

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: P563814

Luminaire Tested: **LD4C30D010 EX4C309030 4LBCSSQMW**

Issue Date: 5/25/2022



Test Information

Test Method: LM-79-08
Report Number: P563814
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: LD4C30D010 EX4C309030 4LBCSSQMW
Description: 4 INCH 3000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBCSSQ TRIM WITH MW FINISH, DIM TO WARM
Light Source: -
Ballast/Driver: -

Summary

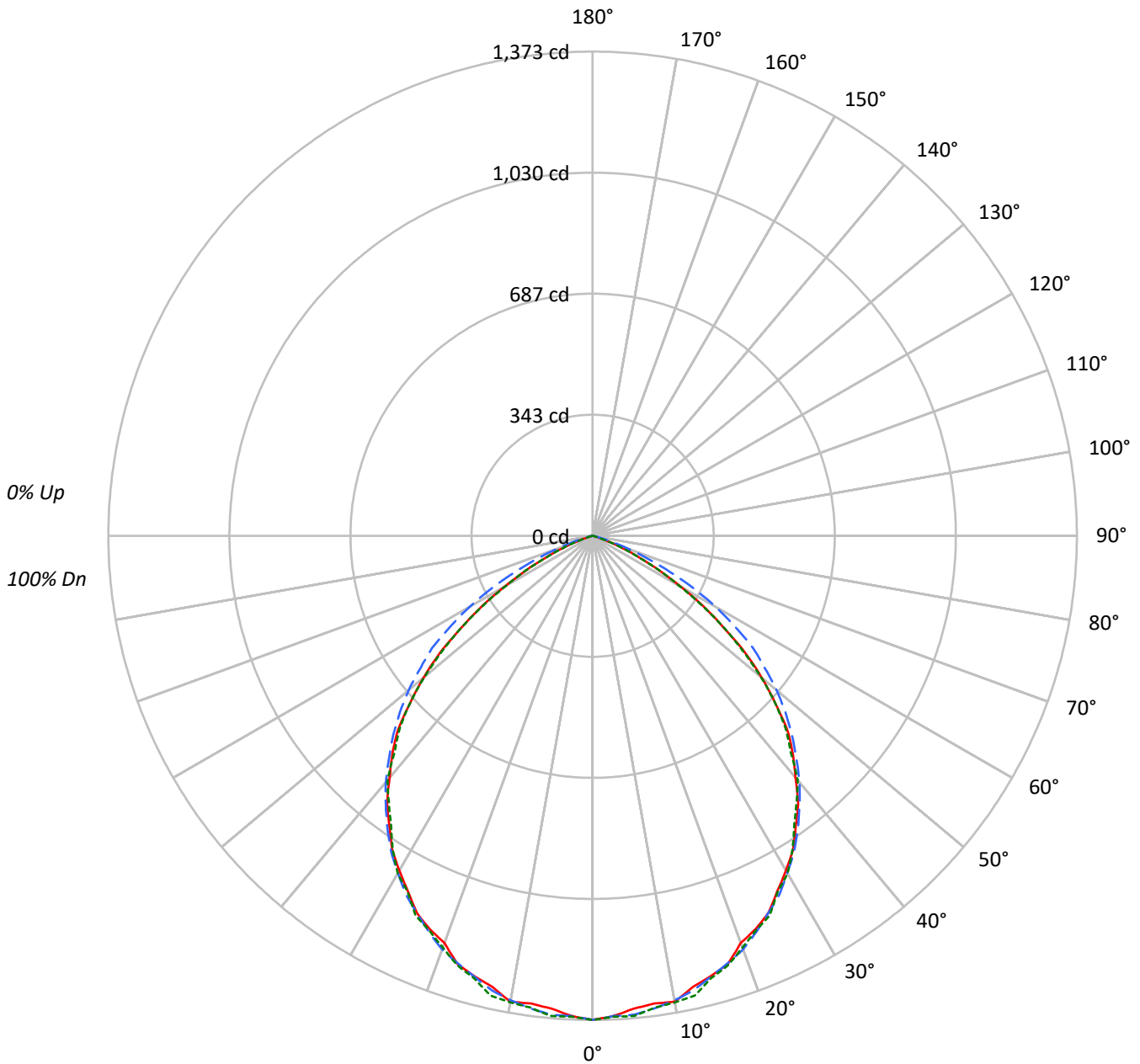
Lumens per Lamp: N/A
Luminaire Lumens: 2932.6 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.2 / 1.29
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 31.6
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					
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								
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89								
2	103	96	91	86	100	94	89	85	91	87	83	88	84	81	85	82	79	77								
3	95	86	79	74	93	85	78	73	82	76	72	79	74	71	77	73	69	67								
4	88	77	70	64	86	76	69	63	74	67	63	71	66	62	69	65	61	59								
5	81	70	62	56	79	69	61	56	67	60	55	65	59	54	63	58	54	52								
6	75	63	55	49	73	62	55	49	61	54	49	59	53	48	57	52	48	46								
7	70	58	50	44	68	57	49	44	55	49	44	54	48	43	53	47	43	41								
8	65	53	45	40	64	52	45	39	51	44	39	50	44	39	49	43	39	37								
9	61	49	41	36	60	48	41	36	47	40	36	46	40	35	45	39	35	33								
10	57	45	38	33	56	44	37	33	44	37	32	43	37	32	42	36	32	31								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	132460	132460	132460
5°	130331	132017	132394
10°	131456	131064	131633
15°	129151	129341	129731
20°	126144	128146	127551
25°	125595	125595	126436
30°	122101	122970	123192
35°	118286	119440	117367
40°	112732	114936	113966
45°	106695	109096	105631
50°	93969	102165	93383
55°	76087	93482	76441
60°	55693	77519	54574
65°	33836	55206	32945
70°	13203	29735	12667
75°	1454	8015	1454
80°	1111	1111	1111
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.6	4.4
10°-20°	366.7	12.5
20°-30°	544.1	18.6
30°-40°	630.4	21.5
40°-50°	604.4	20.6
50°-60°	444.4	15.2
60°-70°	191.9	6.5
70°-80°	20.7	0.7
80°-90°	0.3	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°	1040.4	35.5
0°-40°	1670.8	57.0
0°-60°	2719.6	92.7
0°-90°	2932.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2932.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1373	1373	1373	1373	1373	
5°	1346	1359	1363	1365	1367	128
15°	1293	1301	1295	1297	1299	364
25°	1180	1178	1180	1182	1188	540
35°	1004	1010	1014	1012	996	628
