

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: P859101

Luminaire Tested: **LD4C55D010 EU4559035 4LBMDSWLI**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859101
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 EU4559035 4LBMDSWLI
Description: 4 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBMDSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

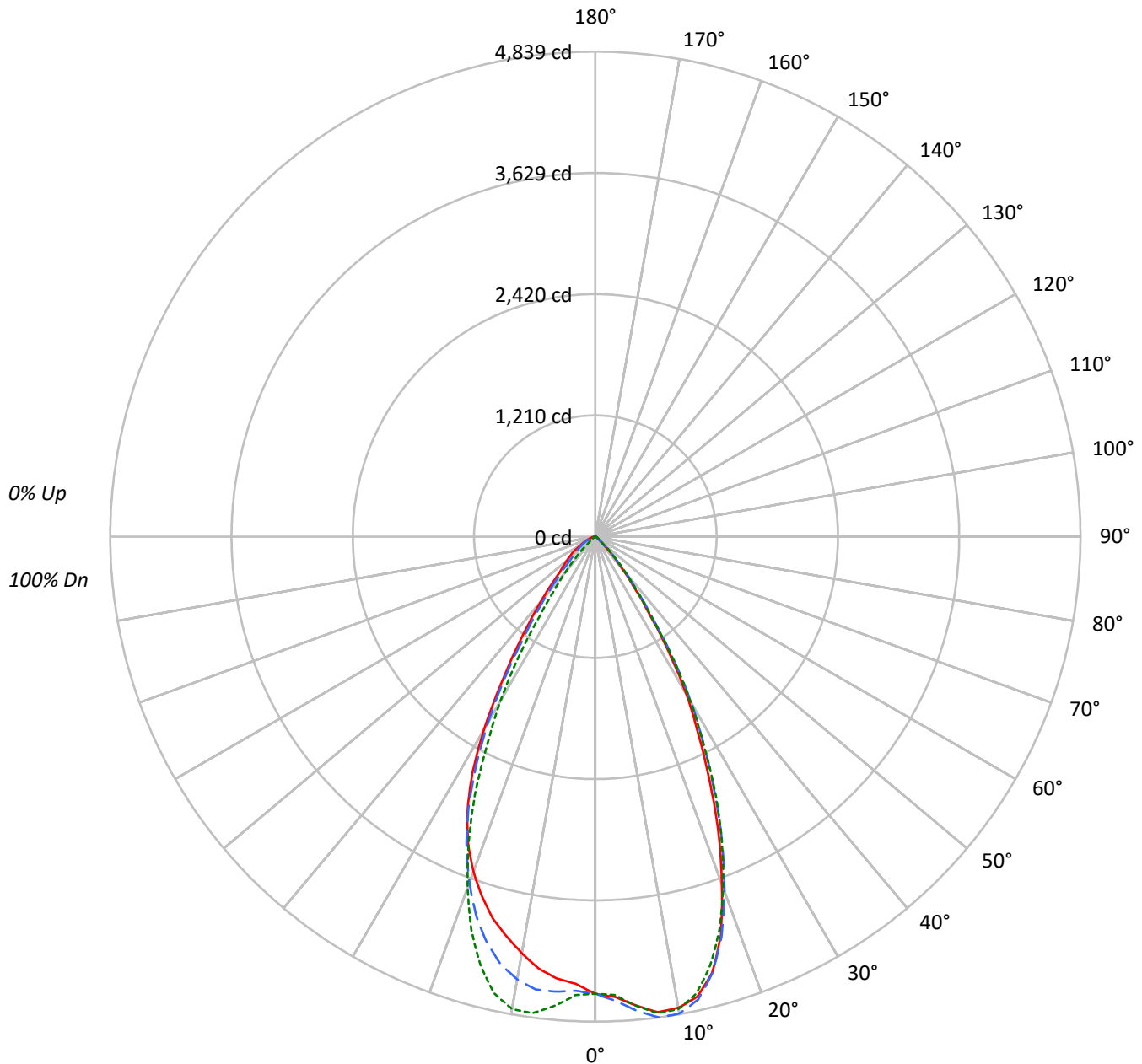
Lumens per Lamp: N/A
Luminaire Lumens: 4055.0 lumens
Efficiency: N/A
Efficacy: 63.5 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	560335	560335	560335
5°	579407	579790	545531
10°	595450	597010	526527
15°	572953	563020	501881
20°	482423	486907	464865
25°	366470	385081	409210
30°	257744	268369	314870
35°	139058	145612	208347
40°	67084	74093	135179
45°	23872	32542	87861
50°	8945	11334	70411
55°	6683	8032	58174
60°	5381	6143	42188
65°	4535	5436	32674
70°	3376	4490	25791
75°	2943	4462	19272
80°	2193	4386	13230
85°	0	4370	8739



