

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: P563805

Luminaire Tested: **LD4C25D010 EX4C259030 4LBCSSQMW**

Issue Date: 5/25/2022



Test Information

Test Method: LM-79-08
Report Number: P563805
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P209253)
Test Lab: INNOVATION CENTER
Issue Date: 5/25/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C25D010 EX4C259030 4LBCSSQMW
Description: 4 INCH 2500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBCSSQ TRIM WITH MW FINISH, DIM TO WARM
Light Source: -
Ballast/Driver: -

Summary

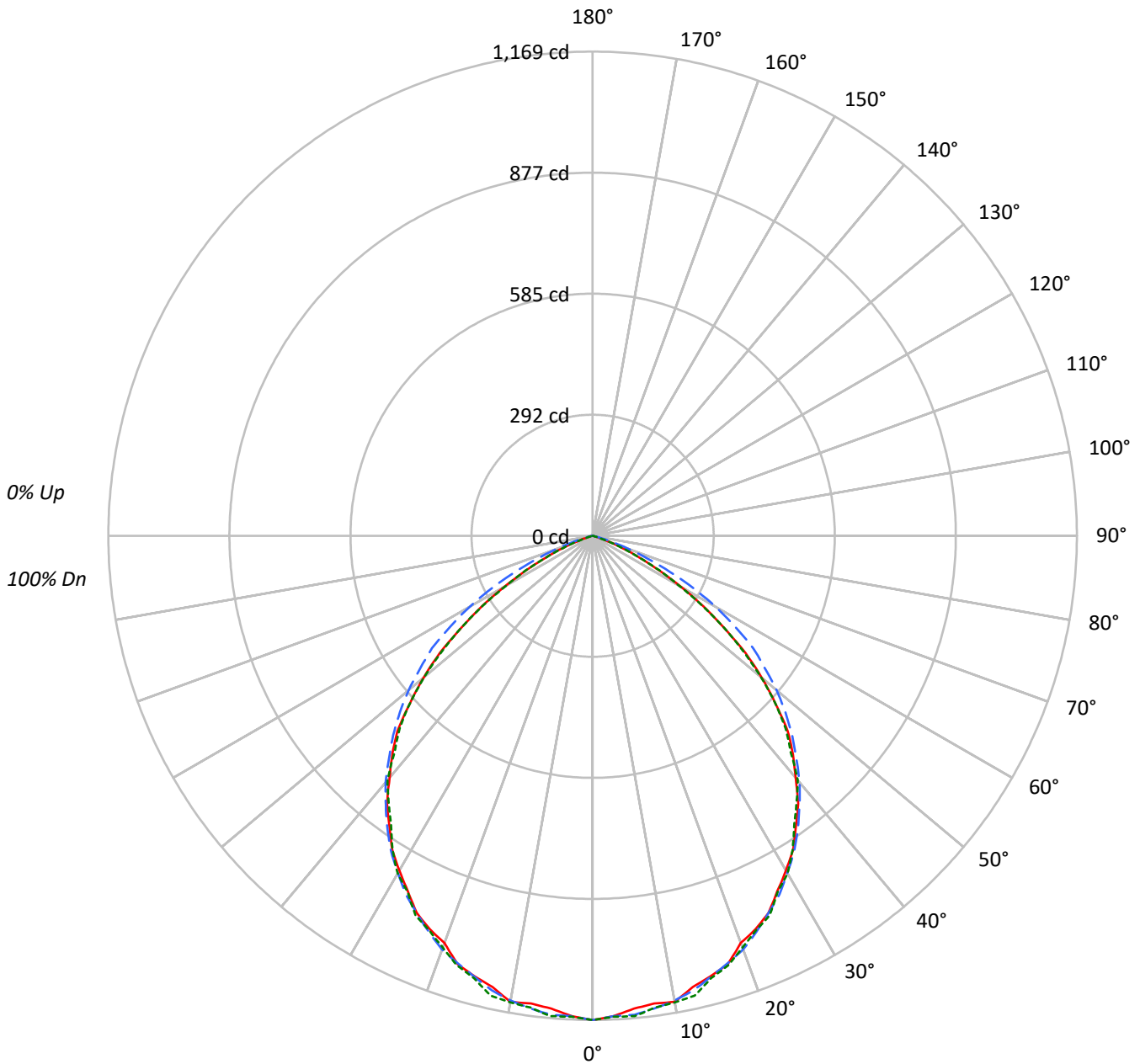
Lumens per Lamp: N/A
Luminaire Lumens: 2497.2 lumens
Efficiency: N/A
Efficacy: 79.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.2 / 1.29
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 31.5
Input Voltage (V):
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				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
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89				89
2	103	96	91	86	100	94	89	85	91	87	83	88	84	81	85	82	79	77				77
3	95	86	79	74	93	85	78	73	82	76	72	79	74	71	77	73	69	67				67
4	88	77	70	64	86	76	69	63	74	67	63	71	66	62	69	65	61	59				59
5	81	70	62	56	79	69	61	56	67	60	55	65	59	54	63	58	54	52				52
6	75	63	55	49	73	62	55	49	61	54	49	59	53	48	57	52	48	46				46
7	70	58	50	44	68	57	49	44	55	49	44	54	48	43	53	47	43	41				41
8	65	53	45	40	64	52	45	39	51	44	39	50	44	39	49	43	39	37				37
9	61	49	41	36	60	48	41	36	47	40	36	46	40	35	45	39	35	33				33
10	57	45	38	33	56	44	37	33	44	37	32	43	37	32	42	36	32	31				31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	112805	112805	112805
5°	110979	112422	112742
10°	111939	111616	112096
15°	109972	110132	110471
20°	107415	109130	108616
25°	106953	106953	107656
30°	103973	104709	104898
35°	100735	101713	99946
40°	96005	97881	97038
45°	90866	92899	89952
50°	80009	86989	79528
55°	64800	79603	65086
60°	47434	66018	46469
65°	28813	47009	28060
70°	11256	25306	10777
75°	1268	6822	1268
80°	945	945	945
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.3	4.4
10°-20°	312.2	12.5
20°-30°	463.3	18.6
30°-40°	536.8	21.5
40°-50°	514.7	20.6
50°-60°	378.4	15.2
60°-70°	163.5	6.5
70°-80°	17.7	0.7
80°-90°	0.2	0.0
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°	885.9	35.5
0°-40°	1422.7	57.0
0°-60°	2315.9	92.7
0°-90°	2497.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2497.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1169	1169	1169	1169	1169	
