

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: P859059

Luminaire Tested: **LD4C55D010 EU4559027 4LBMDSWH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859059
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: LD4C55D010 EU4559027 4LBMDSWH
Description: 4 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBMDSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

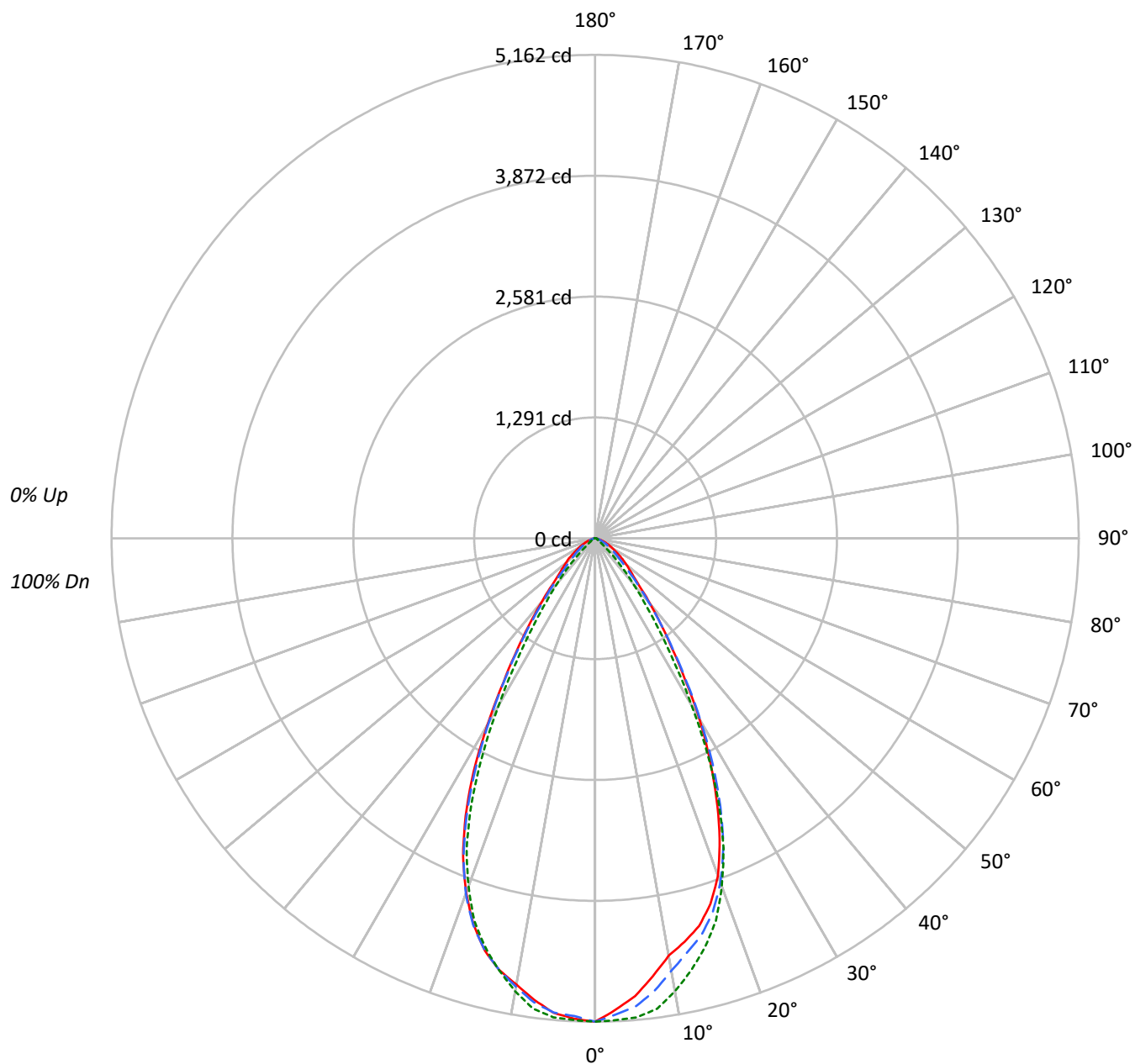
Lumens per Lamp: N/A
Luminaire Lumens: 4699.0 lumens
Efficiency: N/A
Efficacy: 73.5 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	634145	634145	634145
5°	605108	633127	627232
10°	564363	612603	603646
15°	544985	575395	579453
20°	501315	516938	526325
25°	415500	423063	443600
30°	316076	292329	325127
35°	214016	175157	216401
40°	145748	100362	141273
45°	101100	50559	95575
50°	82280	20565	76947
55°	66591	12808	60615
60°	52876	9804	47987
65°	41715	8110	37064
70°	31502	7148	28628
75°	22689	5696	20791
80°	16909	5660	14079
85°	11277	5638	11277



