

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: P858119

Luminaire Tested: **LD4C45D010 EU4459030 4LBMDSWH**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P858119
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: LD4C45D010 EU4459030 4LBMDSWH
Description: 4 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

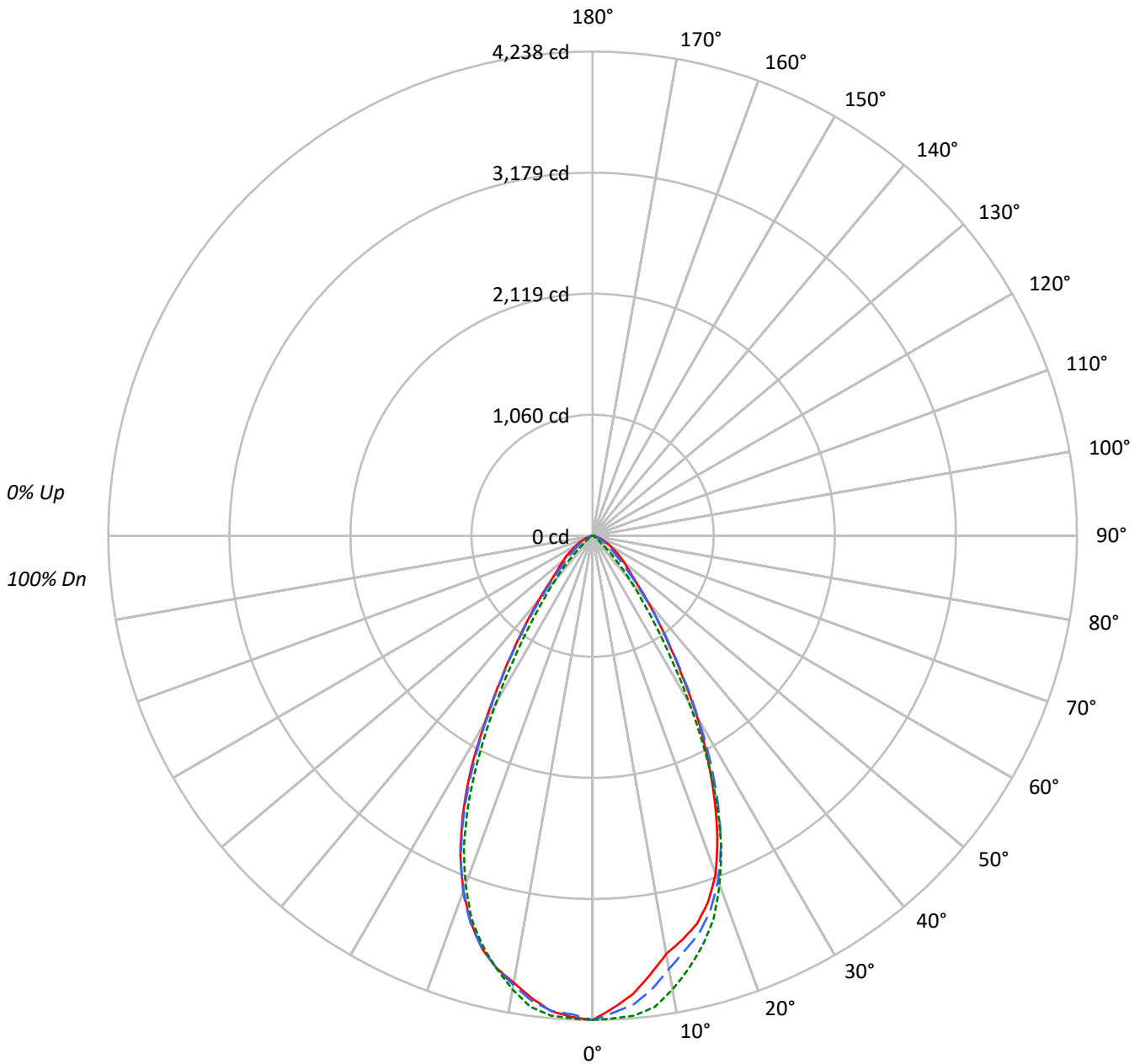
Lumens per Lamp: N/A
Luminaire Lumens: 3858.0 lumens
Efficiency: N/A
Efficacy: 77.8 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 49.6
Input Voltage (V): NR
Input Current (A_{in}): 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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92					92			
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85					85			
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78					78			
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	72					72			
5	91	82	75	71	89	81	75	71	79	74	70	77	73	69	76	72	69	67					67			
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62					62			
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58					58			
8	77	67	61	57	76	67	61	57	66	60	56	65	60	56	64	59	56	55					55			
9	74	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	53	51					51			
10	70	60	54	50	69	60	54	50	59	53	50	58	53	50	57	53	49	48					48			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	520653	520653	520653
5°	496806	519805	514971
10°	463354	502962	495614
15°	447445	472412	475744
20°	411589	424428	432128
25°	341135	347343	364206
30°	259517	240011	266936
35°	175712	143812	177677
40°	119655	82400	115982
45°	83013	41507	78461
50°	67544	16896	63167
55°	54682	10517	49777
60°	43416	8035	39411
65°	34244	6657	30436
70°	25862	5891	23528
75°	18655	4652	17088
80°	13867	4599	11603
85°	9162	4652	9162



