

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: P#

Luminaire Tested: **LD4C100D010 EX4C1009040 4LBSQLI**

Issue Date: 2/9/2022



Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P209151)
Test Lab: INNOVATION CENTER
Issue Date: 2/9/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C100D010 EX4C1009040 4LBSQLI
Description: 4 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBSQ TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

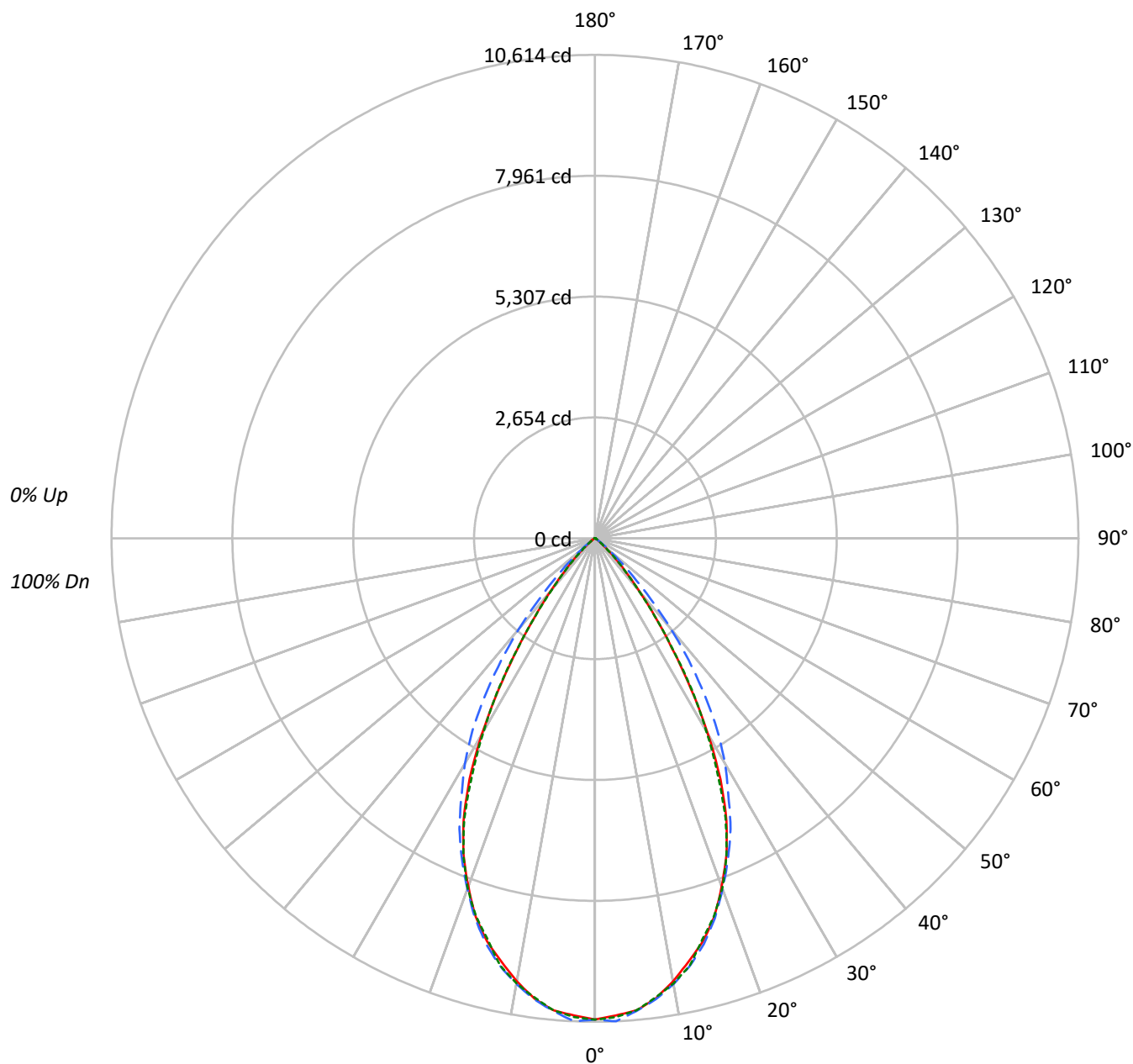
Lumens per Lamp: N/A
Luminaire Lumens: 9756.0 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.9 / 0.94
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 114.4
Input Voltage (V):
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	111	108	106	111	108	106	104	104	103	101		101	99	98		97
2	108	103	99	95	105	101	97	94	98	95	92		95	92	90		92
3	102	96	91	87	100	94	90	86	92	88	84		89	86	83		87
4	97	89	84	79	95	88	83	79	86	81	78		84	80	77		82
5	92	83	77	73	90	82	77	73	81	76	72		79	75	71		77
6	87	78	72	68	86	77	71	67	76	71	67		74	70	66		73
7	83	73	67	63	81	73	67	63	71	66	62		70	65	62		69
8	79	69	63	59	77	68	62	58	67	62	58		66	61	58		65
9	75	65	59	55	74	64	59	55	63	58	55		63	58	54		62
10	71	61	55	51	70	61	55	51	60	55	51		59	54	51		58