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	474.6	10.1
10°-20°	1246.9	26.5
20°-30°	1430.7	30.4
30°-40°	869.1	18.5
40°-50°	372.5	7.9
50°-60°	178.7	3.8
60°-70°	86.9	1.8
70°-80°	32.2	0.7
80°-90°	7.4	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°	3152.2	67.1
0°-40°	4021.3	85.6
0°-60°	4572.5	97.3
0°-90°	4699.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4699.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5162	5162	5162	5162	5162	
5°	4907	5014	5134	5082	5086	456
15°	4285	4384	4524	4552	4556	1193
25°	3065	3165	3121	3241	3272	1390
35°	1427	1447	1168	1411	1443	915
45°	582	518	291	466	550	473
55°	311	231	60	207	283	281
65°	144	96	28	88	128	146
75°	48	32	12	28	44	52
85°	8	8	4	4	8	11
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°	5161.8	5161.8	5161.8	5161.8	5161.8	5161.8	5161.8	5161.8	5161.8
2.5°	5038.2	5094.0	5090.0	5137.9	5149.8	5137.9	5106.0	5137.9	5133.9
5°	4906.7	4970.5	5014.3	5094.0	5133.9	5125.9	5082.1	5090.0	5086.1
7.5°	4715.4	4795.1	4870.8	4990.4	5066.1	5062.1	4998.4	4986.4	4970.5
10°	4524.0	4599.8	4687.5	4811.0	4910.7	4926.6	4862.8	4846.9	4838.9
12.5°	4412.4	4472.2	4532.0	4639.6	4727.3	4759.2	4723.3	4727.3	4723.3
15°	4284.9	4344.7	4384.5	4464.2	4524.0	4567.9	4551.9	4575.9	4555.9
17.5°	4093.6	4165.3	4181.2	4241.0	4284.9	4312.8	4328.7	4352.6	4320.8
20°	3834.5	3890.3	3910.2	3934.1	3954.0	3989.9	4037.8	4061.7	4025.8
22.5°	3471.7	3579.4	3575.4	3563.4	3583.4	3595.3	3671.0	3710.9	3683.0
25°	3065.2	3176.8	3164.8	3117.0	3121.0	3144.9	3240.6	3292.4	3272.5
27.5°	2638.7	2742.3	2714.4	2622.7	2598.8	2634.7	2758.3	2818.1	2806.1
30°	2228.1	2295.9	2252.1	2088.6	2060.7	2104.6	2264.0	2323.8	2291.9
32.5°	1785.7	1837.5	1817.6	1618.3	1570.5	1614.3	1801.6	1857.4	1821.6
35°	1427.0	1474.8	1446.9	1211.7	1167.9	1215.7	1411.0	1474.8	1442.9
37.5°	1144.0	1179.8	1144.0	892.8	853.0	900.8	1088.2	1171.9	1132.0
40°	908.8	936.7	888.9	657.7	625.8	649.7	825.1	908.8	880.9
42.5°	717.5	737.4	685.6	482.3	446.4	478.3	621.8	697.5	681.6
45°	581.9	581.9	518.2	334.8	291.0	322.9	466.4	546.1	550.1
47.5°	498.2	486.3	406.6	223.2	167.4	211.3	370.7	454.4	466.4
50°	430.5	414.5	334.8	163.4	107.6	151.5	306.9	390.6	402.6
52.5°	370.7	358.7	279.0	127.5	75.7	115.6	259.1	338.8	350.8
55°	310.9	302.9	231.2	99.6	59.8	87.7	207.3	275.0	283.0
57.5°	255.1	243.1	187.3	83.7	47.8	71.7	171.4	227.2	235.2
60°	215.2	203.3	151.5	67.8	39.9	55.8	139.5	187.3	195.3
62.5°	179.4	167.4	123.6	55.8	31.9	47.8	111.6	151.5	159.4
65°	143.5	135.5	95.7	43.8	27.9	35.9	87.7	119.6	127.5
67.5°	115.6	107.6	75.7	35.9	23.9	27.9	67.8	95.7	103.6
70°	87.7	79.7	55.8	27.9	19.9	23.9	51.8	71.7	79.7
72.5°	63.8	59.8	43.8	23.9	15.9	19.9	35.9	51.8	59.8
75°	47.8	43.8	31.9	15.9	12.0	15.9	27.9	39.9	43.8
77.5°	31.9	31.9	23.9	12.0	12.0	12.0	19.9	27.9	27.9
80°	23.9	19.9	15.9	8.0	8.0	8.0	12.0	19.9	19.9
82.5°	15.9	12.0	12.0	8.0	8.0	8.0	8.0	12.0	12.0
85°	8.0	8.0	8.0	4.0	4.0	4.0	4.0	8.0	8.0
87.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
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)