

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: P858971

Luminaire Tested: **LD4C50D010 EU4509030 4LBMDSWMW**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P858971
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: LD4C50D010 EU4509030 4LBMDSWMW
Description: 4 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

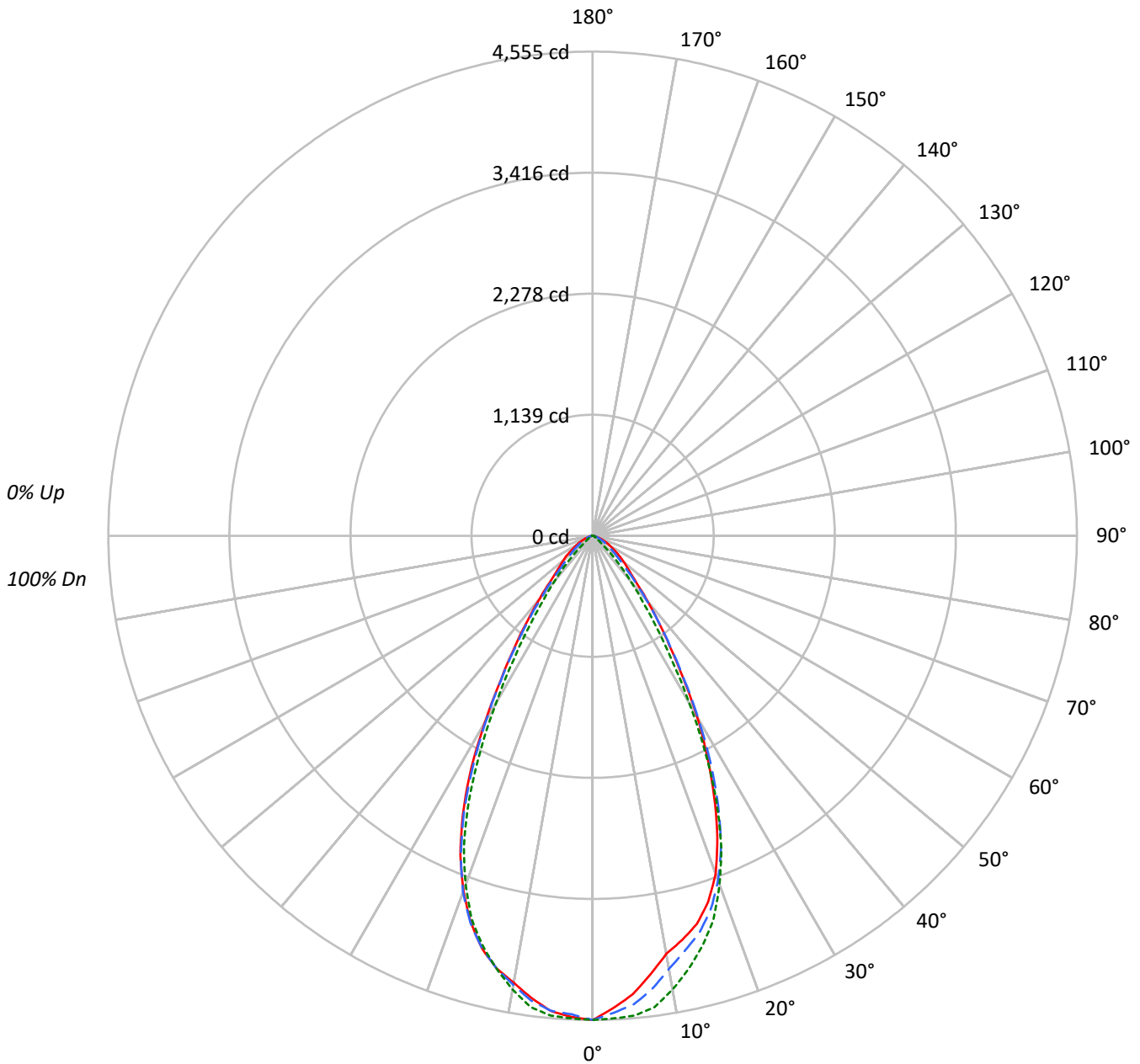
Lumens per Lamp: N/A
Luminaire Lumens: 4147.0 lumens
Efficiency: N/A
Efficacy: 71.0 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 58.4
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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92	92	92	92
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85	85	85	85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78	78	78	78
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	72	72	72	72
5	91	82	75	71	89	81	75	71	79	74	70	77	73	69	76	72	69	67	67	67	67
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62	62	62	62
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58	58	58	58
8	77	67	61	57	76	67	61	57	66	60	56	65	60	56	64	59	56	55	55	55	55
9	74	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	53	51	51	51	51
10	70	60	54	50	69	60	54	50	59	53	50	58	53	50	57	53	49	48	48	48	48