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1019627	1019627	1019627
5°	1007918	1009216	1007918
10°	967605	973533	972220
15°	914757	921460	910052
20°	834830	841022	838968
25°	726924	749792	721899
30°	552767	635794	544556
35°	347943	494264	351112
40°	187727	326418	184339
45°	88860	161236	87932
50°	33264	60449	33264
55°	15813	19211	14703
60°	10363	9089	10363
65°	6119	6119	6119
70°	3780	5727	3780
75°	2535	2535	2535
80°	3778	3778	3778
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	979.8	10.0
10°-20°	2567.7	26.3
20°-30°	3136.7	32.2
30°-40°	2193.9	22.5
40°-50°	719.0	7.4
50°-60°	114.3	1.2
60°-70°	31.2	0.3
70°-80°	10.4	0.1
80°-90°	2.9	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°	6684.2	68.5
0°-40°	8878.1	91.0
0°-60°	9711.4	99.5
0°-90°	9756.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9756.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10567	10567	10567	10567	10567	
5°	10406	10409	10420	10356	10406	976
15°	9157	9194	9224	9164	9110	2554
25°	6828	6932	7043	6915	6781	3067
35°	2954	3488	4196	3434	2981	1885
45°	651	802	1182	792	644	546
55°	94	101	114	101	87	93
65°	27	34	27	34	27	30
75°	7	7	7	7	7	10
85°	0	0	0	0	0	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	10567.3	10567.3	10567.3	10567.3	10567.3	10567.3	10567.3	10567.3	10567.3	10567.3	10567.3
2.5°	10486.7	10560.7	10540.4	10587.5	10587.5	10533.8	10547.3	10567.3	10594.1	10614.4	10453.0
5°	10406.2	10473.3	10412.8	10479.9	10439.6	10379.3	10479.9	10426.2	10459.9	10419.6	10446.4
7.5°	10191.4	10298.8	10178.0	10258.5	10231.7	10198.0	10238.2	10224.8	10245.1	10211.4	10137.7
10°	9875.8	9963.2	9882.6	9996.6	9942.9	9909.5	9942.9	9976.6	9969.7	9936.3	9976.6
12.5°	9513.3	9613.9	9573.6	9640.7	9580.4	9580.4	9661.0	9640.7	9647.6	9620.7	9667.6
15°	9157.4	9231.4	9170.8	9258.2	9231.4	9157.4	9190.9	9190.9	9244.8	9224.5	9170.8
17.5°	8714.4	8774.7	8707.6	8727.8	8701.0	8687.6	8828.4	8734.4	8788.1	8747.8	8754.7
20°	8130.3	8157.2	8136.9	8190.6	8157.2	8197.4	8184.0	8170.6	8170.6	8190.6	8143.7
22.5°	7539.4	7539.4	7559.6	7573.1	7599.9	7559.6	7640.2	7573.1	7579.6	7626.8	7613.3
25°	6827.9	6807.6	6854.7	6921.8	6948.7	6915.0	7022.4	6968.7	7009.0	7042.7	6968.7
27.5°	5961.8	5961.8	6008.7	6122.9	6142.9	6183.2	6330.9	6330.9	6384.6	6337.7	6391.4
30°	4961.3	5035.3	5095.6	5243.2	5290.3	5377.7	5532.0	5606.0	5726.8	5706.5	5679.7
32.5°	3934.2	4035.0	4041.6	4196.1	4323.5	4471.2	4679.4	4853.9	4941.3	5001.6	4934.5
35°	2953.9	3014.5	3068.2	3175.6	3390.4	3585.2	3773.1	4001.3	4155.8	4196.1	4135.6
37.5°	2161.9	2175.3	2229.0	2329.6	2490.7	2678.9	2907.1	3155.3	3316.7	3376.9	3309.8
40°	1490.4	1503.8	1530.7	1618.1	1752.3	1886.6	2067.9	2323.0	2470.7	2591.5	2504.1
42.5°	1000.3	1013.7	1040.5	1107.7	1181.6	1309.0	1450.1	1611.2	1752.3	1806.0	1758.9
45°	651.2	651.2	664.6	711.8	752.0	852.6	953.4	1054.0	1147.9	1181.6	1147.9
47.5°	382.7	389.3	402.7	436.4	483.3	523.6	597.5	664.6	691.5	718.3	704.9
50°	221.6	221.6	241.6	261.9	295.3	322.2	349.0	375.9	389.3	402.7	389.3
