

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: **LD4C60D010 EX4C609027 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: LD4C60D010 EX4C609027 4LBSQLI
Description: 4 INCH 6000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBSQ TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

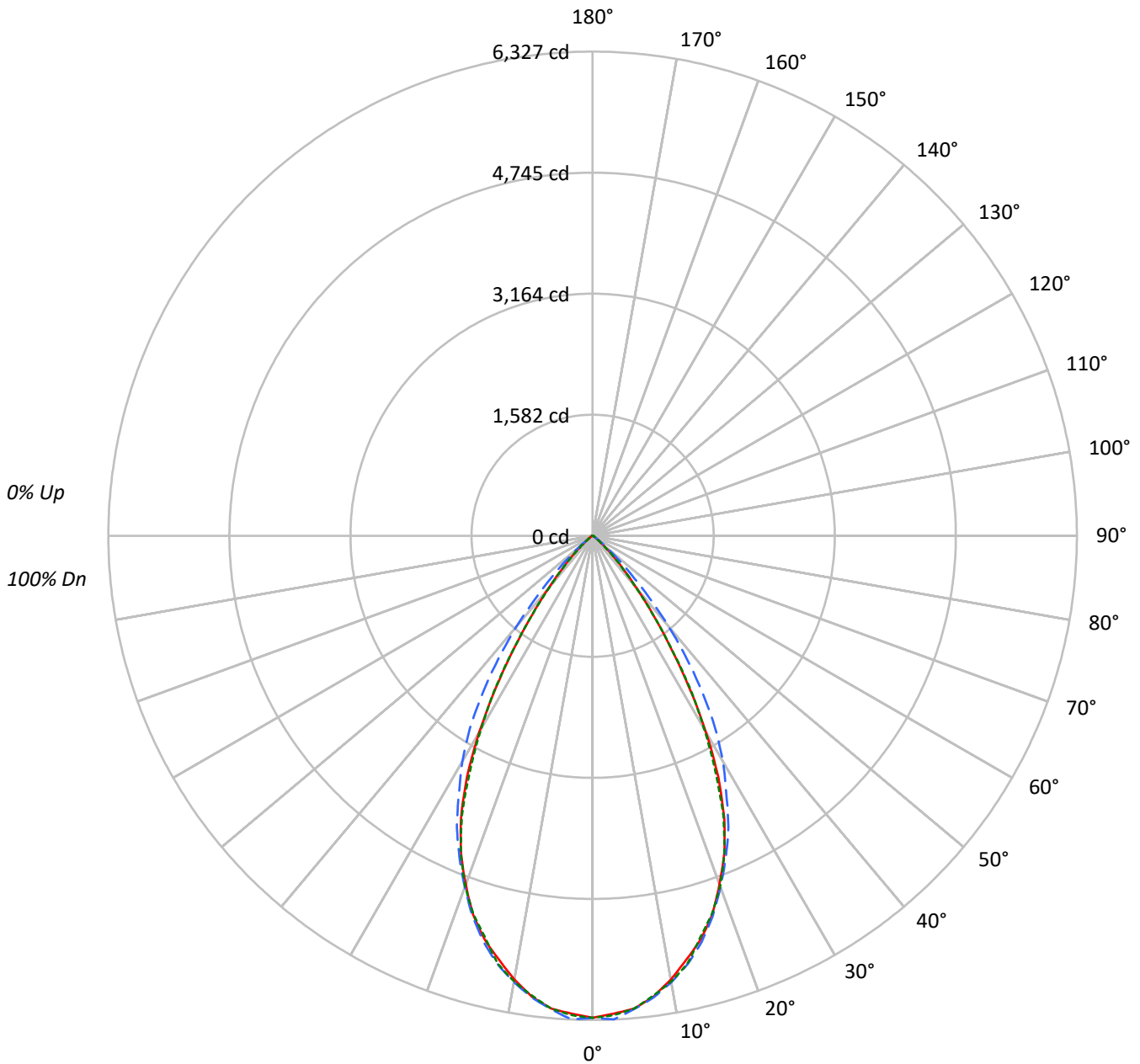
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5815.0 lumens
Efficiency: N/A
Efficacy: 80.8 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): 72
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									
RC	80									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	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	84	89	86	83	87	84	82	80																			
4	97	89	84	79	95	88	83	79	86	81	78	84	80	77	82	79	76	75																			
5	92	83	77	73	90	82	77	73	81	76	72	79	75	71	77	74	71	69																			
6	87	78	72	68	86	77	71	67	76	71	67	74	70	66	73	69	66	64																			
7	83	73	67	63	81	73	67	63	71	66	62	70	65	62	69	65	62	60																			
8	79	69	63	59	77	68	62	58	67	62	58	66	61	58	65	61	58	56																			
9	75	65	59	55	74	64	59	55	63	58	55	63	58	54	62	57	54	53																			
10	71	61	55	51	70	61	55	51	60	55	51	59	54	51	58	54	51	50																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	607745	607745	607745
5°	600758	601533	600758
10°	576734	580271	579487
15°	545234	549230	542427
20°	497594	501280	500058
25°	433275	446903	430284
30°	329479	378958	324576
35°	207395	294608	209280
40°	111888	194554	109873
45°	52972	96106	52413
50°	19830	36026	19830
55°	9421	11456	8764
60°	6175	5423	6175
65°	3653	3653	3653
70°	2257	3414	2257
75°	1528	1528	1528
80°	2278	2278	2278
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	584.0	10.0
10°-20°	1530.5	26.3
20°-30°	1869.6	32.2
30°-40°	1307.7	22.5
40°-50°	428.5	7.4
50°-60°	68.1	1.2
60°-70°	18.6	0.3
70°-80°	6.2	0.1
80°-90°	1.7	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°	3984.1	68.5
0°-40°	5291.8	91.0
0°-60°	5788.4	99.5
0°-90°	5815.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5815.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6299	6299	6299	6299	6299	
5°	6202	6204	6210	6172	6202	582
15°	5458	5480	5498	5462	5430	1523
25°	4070	4132	4198	4122	4042	1828
35°	1761	2079	2501	2047	1777	1124
45°	388	478	704	472	384	326
55°	56	60	68	60	52	55
65°	16	20	16	20	16	18
