

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: P563813

Luminaire Tested: **LD4C30D010 EX4C309030 4LBCSSQMMS**

Issue Date: 5/25/2022

Test Information

Test Method: LM-79-08
Report Number: P563813
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 4LBCSSQMMS
Description: 4 INCH 3000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBCSSQ TRIM WITH MMS FINISH, DIM TO WARM
Light Source: -
Ballast/Driver: -

Summary

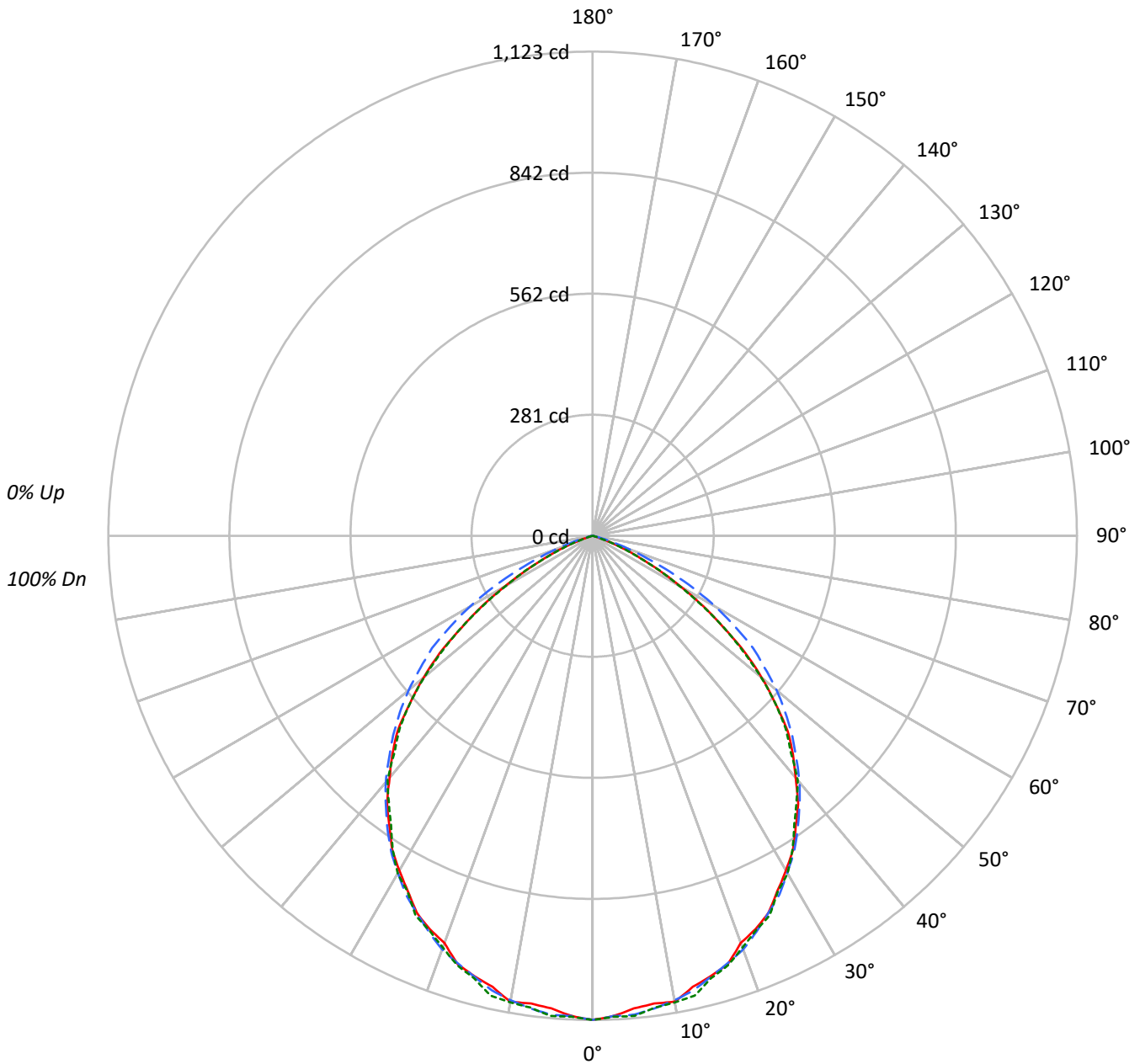
Lumens per Lamp: N/A
Luminaire Lumens: 2398.5 lumens
Efficiency: N/A
Efficacy: 75.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.2 / 1.29
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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			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°	108347	108347	108347
5°	106592	107986	108287
10°	107520	107197	107667
15°	105636	105786	106106
20°	103174	104817	104324
25°	102727	102727	103408
30°	99873	100575	100753
35°	96754	97684	96000
40°	92213	94015	93208
45°	87264	89242	86404
50°	76856	83551	76376
55°	62259	76474	62512
60°	45543	63413	44636
65°	27694	45137	26941
70°	10777	24318	10354
75°	1193	6561	1193
80°	889	889	889
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.0	4.4
10°-20°	299.9	12.5
20°-30°	445.0	18.6
30°-40°	515.6	21.5
40°-50°	494.4	20.6
50°-60°	363.5	15.2
60°-70°	157.0	6.5
70°-80°	16.9	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°	850.9	35.5
0°-40°	1366.5	57.0
0°-60°	2224.4	92.7
0°-90°	2398.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2398.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1123	1123	1123	1123	1123	
5°	1100	1112	1115	1116	1118	105
15°	1058	1064	1059	1061	1062	298
25°	965	963	965	966	971	442
35°	821	826	829	828	815	514
45°	640	641	654	644	633	486
55°	370	408	455	407	372	333
65°	121	152	198	150	118	125
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°	1122.9	1122.9	1122.9	1122.9	1122.9	1122.9	1122.9	1122.9	1122.9	1122.9	1122.9
2.5°	1114.9	1127.6	1129.2	1121.3	1118.0	1113.2	1124.4	1116.5	1119.6	1116.5	1114.9
5°	1100.5	1114.9	1116.5	1116.5	1113.2	1111.7	1116.5	1114.9	1113.2	1110.1	1114.9
7.5°	1094.1	1102.0	1110.1	1100.5	1105.3	1103.7	1114.9	1110.1	1108.4	1108.4	1105.3