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	444.1	11.0
10°-20°	1198.0	29.5
20°-30°	1299.5	32.0
30°-40°	721.0	17.8
40°-50°	229.7	5.7
50°-60°	92.6	2.3
60°-70°	46.8	1.2
70°-80°	19.3	0.5
80°-90°	4.0	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°	2941.6	72.5
0°-40°	3662.6	90.3
0°-60°	3984.8	98.3
0°-90°	4055.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4055.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4561	4561	4561	4561	4561	
5°	4698	4748	4701	4558	4424	452
15°	4505	4508	4427	4190	3946	1232
25°	2704	2816	2841	2994	3019	1235
35°	927	1002	971	1283	1389	615
45°	137	162	187	418	506	132
55°	31	31	38	200	272	29
65°	16	16	19	90	112	15
75°	6	6	9	31	41	7
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°	4561.0	4561.0	4561.0	4561.0	4561.0	4561.0	4561.0	4561.0	4561.0
2.5°	4598.4	4639.0	4635.9	4604.7	4579.7	4570.3	4536.0	4495.4	4467.3
5°	4698.3	4748.3	4748.3	4723.3	4701.4	4648.4	4557.8	4470.4	4423.6
7.5°	4785.7	4835.7	4838.8	4820.1	4795.1	4707.7	4557.8	4417.4	4345.6
10°	4773.2	4810.7	4832.6	4813.8	4785.7	4670.2	4486.0	4298.7	4220.7
12.5°	4701.4	4735.8	4732.7	4704.6	4667.1	4548.5	4367.4	4173.9	4086.4
15°	4504.8	4523.5	4507.9	4476.7	4426.7	4336.2	4189.5	4024.0	3946.0
17.5°	4164.5	4189.5	4183.2	4133.3	4114.5	4027.1	3958.5	3830.5	3761.8
20°	3690.0	3768.0	3768.0	3730.6	3724.3	3665.0	3674.4	3605.7	3555.7
22.5°	3212.3	3281.0	3302.9	3287.3	3299.8	3271.7	3359.1	3340.3	3315.4
25°	2703.5	2772.2	2815.9	2809.6	2840.8	2840.8	2993.8	3031.3	3018.8
27.5°	2225.8	2291.4	2341.4	2353.8	2335.1	2369.5	2578.6	2653.5	2653.5
30°	1816.9	1870.0	1916.8	1916.8	1891.8	1916.8	2138.4	2225.8	2219.6
32.5°	1354.9	1414.2	1457.9	1451.6	1429.8	1464.1	1698.3	1785.7	1763.8
35°	927.2	967.8	1002.1	989.6	970.9	1027.1	1283.1	1392.3	1389.2
37.5°	627.5	664.9	686.8	677.4	671.2	736.7	970.9	1092.6	1086.4
40°	418.3	443.3	458.9	455.8	462.0	518.2	730.5	842.9	842.9
42.5°	265.4	281.0	296.6	296.6	312.2	371.5	555.7	652.5	652.5
45°	137.4	146.7	162.3	171.7	187.3	249.7	418.3	499.5	505.7
47.5°	65.6	68.7	74.9	78.0	90.5	156.1	321.5	409.0	427.7
50°	46.8	49.9	49.9	49.9	59.3	118.6	271.6	352.8	368.4
52.5°	37.5	37.5	37.5	40.6	46.8	99.9	234.1	305.9	318.4
55°	31.2	31.2	31.2	31.2	37.5	81.2	199.8	262.2	271.6
57.5°	25.0	25.0	25.0	25.0	31.2	65.6	165.5	209.2	212.3
60°	21.9	21.9	21.9	21.9	25.0	56.2	134.2	171.7	171.7
62.5°	18.7	18.7	18.7	18.7	21.9	46.8	112.4	140.5	137.4
65°	15.6	15.6	15.6	15.6	18.7	37.5	90.5	112.4	112.4
67.5°	12.5	12.5	12.5	12.5	15.6	31.2	71.8	90.5	90.5
70°	9.4	9.4	9.4	9.4	12.5	25.0	59.3	71.8	71.8
72.5°	9.4	9.4	9.4	9.4	9.4	18.7	43.7	56.2	53.1
75°	6.2	6.2	6.2	6.2	9.4	15.6	31.2	40.6	40.6
77.5°	6.2	6.2	6.2	6.2	6.2	12.5	25.0	28.1	28.1
80°	3.1	3.1	3.1	3.1	6.2	9.4	15.6	18.7	18.7
82.5°	0.0	3.1	0.0	3.1	3.1	6.2	12.5	12.5	12.5
85°	0.0	0.0	0.0	0.0	3.1	3.1	6.2	9.4	6.2
87.5°	0.0	0.0	0.0	0.0	0.0	3.1	3.1	3.1	3.1
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)