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	389.6	10.1
10°-20°	1023.8	26.5
20°-30°	1174.6	30.4
30°-40°	713.6	18.5
40°-50°	305.8	7.9
50°-60°	146.7	3.8
60°-70°	71.3	1.8
70°-80°	26.5	0.7
80°-90°	6.1	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°	2588.0	67.1
0°-40°	3301.6	85.6
0°-60°	3754.1	97.3
0°-90°	3858.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3858.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4238	4238	4238	4238	4238	
5°	4028	4117	4215	4172	4176	374
15°	3518	3600	3714	3737	3740	979
25°	2517	2598	2562	2661	2687	1142
35°	1172	1188	959	1158	1185	751
45°	478	425	239	383	452	388
55°	255	190	49	170	232	230
65°	118	78	23	72	105	120
75°	39	26	10	23	36	43
85°	6	6	3	3	6	9
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°	4238.0	4238.0	4238.0	4238.0	4238.0	4238.0	4238.0	4238.0	4238.0
2.5°	4136.5	4182.3	4179.1	4218.3	4228.1	4218.3	4192.1	4218.3	4215.0
5°	4028.5	4080.9	4116.9	4182.3	4215.0	4208.5	4172.5	4179.1	4175.8
7.5°	3871.4	3936.9	3999.1	4097.2	4159.4	4156.1	4103.8	4094.0	4080.9
10°	3714.3	3776.5	3848.5	3950.0	4031.8	4044.9	3992.5	3979.4	3972.9
12.5°	3622.7	3671.8	3720.9	3809.3	3881.2	3907.4	3878.0	3881.2	3878.0
15°	3518.0	3567.1	3599.8	3665.3	3714.3	3750.3	3737.3	3756.9	3740.5
17.5°	3360.9	3419.8	3432.9	3482.0	3518.0	3540.9	3554.0	3573.6	3547.4
20°	3148.2	3194.0	3210.4	3230.0	3246.4	3275.8	3315.1	3334.7	3305.3
22.5°	2850.4	2938.8	2935.5	2925.7	2942.0	2951.8	3014.0	3046.7	3023.8
25°	2516.6	2608.2	2598.4	2559.1	2562.4	2582.0	2660.6	2703.1	2686.8
27.5°	2166.4	2251.5	2228.6	2153.3	2133.7	2163.2	2264.6	2313.7	2303.9
30°	1829.4	1885.0	1849.0	1714.8	1691.9	1727.9	1858.8	1907.9	1881.7
32.5°	1466.1	1508.6	1492.3	1328.7	1289.4	1325.4	1479.2	1525.0	1495.6
35°	1171.6	1210.8	1187.9	994.9	958.9	998.1	1158.5	1210.8	1184.7
37.5°	939.2	968.7	939.2	733.1	700.3	739.6	893.4	962.1	929.4
40°	746.1	769.1	729.8	540.0	513.8	533.4	677.4	746.1	723.2
42.5°	589.1	605.4	562.9	396.0	366.5	392.7	510.5	572.7	559.6
45°	477.8	477.8	425.4	274.9	238.9	265.1	382.9	448.3	451.6
47.5°	409.1	399.3	333.8	183.3	137.4	173.4	304.3	373.1	382.9
50°	353.4	340.3	274.9	134.2	88.4	124.4	252.0	320.7	330.5
52.5°	304.3	294.5	229.1	104.7	62.2	94.9	212.7	278.2	288.0
55°	255.3	248.7	189.8	81.8	49.1	72.0	170.2	225.8	232.4
57.5°	209.4	199.6	153.8	68.7	39.3	58.9	140.7	186.5	193.1
60°	176.7	166.9	124.4	55.6	32.7	45.8	114.5	153.8	160.4
62.5°	147.3	137.4	101.4	45.8	26.2	39.3	91.6	124.4	130.9
65°	117.8	111.3	78.5	36.0	22.9	29.5	72.0	98.2	104.7
67.5°	94.9	88.4	62.2	29.5	19.6	22.9	55.6	78.5	85.1
70°	72.0	65.5	45.8	22.9	16.4	19.6	42.5	58.9	65.5
72.5°	52.4	49.1	36.0	19.6	13.1	16.4	29.5	42.5	49.1
75°	39.3	36.0	26.2	13.1	9.8	13.1	22.9	32.7	36.0
77.5°	26.2	26.2	19.6	9.8	9.8	9.8	16.4	22.9	22.9
80°	19.6	16.4	13.1	6.5	6.5	6.5	9.8	16.4	16.4
82.5°	13.1	9.8	9.8	6.5	6.5	6.5	6.5	9.8	9.8
85°	6.5	6.5	6.5	3.3	3.3	3.3	3.3	6.5	6.5
87.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
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)