45°	782	784	800	788	774	594
55°	452	499	556	497	454	407
65°	148	185	242	183	144	152
75°	4	6	22	4	4	12
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°	1372.8	1372.8	1372.8	1372.8	1372.8	1372.8	1372.8	1372.8	1372.8	1372.8	1372.8
2.5°	1363.0	1378.6	1380.6	1370.9	1366.9	1361.1	1374.7	1365.1	1368.9	1365.1	1363.0
5°	1345.6	1363.0	1365.1	1365.1	1361.1	1359.2	1365.1	1363.0	1361.1	1357.2	1363.0
7.5°	1337.7	1347.5	1357.2	1345.6	1351.4	1349.4	1363.0	1357.2	1355.2	1355.2	1351.4
10°	1341.7	1339.7	1347.5	1335.8	1339.7	1335.8	1347.5	1347.5	1343.5	1339.7	1337.7
12.5°	1310.4	1326.0	1326.0	1324.1	1320.1	1314.3	1326.0	1333.9	1322.1	1322.1	1320.1
15°	1292.9	1296.7	1298.7	1298.7	1296.7	1300.7	1306.5	1298.7	1300.7	1290.9	1294.8
17.5°	1273.4	1265.6	1271.4	1267.5	1269.5	1273.4	1281.2	1281.2	1269.5	1267.5	1271.4
20°	1228.5	1251.9	1253.9	1242.2	1244.1	1244.1	1257.8	1246.1	1253.9	1244.1	1248.0
22.5°	1207.0	1222.7	1224.6	1209.0	1218.7	1207.0	1220.7	1203.1	1222.7	1209.0	1214.8
25°	1179.7	1177.8	1183.6	1175.9	1177.8	1177.8	1187.6	1179.7	1185.6	1177.8	1179.7
27.5°	1135.0	1150.6	1148.5	1140.8	1144.7	1142.7	1162.3	1140.8	1152.5	1142.7	1146.7
30°	1095.9	1109.6	1105.7	1097.9	1097.9	1092.0	1113.4	1107.6	1105.7	1105.7	1103.7
32.5°	1056.9	1058.9	1054.9	1056.9	1058.9	1051.1	1068.6	1060.8	1058.9	1060.8	1062.8
35°	1004.2	1004.2	1008.1	1002.3	1010.1	1010.1	1025.7	1015.9	1014.0	1008.1	1014.0
37.5°	957.5	951.6	953.5	953.5	957.5	961.4	969.2	965.2	965.2	959.4	963.3
40°	895.0	891.2	897.0	897.0	902.9	902.9	910.7	906.7	912.5	912.5	912.5
42.5°	840.5	840.5	836.5	842.4	844.4	842.4	856.1	854.1	856.1	852.2	854.1
45°	781.9	781.9	778.1	776.1	785.8	784.0	799.5	793.6	801.5	797.5	799.5
47.5°	702.0	711.7	705.8	711.7	723.4	725.5	735.1	731.3	739.1	733.2	741.0
50°	626.0	626.0	631.8	639.6	651.3	653.2	664.9	672.8	676.6	678.6	680.6
52.5°	546.0	544.0	549.9	559.7	569.4	577.3	589.0	600.7	608.4	620.1	614.2
55°	452.3	456.3	462.2	473.9	489.5	499.1	508.9	524.6	538.2	544.0	555.7
57.5°	372.4	368.5	372.4	388.1	405.6	413.4	427.1	442.7	462.2	473.9	477.8
60°	288.6	290.5	294.5	308.1	321.7	333.4	339.3	364.7	382.3	393.9	401.7
62.5°	212.6	216.5	220.4	232.1	245.7	255.5	265.2	286.6	302.2	313.9	321.7
65°	148.2	150.1	156.0	161.8	175.5	185.2	193.1	210.6	226.2	236.0	241.8
67.5°	91.6	93.6	97.4	105.4	115.0	122.9	130.6	142.3	156.0	165.7	167.7
70°	46.8	48.7	50.7	56.6	64.4	68.3	74.1	83.8	93.6	101.3	105.4
72.5°	15.6	15.6	17.6	21.5	25.3	29.3	31.2	41.0	48.7	52.7	54.6
75°	3.9	3.9	3.9	3.9	3.9	5.9	5.9	11.7	15.6	19.5	21.5