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	559647	559647	559647
5°	534025	558751	553547
10°	498072	540636	532739
15°	480959	507808	511382
20°	442417	456223	464499
25°	366687	373369	391479
30°	278951	257985	286938
35°	188865	154581	190980
40°	128620	88574	124675
45°	89233	44617	84334
50°	72609	18157	67907
55°	58773	11309	53504
60°	46684	8649	42360
65°	36802	7151	32732
70°	27802	6322	25288
75°	20031	5031	18370
80°	14928	4952	12452
85°	9867	4934	9867



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	418.8	10.1
10°-20°	1100.5	26.5
20°-30°	1262.6	30.4
30°-40°	767.0	18.5
40°-50°	328.7	7.9
50°-60°	157.7	3.8
60°-70°	76.7	1.8
70°-80°	28.5	0.7
80°-90°	6.5	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°	2781.9	67.1
0°-40°	3548.9	85.6
0°-60°	4035.3	97.3
0°-90°	4147.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4147.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4555	4555	4555	4555	4555	
5°	4330	4425	4531	4485	4489	402
15°	3782	3870	3993	4017	4021	1053
25°	2705	2793	2754	2860	2888	1227
35°	1259	1277	1031	1245	1273	807
45°	514	457	257	412	485	417
55°	274	204	53	183	250	248
65°	127	84	25	77	113	128
75°	42	28	11	25	39	46
85°	7	7	4	4	7	10
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°	4555.4	4555.4	4555.4	4555.4	4555.4	4555.4	4555.4	4555.4	4555.4
2.5°	4446.4	4495.6	4492.1	4534.3	4544.9	4534.3	4506.2	4534.3	4530.8
5°	4330.3	4386.6	4425.3	4495.6	4530.8	4523.8	4485.1	4492.1	4488.6
7.5°	4161.4	4231.8	4298.6	4404.2	4471.0	4467.5	4411.2	4400.6	4386.6
10°	3992.6	4059.4	4136.8	4245.9	4333.8	4347.9	4291.6	4277.5	4270.5
12.5°	3894.1	3946.9	3999.6	4094.6	4172.0	4200.1	4168.5	4172.0	4168.5
15°	3781.5	3834.3	3869.5	3939.8	3992.6	4031.3	4017.2	4038.3	4020.7
17.5°	3612.7	3676.0	3690.1	3742.8	3781.5	3806.1	3820.2	3841.3	3813.2
20°	3384.0	3433.3	3450.9	3472.0	3489.6	3521.2	3563.4	3584.5	3552.9
22.5°	3063.9	3158.9	3155.4	3144.8	3162.4	3173.0	3239.8	3275.0	3250.4
25°	2705.1	2803.6	2793.1	2750.8	2754.4	2775.5	2859.9	2905.6	2888.0
27.5°	2328.7	2420.2	2395.6	2314.6	2293.5	2325.2	2434.2	2487.0	2476.5
30°	1966.4	2026.2	1987.5	1843.3	1818.6	1857.3	1998.1	2050.8	2022.7
32.5°	1575.9	1621.7	1604.1	1428.2	1386.0	1424.7	1590.0	1639.2	1607.6
35°	1259.3	1301.5	1276.9	1069.4	1030.7	1072.9	1245.3	1301.5	1273.4
37.5°	1009.6	1041.2	1009.6	788.0	752.8	795.0	960.3	1034.2	999.0
40°	802.0	826.7	784.4	580.4	552.3	573.4	728.2	802.0	777.4
42.5°	633.2	650.8	605.0	425.6	394.0	422.1	548.8	615.6	601.5
45°	513.6	513.6	457.3	295.5	256.8	284.9	411.6	481.9	485.4
47.5°	439.7	429.2	358.8	197.0	147.7	186.4	327.1	401.0	411.6
50°	379.9	365.8	295.5	144.2	95.0	133.7	270.9	344.7	355.3
52.5°	327.1	316.6	246.2	112.6	66.8	102.0	228.7	299.0	309.6
55°	274.4	267.3	204.0	87.9	52.8	77.4	182.9	242.7	249.8
57.5°	225.1	214.6	165.3	73.9	42.2	63.3	151.3	200.5	207.5
60°	190.0	179.4	133.7	59.8	35.2	49.2	123.1	165.3	172.4
62.5°	158.3	147.7	109.0	49.2	28.1	42.2	98.5	133.7	140.7
65°	126.6	119.6	84.4	38.7	24.6	31.7	77.4	105.5	112.6
67.5°	102.0	95.0	66.8	31.7	21.1	24.6	59.8	84.4	91.5
70°	77.4	70.4	49.2	24.6	17.6	21.1	45.7	63.3	70.4
72.5°	56.3	52.8	38.7	21.1	14.1	17.6	31.7	45.7	52.8
75°	42.2	38.7	28.1	14.1	10.6	14.1	24.6	35.2	38.7
77.5°	28.1	28.1	21.1	10.6	10.6	10.6	17.6	24.6	24.6
80°	21.1	17.6	14.1	7.0	7.0	7.0	10.6	17.6	17.6
82.5°	14.1	10.6	10.6	7.0	7.0	7.0	7.0	10.6	10.6
85°	7.0	7.0	7.0	3.5	3.5	3.5	3.5	7.0	7.0
87.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
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)