

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: P859143

Luminaire Tested: **LD4C55D010 EU4559050 4LBMDSWLI**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859143
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2309-186-1)
Test Lab: INNOVATION CENTER
Issue Date: 4/12/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C55D010 EU4559050 4LBMDSWLI
Description: 4 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

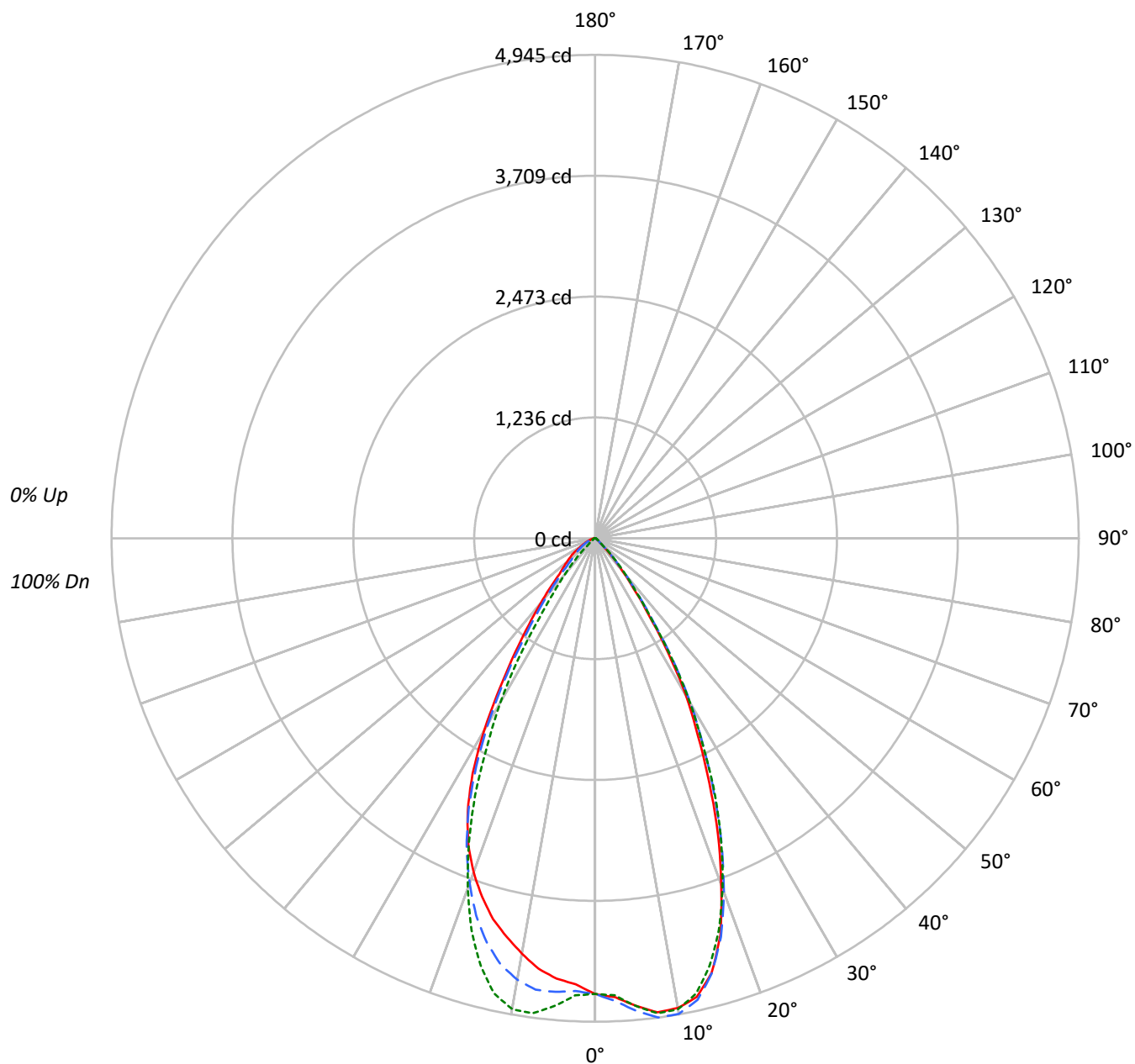
Lumens per Lamp: N/A
Luminaire Lumens: 4144.0 lumens
Efficiency: N/A
Efficacy: 64.9 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 63.9
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	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93		
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	87		
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	80		
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75		
5	92	84	78	74	91	83	77	73	81	76	73	79	75	72	78	74	71	70		
6	88	79	73	68	86	78	72	68	76	71	68	75	71	67	74	70	67	65		
7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	61		
8	79	70	64	60	78	69	64	60	68	63	59	67	63	59	66	62	59	58		
9	76	66	60	56	75	66	60	56	65	60	56	64	59	56	63	59	56	54		
10	72	63	57	53	71	62	57	53	61	56	53	61	56	53	60	56	52	51		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	572632	572632	572632
5°	592122	592517	557505
10°	608524	610121	538079
15°	585519	575383	512895
20°	493013	497602	475076
25°	374508	393540	418184
30°	263404	274256	321779
35°	142103	148807	212921
40°	68560	75729	138146
45°	24393	33254	89789
50°	9155	11582	71959
55°	6833	8203	59459
60°	5479	6266	43122
65°	4651	5552	33401
70°	3448	4598	26365
75°	3038	4557	19699
80°	2264	4528	13513
85°	0	4511	9021