10°	1097.4	1095.7	1102.0	1092.5	1095.7	1092.5	1102.0	1102.0	1098.9	1095.7	1094.1
12.5°	1071.7	1084.5	1084.5	1082.9	1079.8	1075.0	1084.5	1090.9	1081.3	1081.3	1079.8
15°	1057.5	1060.6	1062.2	1062.2	1060.6	1063.8	1068.6	1062.2	1063.8	1055.9	1059.0
17.5°	1041.5	1035.1	1039.9	1036.7	1038.4	1041.5	1047.9	1047.9	1038.4	1036.7	1039.9
20°	1004.8	1023.9	1025.5	1016.0	1017.5	1017.5	1028.7	1019.1	1025.5	1017.5	1020.8
22.5°	987.2	1000.0	1001.6	988.8	996.8	987.2	998.4	984.0	1000.0	988.8	993.6
25°	964.9	963.4	968.1	961.8	963.4	963.4	971.3	964.9	969.7	963.4	964.9
27.5°	928.3	941.0	939.4	933.0	936.2	934.6	950.6	933.0	942.5	934.6	937.9
30°	896.4	907.5	904.3	898.0	898.0	893.1	910.7	905.9	904.3	904.3	902.7
32.5°	864.4	866.0	862.9	864.4	866.0	859.6	874.0	867.7	866.0	867.7	869.3
35°	821.4	821.4	824.5	819.8	826.2	826.2	838.9	831.0	829.3	824.5	829.3
37.5°	783.1	778.4	779.9	779.9	783.1	786.3	792.7	789.4	789.4	784.7	787.9
40°	732.1	728.9	733.6	733.6	738.5	738.5	744.8	741.6	746.4	746.4	746.4
42.5°	687.4	687.4	684.3	688.9	690.6	688.9	700.1	698.6	700.1	697.0	698.6
45°	639.5	639.5	636.4	634.8	642.8	641.1	654.0	649.1	655.5	652.3	654.0
47.5°	574.1	582.1	577.4	582.1	591.7	593.3	601.3	598.1	604.4	599.7	606.0
50°	512.0	512.0	516.7	523.1	532.7	534.3	543.9	550.3	553.5	555.0	556.6
52.5°	446.6	444.9	449.8	457.7	465.8	472.1	481.6	491.2	497.6	507.2	502.4
55°	370.1	373.2	378.0	387.6	400.4	408.3	416.2	429.1	440.2	444.9	454.6
57.5°	304.7	301.4	304.7	317.4	331.7	338.1	349.3	362.0	378.0	387.6	390.8
60°	236.0	237.6	240.9	252.1	263.1	272.7	277.5	298.2	312.6	322.1	328.6
62.5°	173.8	177.1	180.2	189.8	200.9	208.9	216.9	234.5	247.2	256.7	263.1
65°	121.3	122.8	127.7	132.3	143.5	151.5	157.9	172.2	185.0	193.0	197.7
67.5°	75.0	76.5	79.7	86.2	94.1	100.5	106.8	116.4	127.7	135.6	137.2
70°	38.2	39.9	41.5	46.3	52.7	55.8	60.6	68.6	76.5	82.9	86.2
72.5°	12.7	12.7	14.3	17.6	20.8	23.9	25.5	33.5	39.9	43.0	44.7
75°	3.2	3.2	3.2	3.2	3.2	4.8	4.8	9.6	12.7	16.0	17.6
77.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.2	3.2
80°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
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°	1122.9	1122.9	1122.9	1122.9	1122.9	1122.9	1122.9	1122.9	1122.9	1122.9