75°	4	4	4	4	4	6
85°	0	0	0	0	0	2
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°	6298.6	6298.6	6298.6	6298.6	6298.6	6298.6	6298.6	6298.6	6298.6	6298.6	6298.6
2.5°	6250.5	6294.6	6282.5	6310.6	6310.6	6278.6	6286.6	6298.6	6314.6	6326.6	6230.5
5°	6202.5	6242.5	6206.5	6246.5	6222.5	6186.5	6246.5	6214.5	6234.5	6210.5	6226.5
7.5°	6074.5	6138.5	6066.5	6114.5	6098.5	6078.4	6102.4	6094.4	6106.5	6086.4	6042.5
10°	5886.4	5938.5	5890.5	5958.4	5926.4	5906.5	5926.4	5946.5	5942.4	5922.5	5946.5
12.5°	5670.3	5730.3	5706.3	5746.3	5710.4	5710.4	5758.4	5746.3	5750.4	5734.4	5762.3
15°	5458.2	5502.3	5466.2	5518.3	5502.3	5458.2	5478.1	5478.1	5510.3	5498.2	5466.2
17.5°	5194.2	5230.1	5190.1	5202.2	5186.2	5178.2	5262.1	5206.1	5238.1	5214.1	5218.2
20°	4846.0	4862.0	4849.9	4881.9	4862.0	4886.0	4878.0	4870.0	4870.0	4881.9	4854.0
22.5°	4493.8	4493.8	4505.9	4513.9	4529.9	4505.9	4553.9	4513.9	4517.8	4545.9	4537.9
25°	4069.7	4057.6	4085.7	4125.7	4141.7	4121.6	4185.6	4153.6	4177.6	4197.7	4153.6
27.5°	3553.5	3553.5	3581.4	3649.5	3661.5	3685.5	3773.5	3773.5	3805.5	3777.6	3809.6
30°	2957.2	3001.2	3037.2	3125.2	3153.3	3205.4	3297.3	3341.4	3413.4	3401.3	3385.3
32.5°	2345.0	2405.0	2409.0	2501.1	2577.0	2665.0	2789.1	2893.1	2945.2	2981.2	2941.2
35°	1760.7	1796.8	1828.8	1892.8	2020.8	2136.9	2248.9	2385.0	2477.1	2501.1	2465.0
37.5°	1288.6	1296.6	1328.6	1388.5	1484.5	1596.7	1732.7	1880.7	1976.9	2012.8	1972.8
40°	888.3	896.3	912.3	964.4	1044.5	1124.5	1232.6	1384.6	1472.6	1544.6	1492.5
42.5°	596.2	604.2	620.2	660.2	704.3	780.2	864.3	960.4	1044.5	1076.5	1048.4
45°	388.2	388.2	396.2	424.2	448.2	508.2	568.3	628.2	684.2	704.3	684.2
47.5°	228.1	232.0	240.0	260.1	288.1	312.1	356.2	396.2	412.2	428.2	420.2
50°	132.1	132.1	144.0	156.1	176.0	192.0	208.0	224.0	232.0	240.0	232.0
52.5°	72.0	76.1	80.0	84.1	92.1	108.1	120.0	120.0	124.1	128.0	124.1
55°	56.0	56.0	56.0	56.0	60.1	60.1	60.1	64.0	64.0	68.1	64.0
57.5°	40.0	40.0	40.0	44.1	44.1	44.1	40.0	40.0	40.0	40.0	40.0
60°	32.0	32.0	32.0	32.0	32.0	32.0	32.0	28.1	28.1	28.1	28.1
62.5°	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
65°	16.0	16.0	20.1	20.1	20.1	20.1	20.1	16.0	16.0	16.0	16.0
67.5°	12.1	12.1	12.1	12.1	16.0	16.0	12.1	12.1	12.1	12.1	12.1
70°	8.0	8.0	8.0	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1
72.5°	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