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	453.8	11.0
10°-20°	1224.3	29.5
20°-30°	1328.1	32.0
30°-40°	736.8	17.8
40°-50°	234.7	5.7
50°-60°	94.6	2.3
60°-70°	47.9	1.2
70°-80°	19.8	0.5
80°-90°	4.1	0.1
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°	3006.2	72.5
0°-40°	3743.0	90.3
0°-60°	4072.3	98.3
0°-90°	4144.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4144.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4661	4661	4661	4661	4661	
5°	4801	4852	4805	4658	4521	461
15°	4604	4607	4524	4281	4033	1259
25°	2763	2878	2903	3060	3085	1262
35°	948	1024	992	1311	1420	629
45°	140	166	191	428	517	135
55°	32	32	38	204	278	29
65°	16	16	19	92	115	16
75°	6	6	10	32	42	8
85°	0	0	3	6	6	0
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°	4661.1	4661.1	4661.1	4661.1	4661.1	4661.1	4661.1	4661.1	4661.1
2.5°	4699.4	4740.8	4737.6	4705.7	4680.2	4670.6	4635.5	4594.1	4565.4
5°	4801.4	4852.5	4852.5	4827.0	4804.6	4750.4	4657.9	4568.5	4520.7
7.5°	4890.8	4941.8	4945.0	4925.9	4900.3	4811.0	4657.9	4514.3	4440.9
10°	4878.0	4916.3	4938.6	4919.5	4890.8	4772.7	4584.5	4393.1	4313.3
12.5°	4804.6	4839.7	4836.5	4807.8	4769.5	4648.3	4463.3	4265.5	4176.1
15°	4603.6	4622.8	4606.8	4574.9	4523.9	4431.4	4281.4	4112.3	4032.6
17.5°	4255.9	4281.4	4275.0	4224.0	4204.9	4115.5	4045.3	3914.5	3844.3
20°	3771.0	3850.7	3850.7	3812.4	3806.1	3745.4	3755.0	3684.8	3633.8
22.5°	3282.8	3353.0	3375.4	3359.4	3372.2	3343.5	3432.8	3413.7	3388.1
25°	2762.8	2833.0	2877.7	2871.3	2903.2	2903.2	3059.5	3097.8	3085.0
27.5°	2274.7	2341.7	2392.7	2405.5	2386.4	2421.5	2635.2	2711.8	2711.8
30°	1856.8	1911.0	1958.9	1958.9	1933.3	1958.9	2185.4	2274.7	2268.3
32.5°	1384.6	1445.2	1489.9	1483.5	1461.2	1496.3	1735.5	1824.9	1802.5
35°	947.5	989.0	1024.1	1011.3	992.2	1049.6	1311.2	1422.9	1419.7
37.5°	641.3	679.5	701.9	692.3	685.9	752.9	992.2	1116.6	1110.2
40°	427.5	453.0	469.0	465.8	472.2	529.6	746.5	861.4	861.4
42.5°	271.2	287.1	303.1	303.1	319.0	379.6	567.9	666.8	666.8
45°	140.4	149.9	165.9	175.5	191.4	255.2	427.5	510.5	516.8
47.5°	67.0	70.2	76.6	79.8	92.5	159.5	328.6	417.9	437.1
50°	47.9	51.0	51.0	51.0	60.6	121.2	277.6	360.5	376.5
52.5°	38.3	38.3	38.3	41.5	47.9	102.1	239.3	312.7	325.4
55°	31.9	31.9	31.9	31.9	38.3	82.9	204.2	268.0	277.6
57.5°	25.5	25.5	25.5	25.5	31.9	67.0	169.1	213.8	216.9
60°	22.3	22.3	22.3	22.3	25.5	57.4	137.2	175.5	175.5
62.5°	19.1	19.1	19.1	19.1	22.3	47.9	114.9	143.6	140.4
65°	16.0	16.0	16.0	16.0	19.1	38.3	92.5	114.9	114.9
67.5°	12.8	12.8	12.8	12.8	16.0	31.9	73.4	92.5	92.5
70°	9.6	9.6	9.6	9.6	12.8	25.5	60.6	73.4	73.4
72.5°	9.6	9.6	9.6	9.6	9.6	19.1	44.7	57.4	54.2
75°	6.4	6.4	6.4	6.4	9.6	16.0	31.9	41.5	41.5
77.5°	6.4	6.4	6.4	6.4	6.4	12.8	25.5	28.7	28.7
80°	3.2	3.2	3.2	3.2	6.4	9.6	16.0	19.1	19.1
82.5°	0.0	3.2	0.0	3.2	3.2	6.4	12.8	12.8	12.8
85°	0.0	0.0	0.0	0.0	3.2	3.2	6.4	9.6	6.4
87.5°	0.0	0.0	0.0	0.0	0.0	3.2	3.2	3.2	3.2
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)