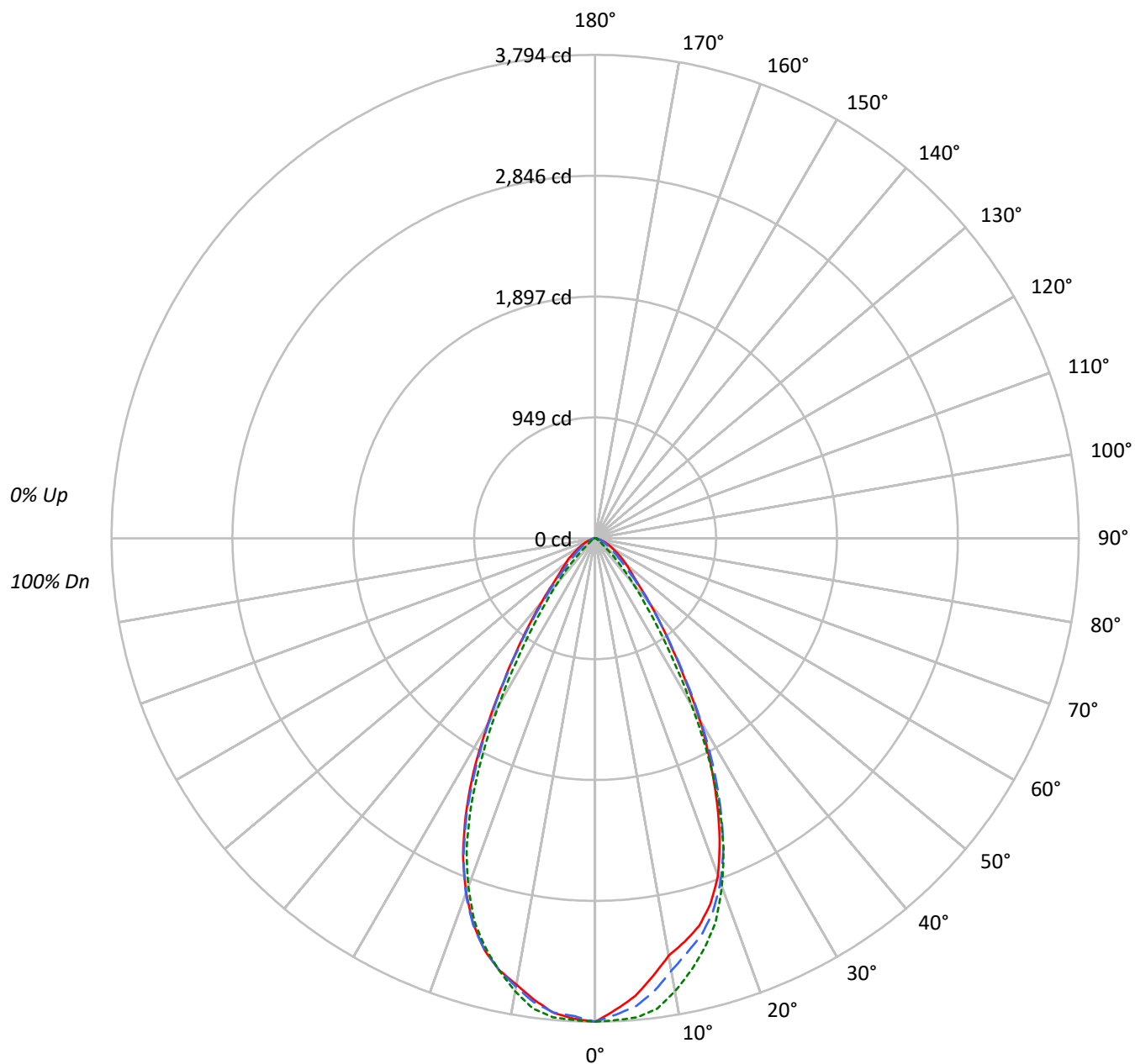
Lumens per Lamp: N/A
Luminaire Lumens: 3454.0 lumens
Efficiency: N/A
Efficacy: 73.5 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	466131	466131	466131
5°	444788	465383	461042
10°	414839	450293	443719
15°	400589	422949	425925
20°	368485	379977	386880
25°	305416	310974	326061
30°	232337	214874	238990
35°	157310	128740	159065
40°	107130	73772	103842
45°	74326	37163	70244
50°	60472	15118	56554
55°	48942	9403	44551
60°	38871	7199	35284
65°	30668	5959	27267
70°	23168	5244	21049
75°	16708	4177	15284
80°	12452	4174	10329
85°	8317	4088	8317



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.8	10.1
10°-20°	916.6	26.5
20°-30°	1051.6	30.4
30°-40°	638.8	18.5
40°-50°	273.8	7.9
50°-60°	131.3	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°	2317.0	67.1
0°-40°	2955.9	85.6
0°-60°	3361.0	97.3
0°-90°	3454.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3454.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3794	3794	3794	3794	3794	
5°	3607	3686	3774	3736	3738	335
15°	3150	3223	3325	3346	3349	877
25°	2253	2326	2294	2382	2405	1022
35°	1049	1064	858	1037	1061	672
45°	428	381	214	343	404	348
55°	228	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°	3794.2	3794.2	3794.2	3794.2	3794.2	3794.2	3794.2	3794.2	3794.2
2.5°	3703.3	3744.4	3741.4	3776.6	3785.4	3776.6	3753.2	3776.6	3773.7
5°	3606.7	3653.5	3685.8	3744.4	3773.7	3767.8	3735.6	3741.4	3738.5
7.5°	3466.0	3524.6	3580.3	3668.2	3723.9	3720.9	3674.0	3665.3	3653.5
10°	3325.4	3381.1	3445.5	3536.3	3609.6	3621.3	3574.4	3562.7	3556.9