5°	1146	1157	1161	1162	1164	109
15°	1101	1108	1102	1104	1106	310
25°	1005	1003	1005	1006	1011	460
35°	855	860	864	862	848	535
45°	666	668	681	671	659	506
55°	385	425	473	424	387	347
65°	126	158	206	156	123	130
75°	3	5	18	3	3	10
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1169.1	1169.1	1169.1	1169.1	1169.1	1169.1	1169.1	1169.1	1169.1	1169.1	1169.1
2.5°	1160.7	1174.0	1175.7	1167.3	1164.0	1159.1	1170.7	1162.4	1165.7	1162.4	1160.7
5°	1145.8	1160.7	1162.4	1162.4	1159.1	1157.4	1162.4	1160.7	1159.1	1155.7	1160.7
7.5°	1139.2	1147.4	1155.7	1145.8	1150.8	1149.1	1160.7	1155.7	1154.0	1154.0	1150.8
10°	1142.5	1140.8	1147.4	1137.4	1140.8	1137.4	1147.4	1147.4	1144.1	1140.8	1139.2
12.5°	1115.9	1129.1	1129.1	1127.5	1124.2	1119.1	1129.1	1135.8	1125.8	1125.8	1124.2
15°	1100.9	1104.3	1105.9	1105.9	1104.3	1107.6	1112.5	1105.9	1107.6	1099.3	1102.5
17.5°	1084.3	1077.7	1082.6	1079.4	1081.0	1084.3	1090.9	1090.9	1081.0	1079.4	1082.6
20°	1046.1	1066.0	1067.8	1057.8	1059.4	1059.4	1071.1	1061.1	1067.8	1059.4	1062.8
22.5°	1027.9	1041.1	1042.8	1029.5	1037.8	1027.9	1039.5	1024.5	1041.1	1029.5	1034.5
25°	1004.6	1003.0	1007.9	1001.2	1003.0	1003.0	1011.2	1004.6	1009.6	1003.0	1004.6
27.5°	966.4	979.8	978.0	971.4	974.7	973.1	989.7	971.4	981.4	973.1	976.4
30°	933.2	944.9	941.5	934.9	934.9	929.8	948.1	943.1	941.5	941.5	939.8
32.5°	900.0	901.6	898.4	900.0	901.6	895.0	910.0	903.3	901.6	903.3	905.0
35°	855.2	855.2	858.4	853.5	860.1	860.1	873.5	865.1	863.5	858.4	863.5
37.5°	815.3	810.4	812.0	812.0	815.3	818.6	825.3	821.9	821.9	817.0	820.3
40°	762.2	758.8	763.8	763.8	768.8	768.8	775.5	772.2	777.1	777.1	777.1
42.5°	715.7	715.7	712.3	717.3	719.1	717.3	729.0	727.3	729.0	725.7	727.3
45°	665.9	665.9	662.5	660.9	669.2	667.6	680.8	675.8	682.4	679.1	680.8
47.5°	597.8	606.0	601.1	606.0	616.0	617.7	626.0	622.7	629.3	624.4	631.1
50°	533.0	533.0	538.0	544.6	554.6	556.3	566.3	572.9	576.2	577.9	579.5
52.5°	465.0	463.2	468.3	476.6	484.9	491.5	501.5	511.4	518.1	528.0	523.0
55°	385.2	388.6	393.6	403.5	416.8	425.1	433.4	446.7	458.4	463.2	473.2
57.5°	317.2	313.8	317.2	330.4	345.4	352.1	363.6	377.0	393.6	403.5	406.9
60°	245.8	247.4	250.7	262.4	273.9	283.9	289.0	310.4	325.5	335.5	342.1
62.5°	181.1	184.3	187.7	197.6	209.2	217.6	225.8	244.1	257.4	267.3	273.9
65°	126.2	127.9	132.8	137.8	149.4	157.8	164.4	179.3	192.7	200.9	205.9
67.5°	78.0	79.6	83.0	89.7	98.0	104.6	111.3	121.3	132.8	141.1	142.8
70°	39.9	41.5	43.1	48.2	54.8	58.1	63.1	71.4	79.6	86.4	89.7