77.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	3.9	3.9
80°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
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°	1372.8	1372.8	1372.8	1372.8	1372.8	1372.8	1372.8	1372.8	1372.8	1372.8
2.5°	1372.8	1368.9	1366.9	1368.9	1368.9	1366.9	1372.8	1380.6	1390.3	1365.1
5°	1370.9	1366.9	1370.9	1359.2	1365.1	1361.1	1368.9	1366.9	1374.7	1366.9
7.5°	1365.1	1357.2	1359.2	1353.4	1361.1	1351.4	1357.2	1368.9	1361.1	1349.4
10°	1345.6	1341.7	1355.2	1335.8	1331.8	1339.7	1355.2	1343.5	1339.7	1343.5
12.5°	1326.0	1326.0	1331.8	1316.3	1318.2	1322.1	1329.9	1322.1	1326.0	1335.8
15°	1304.6	1300.7	1310.4	1298.7	1296.7	1292.9	1300.7	1300.7	1304.6	1298.7
17.5°	1279.2	1273.4	1273.4	1269.5	1267.5	1277.3	1281.2	1283.1	1285.0	1277.3
20°	1248.0	1246.1	1251.9	1246.1	1248.0	1250.0	1250.0	1246.1	1263.6	1242.2
22.5°	1214.8	1220.7	1212.9	1209.0	1212.9	1216.8	1216.8	1218.7	1214.8	1211.0
25°	1181.7	1185.6	1187.6	1175.9	1181.7	1175.9	1189.5	1191.4	1183.6	1187.6
27.5°	1152.5	1146.7	1144.7	1136.8	1140.8	1138.9	1140.8	1140.8	1152.5	1136.8
30°	1107.6	1101.7	1103.7	1097.9	1099.8	1097.9	1099.8	1099.8	1107.6	1105.7
32.5°	1064.7	1058.9	1060.8	1054.9	1054.9	1056.9	1053.0	1053.0	1058.9	1054.9
35°	1023.7	1010.1	1012.0	1010.1	1012.0	1004.2	1004.2	1002.3	1006.2	996.4
37.5°	965.2	959.4	957.5	955.6	957.5	953.5	957.5	951.6	957.5	949.7
40°	912.5	908.7	910.7	899.0	899.0	900.8	897.0	895.0	897.0	904.8
42.5°	859.9	852.2	848.2	844.4	846.3	840.5	838.5	834.6	838.5	830.7
45°	797.5	797.5	795.7	785.8	787.8	787.8	780.0	772.3	774.1	774.1
47.5°	741.0	737.2	735.1	725.5	723.4	721.5	713.7	707.9	707.9	702.0
50°	678.6	674.7	668.9	659.0	655.2	643.5	637.7	629.9	622.1	622.1
52.5°	620.1	606.5	598.6	583.1	577.3	571.4	555.7	549.9	544.0	538.2
55°	549.9	538.2	522.6	505.0	497.3	487.4	471.9	460.2	452.3	454.4
57.5°	481.6	462.2	446.6	423.2	413.4	407.5	391.9	376.4	368.5	368.5
60°	397.8	382.3	362.7	341.3	333.4	323.8	304.1	294.5	288.6	282.8
62.5°	317.9	306.2	288.6	261.3	255.5	245.7	232.1	220.4	214.5	214.5
65°	237.9	226.2	210.6	191.1	183.3	175.5	163.8	152.1	146.3	144.3
67.5°	167.7	154.0	140.5	124.8	118.9	115.0	103.3	95.5	91.6	89.7
70°	101.3	93.6	83.8	72.1	66.3	62.4	54.6	48.7	46.8	44.9
72.5°	52.7	46.8	39.0	31.2	27.3	23.4	19.5	15.6	13.7	13.7
75°	19.5	15.6	9.8	5.9	3.9	3.9	3.9	3.9	3.9	3.9
77.5°	3.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
80°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
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)