75°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
77.5°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
80°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	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°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
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°	6298.6	6298.6	6298.6	6298.6	6298.6	6298.6	6298.6	6298.6
2.5°	6298.6	6230.5	6238.5	6274.5	6254.5	6274.5	6270.6	6270.6
5°	6230.5	6210.5	6178.5	6166.4	6190.4	6242.5	6234.5	6202.5
7.5°	6102.4	6050.5	6086.4	6102.4	6082.5	6114.5	6130.5	6062.4
10°	5950.4	5930.5	5922.5	5930.5	5922.5	5954.5	5914.5	5914.5
12.5°	5734.4	5702.3	5702.3	5750.4	5722.3	5698.3	5730.3	5726.4
15°	5518.3	5454.1	5454.1	5470.1	5482.2	5466.2	5470.1	5430.1
17.5°	5198.1	5178.2	5150.1	5194.2	5206.1	5190.1	5202.2	5182.1
20°	4897.9	4897.9	4846.0	4865.9	4881.9	4894.0	4902.0	4870.0
22.5°	4513.9	4521.9	4485.8	4525.8	4537.9	4497.9	4505.9	4497.9
25°	4161.6	4157.7	4129.6	4113.6	4121.6	4105.6	4101.7	4041.6
27.5°	3773.5	3733.5	3673.5	3689.5	3621.5	3565.4	3565.4	3473.3
30°	3353.3	3285.4	3205.4	3125.2	3065.3	3001.2	2965.2	2913.2
32.5°	2861.1	2769.2	2669.1	2561.0	2493.1	2397.0	2345.0	2373.0
35°	2373.0	2236.9	2100.8	1992.9	1888.7	1832.7	1768.7	1776.7
37.5°	1900.8	1708.7	1588.7	1472.6	1384.6	1312.6	1284.5	1276.5
40°	1388.5	1236.5	1116.5	1032.4	972.4	916.4	884.4	872.3
42.5°	960.4	852.4	756.2	688.3	648.3	612.2	596.2	592.3
45°	624.3	560.3	496.3	448.2	416.2	392.2	388.2	384.1
47.5°	392.2	360.1	320.1	284.1	256.1	240.0	228.1	228.1
50°	224.0	212.1	192.0	172.1	156.1	148.1	136.0	132.1
52.5°	120.0	120.0	112.0	96.0	84.1	76.1	76.1	72.0
55°	64.0	64.0	60.1	60.1	56.0	56.0	56.0	52.1
57.5°	40.0	40.0	44.1	44.1	40.0	40.0	40.0	40.0
60°	28.1	32.0	32.0	32.0	32.0	32.0	32.0	32.0
62.5°	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
65°	16.0	20.1	20.1	20.1	20.1	16.0	16.0	16.0
67.5°	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1
70°	12.1	12.1	12.1	12.1	12.1	8.0	8.0	8.0
72.5°	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
75°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
77.5°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
80°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
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°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
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)