72.5°	13.3	13.3	15.0	18.3	21.6	24.9	26.5	34.9	41.5	44.9	46.5
75°	3.4	3.4	3.4	3.4	3.4	5.0	5.0	10.0	13.3	16.6	18.3
77.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	3.4	3.4
80°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1169.1	1169.1	1169.1	1169.1	1169.1	1169.1	1169.1	1169.1	1169.1	1169.1
2.5°	1169.1	1165.7	1164.0	1165.7	1165.7	1164.0	1169.1	1175.7	1183.9	1162.4
5°	1167.3	1164.0	1167.3	1157.4	1162.4	1159.1	1165.7	1164.0	1170.7	1164.0
7.5°	1162.4	1155.7	1157.4	1152.4	1159.1	1150.8	1155.7	1165.7	1159.1	1149.1
10°	1145.8	1142.5	1154.0	1137.4	1134.2	1140.8	1154.0	1144.1	1140.8	1144.1
12.5°	1129.1	1129.1	1134.2	1120.9	1122.5	1125.8	1132.4	1125.8	1129.1	1137.4
15°	1110.9	1107.6	1115.9	1105.9	1104.3	1100.9	1107.6	1107.6	1110.9	1105.9
17.5°	1089.3	1084.3	1084.3	1081.0	1079.4	1087.7	1090.9	1092.6	1094.3	1087.7
20°	1062.8	1061.1	1066.0	1061.1	1062.8	1064.4	1064.4	1061.1	1076.0	1057.8
22.5°	1034.5	1039.5	1032.9	1029.5	1032.9	1036.2	1036.2	1037.8	1034.5	1031.1
25°	1006.3	1009.6	1011.2	1001.2	1006.3	1001.2	1012.9	1014.6	1007.9	1011.2
27.5°	981.4	976.4	974.7	968.1	971.4	969.8	971.4	971.4	981.4	968.1
30°	943.1	938.2	939.8	934.9	936.5	934.9	936.5	936.5	943.1	941.5
32.5°	906.6	901.6	903.3	898.4	898.4	900.0	896.7	896.7	901.6	898.4
35°	871.7	860.1	861.8	860.1	861.8	855.2	855.2	853.5	856.8	848.5
37.5°	821.9	817.0	815.3	813.7	815.3	812.0	815.3	810.4	815.3	808.7
40°	777.1	773.8	775.5	765.5	765.5	767.2	763.8	762.2	763.8	770.4
42.5°	732.3	725.7	722.3	719.1	720.7	715.7	714.0	710.7	714.0	707.4
45°	679.1	679.1	677.5	669.2	670.8	670.8	664.2	657.6	659.2	659.2
47.5°	631.1	627.7	626.0	617.7	616.0	614.4	607.7	602.8	602.8	597.8
50°	577.9	574.5	569.5	561.3	557.9	548.0	543.0	536.4	529.8	529.8
52.5°	528.0	516.4	509.7	496.5	491.5	486.5	473.2	468.3	463.2	458.4
55°	468.3	458.4	445.0	430.1	423.5	415.1	401.8	391.8	385.2	386.9
57.5°	410.1	393.6	380.3	360.4	352.1	347.0	333.7	320.4	313.8	313.8
60°	338.7	325.5	308.8	290.6	283.9	275.7	259.0	250.7	245.8	240.8
62.5°	270.7	260.7	245.8	222.5	217.6	209.2	197.6	187.7	182.7	182.7
65°	202.5	192.7	179.3	162.8	156.1	149.4	139.5	129.5	124.5	122.9
67.5°	142.8	131.1	119.6	106.3	101.3	98.0	88.0	81.4	78.0	76.4
70°	86.4	79.6	71.4	61.4	56.5	53.1	46.5	41.5	39.9	38.2
72.5°	44.9	39.9	33.2	26.5	23.2	19.9	16.6	13.3	11.7	11.7
75°	16.6	13.3	8.3	5.0	3.4	3.4	3.4	3.4	3.4	3.4
77.5°	3.4	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
80°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	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)