52.5°	120.8	127.7	134.2	141.1	154.5	181.4	201.4	201.4	208.2	214.8	208.2
55°	94.0	94.0	94.0	94.0	100.8	100.8	100.8	107.4	107.4	114.2	107.4
57.5°	67.1	67.1	67.1	74.0	74.0	74.0	67.1	67.1	67.1	67.1	67.1
60°	53.7	53.7	53.7	53.7	53.7	53.7	53.7	47.1	47.1	47.1	47.1
62.5°	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3
65°	26.8	26.8	33.7	33.7	33.7	33.7	33.7	26.8	26.8	26.8	26.8
67.5°	20.3	20.3	20.3	20.3	26.8	26.8	20.3	20.3	20.3	20.3	20.3
70°	13.4	13.4	13.4	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3
72.5°	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4
75°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
77.5°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
80°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8	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°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	10567.3	10567.3	10567.3	10567.3	10567.3	10567.3	10567.3	10567.3
2.5°	10567.3	10453.0	10466.5	10527.0	10493.3	10527.0	10520.4	10520.4
5°	10453.0	10419.6	10365.9	10345.6	10385.9	10473.3	10459.9	10406.2
7.5°	10238.2	10151.1	10211.4	10238.2	10204.8	10258.5	10285.4	10171.1
10°	9983.2	9949.7	9936.3	9949.7	9936.3	9990.0	9922.9	9922.9
12.5°	9620.7	9567.0	9567.0	9647.6	9600.4	9560.2	9613.9	9607.3
15°	9258.2	9150.6	9150.6	9177.4	9197.7	9170.8	9177.4	9110.3
17.5°	8721.0	8687.6	8640.4	8714.4	8734.4	8707.6	8727.8	8694.1
20°	8217.4	8217.4	8130.3	8163.7	8190.6	8210.9	8224.3	8170.6
22.5°	7573.1	7586.5	7525.9	7593.1	7613.3	7546.2	7559.6	7546.2
25°	6982.1	6975.5	6928.4	6901.6	6915.0	6888.1	6881.6	6780.7
27.5°	6330.9	6263.8	6163.2	6190.1	6075.8	5981.8	5981.8	5827.3
30°	5626.0	5512.0	5377.7	5243.2	5142.7	5035.3	4974.7	4887.6
32.5°	4800.2	4646.0	4478.0	4296.7	4182.7	4021.6	3934.2	3981.3
35°	3981.3	3752.8	3524.6	3343.5	3168.7	3074.8	2967.4	2980.8
37.5°	3189.0	2866.8	2665.4	2470.7	2323.0	2202.2	2155.0	2141.6
40°	2329.6	2074.5	1873.1	1732.0	1631.5	1537.5	1483.8	1463.5
42.5°	1611.2	1430.1	1268.8	1154.8	1087.7	1027.1	1000.3	993.7
45°	1047.4	940.0	832.6	752.0	698.3	658.1	651.2	644.4
47.5°	658.1	604.1	537.0	476.7	429.6	402.7	382.7	382.7
50°	375.9	355.9	322.2	288.8	261.9	248.5	228.2	221.6
52.5°	201.4	201.4	187.9	161.1	141.1	127.7	127.7	120.8
55°	107.4	107.4	100.8	100.8	94.0	94.0	94.0	87.4
57.5°	67.1	67.1	74.0	74.0	67.1	67.1	67.1	67.1
60°	47.1	53.7	53.7	53.7	53.7	53.7	53.7	53.7
62.5°	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3
65°	26.8	33.7	33.7	33.7	33.7	26.8	26.8	26.8
67.5°	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3
70°	20.3	20.3	20.3	20.3	20.3	13.4	13.4	13.4
72.5°	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4
75°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
77.5°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
80°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
82.5°	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
87.5°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
90°	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)