2.5°	1122.9	1119.6	1118.0	1119.6	1119.6	1118.0	1122.9	1129.2	1137.1	1116.5
5°	1121.3	1118.0	1121.3	1111.7	1116.5	1113.2	1119.6	1118.0	1124.4	1118.0
7.5°	1116.5	1110.1	1111.7	1106.9	1113.2	1105.3	1110.1	1119.6	1113.2	1103.7
10°	1100.5	1097.4	1108.4	1092.5	1089.3	1095.7	1108.4	1098.9	1095.7	1098.9
12.5°	1084.5	1084.5	1089.3	1076.6	1078.1	1081.3	1087.7	1081.3	1084.5	1092.5
15°	1067.0	1063.8	1071.7	1062.2	1060.6	1057.5	1063.8	1063.8	1067.0	1062.2
17.5°	1046.3	1041.5	1041.5	1038.4	1036.7	1044.7	1047.9	1049.4	1051.1	1044.7
20°	1020.8	1019.1	1023.9	1019.1	1020.8	1022.4	1022.4	1019.1	1033.5	1016.0
22.5°	993.6	998.4	992.1	988.8	992.1	995.2	995.2	996.8	993.6	990.4
25°	966.5	969.7	971.3	961.8	966.5	961.8	973.0	974.5	968.1	971.3
27.5°	942.5	937.9	936.2	929.8	933.0	931.5	933.0	933.0	942.5	929.8
30°	905.9	901.1	902.7	898.0	899.5	898.0	899.5	899.5	905.9	904.3
32.5°	870.8	866.0	867.7	862.9	862.9	864.4	861.3	861.3	866.0	862.9
35°	837.3	826.2	827.7	826.2	827.7	821.4	821.4	819.8	823.0	815.0
37.5°	789.4	784.7	783.1	781.5	783.1	779.9	783.1	778.4	783.1	776.7
40°	746.4	743.2	744.8	735.2	735.2	736.9	733.6	732.1	733.6	740.0
42.5°	703.4	697.0	693.8	690.6	692.2	687.4	685.8	682.6	685.8	679.4
45°	652.3	652.3	650.7	642.8	644.4	644.4	638.0	631.6	633.2	633.2
47.5°	606.0	602.9	601.3	593.3	591.7	590.2	583.7	579.0	579.0	574.1
50°	555.0	551.8	547.1	539.1	535.9	526.3	521.5	515.2	508.8	508.8
52.5°	507.2	496.0	489.6	476.9	472.1	467.3	454.6	449.8	444.9	440.2
55°	449.8	440.2	427.4	413.1	406.7	398.7	385.9	376.4	370.1	371.6
57.5°	394.0	378.0	365.3	346.2	338.1	333.3	320.5	307.8	301.4	301.4
60°	325.4	312.6	296.7	279.1	272.7	264.8	248.8	240.9	236.0	231.3
62.5°	260.0	250.4	236.0	213.7	208.9	200.9	189.8	180.2	175.5	175.5
65°	194.6	185.0	172.2	156.3	149.9	143.5	134.0	124.4	119.6	118.0
67.5°	137.2	126.0	114.8	102.1	97.2	94.1	84.5	78.1	75.0	73.3
70°	82.9	76.5	68.6	59.0	54.2	51.1	44.7	39.9	38.2	36.7
72.5°	43.0	38.2	31.8	25.5	22.3	19.1	16.0	12.7	11.2	11.2
75°	16.0	12.7	8.0	4.8	3.2	3.2	3.2	3.2	3.2	3.2
77.5°	3.2	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
80°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
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)