12.5°	3243.4	3287.3	3331.3	3410.4	3474.8	3498.3	3471.9	3474.8	3471.9
15°	3149.6	3193.5	3222.8	3281.4	3325.4	3357.6	3345.9	3363.5	3348.8
17.5°	3009.0	3061.7	3073.4	3117.4	3149.6	3170.1	3181.8	3199.4	3176.0
20°	2818.5	2859.5	2874.2	2891.8	2906.4	2932.8	2967.9	2985.5	2959.2
22.5°	2551.9	2631.0	2628.1	2619.3	2633.9	2642.7	2698.4	2727.7	2707.2
25°	2253.1	2335.1	2326.3	2291.2	2294.1	2311.7	2382.0	2420.1	2405.4
27.5°	1939.6	2015.7	1995.2	1927.8	1910.3	1936.6	2027.5	2071.4	2062.6
30°	1637.8	1687.6	1655.4	1535.2	1514.7	1547.0	1664.2	1708.1	1684.7
32.5°	1312.6	1350.7	1336.0	1189.5	1154.4	1186.6	1324.3	1365.3	1338.9
35°	1048.9	1084.0	1063.5	890.7	858.4	893.6	1037.2	1084.0	1060.6
37.5°	840.9	867.2	840.9	656.3	627.0	662.1	799.9	861.4	832.1
40°	668.0	688.5	653.4	483.4	460.0	477.6	606.5	668.0	647.5
42.5°	527.4	542.0	503.9	354.5	328.1	351.6	457.1	512.7	501.0
45°	427.8	427.8	380.9	246.1	213.9	237.3	342.8	401.4	404.3
47.5°	366.2	357.4	298.8	164.1	123.1	155.3	272.5	334.0	342.8
50°	316.4	304.7	246.1	120.1	79.1	111.3	225.6	287.1	295.9
52.5°	272.5	263.7	205.1	93.8	55.7	85.0	190.4	249.0	257.8
55°	228.5	222.7	169.9	73.2	43.9	64.5	152.4	202.2	208.0
57.5°	187.5	178.7	137.7	61.5	35.2	52.7	126.0	167.0	172.9
60°	158.2	149.4	111.3	49.8	29.3	41.0	102.5	137.7	143.6
62.5°	131.8	123.1	90.8	41.0	23.4	35.2	82.0	111.3	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	14.6	17.6	38.1	52.7	58.6
72.5°	46.9	43.9	32.2	17.6	11.7	14.6	26.4	38.1	43.9
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	14.6	20.5	20.5
80°	17.6	14.6	11.7	5.9	5.9	5.9	8.8	14.6	14.6
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)