

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: P563880

Luminaire Tested: **LD4C60D010 EX4C609030 4LBSQLI**

Issue Date: 2/9/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P563880  
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 EX4C609030 4LBSQLI  
Description: 4 INCH 6000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 4LBSQ TRIM WITH LI FINISH, DIM TO WARM  
Light Source: -  
Ballast/Driver: -

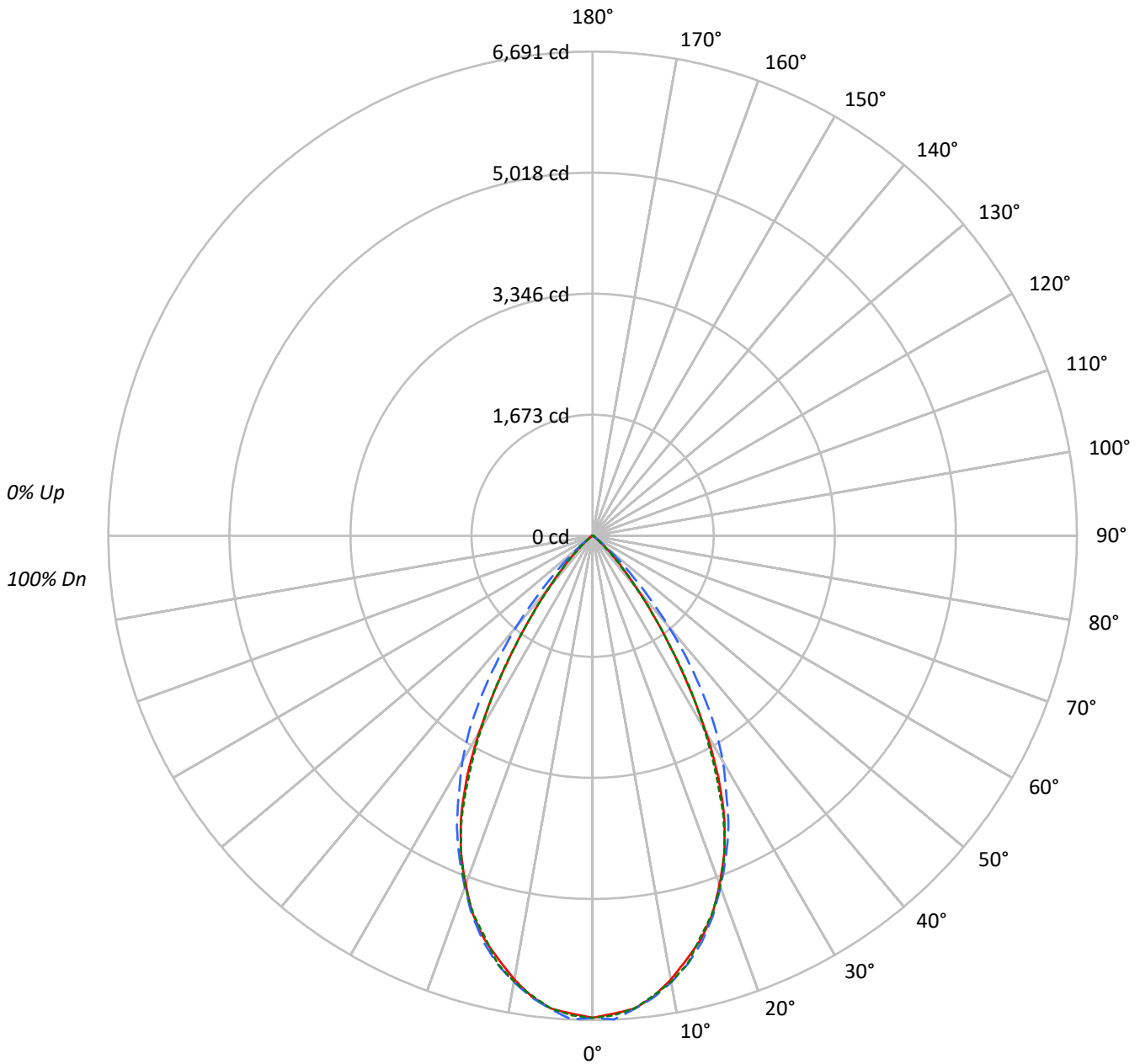
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6150.0 lumens  
Efficiency: N/A  
Efficacy: 85.4 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<sub>in</sub>): 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

TEST NUMBER: P563880

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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	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°	642751	642751	642751
5°	635366	636189	635366
10°	609958	613691	612868
15°	576640	580866	573674
20°	526262	530164	528870
25°	458241	472656	455079
30°	348453	400785	343283
35°	219339	311569	221341
40°	118337	205764	116208
45°	56015	101646	55428
50°	20985	38113	20985
55°	9959	12112	9269
60°	6542	5731	6542
65°	3858	3858	3858
70°	2370	3611	2370
75°	1603	1603	1603
80°	2389	2389	2389
85°	0	0	0



TEST NUMBER: P563880

CATALOG NUMBER: LD4C60D010 EX4C609030 4LBSQLI

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	617.6	10.0
10°-20°	1618.6	26.3
20°-30°	1977.3	32.2
30°-40°	1383.0	22.5
40°-50°	453.2	7.4
50°-60°	72.1	1.2
60°-70°	19.7	0.3
70°-80°	6.6	0.1
80°-90°	1.8	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°	4213.6	68.5
0°-40°	5596.6	91.0
0°-60°	6121.9	99.5
0°-90°	6150.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6150.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6661	6661	6661	6661	6661	
5°	6560	6562	6568	6528	6560	615
15°	5773	5796	5815	5777	5743	1610
25°	4304	4370	4440	4359	4274	1933
35°	1862	2199	2645	2165	1879	1188
45°	410	506	745	500	406	344
55°	59	64	72	64	55	59
65°	17	21	17	21	17	19
75°	4	4	4	4	4	6
85°	0	0	0	0	0	2
90°	0	0	0	0	0	



TEST NUMBER: P563880

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	6661.4	6661.4	6661.4	6661.4	6661.4	6661.4	6661.4	6661.4	6661.4	6661.4	6661.4
2.5°	6610.6	6657.3	6644.5	6674.2	6674.2	6640.3	6648.8	6661.4	6678.3	6691.1	6589.4
5°	6559.8	6602.1	6564.0	6606.3	6580.9	6542.9	6606.3	6572.4	6593.7	6568.3	6585.3
7.5°	6424.4	6492.2	6416.0	6466.7	6449.9	6428.6	6453.9	6445.5	6458.3	6437.0	6390.6
10°	6225.5	6280.6	6229.8	6301.7	6267.8	6246.7	6267.8	6289.0	6284.8	6263.6	6289.0
12.5°	5997.0	6060.4	6035.0	6077.4	6039.3	6039.3	6090.1	6077.4	6081.6	6064.7	6094.2
15°	5772.6	5819.3	5781.2	5836.2	5819.3	5772.6	5793.8	5793.8	5827.7	5814.9	5781.2
17.5°	5493.4	5531.4	5489.1	5501.8	5484.9	5476.5	5565.2	5506.0	5539.9	5514.4	5518.8
20°	5125.2	5142.1	5129.3	5163.2	5142.1	5167.5	5159.0	5150.6	5150.6	5163.2	5133.6
22.5°	4752.7	4752.7	4765.5	4773.9	4790.8	4765.5	4816.2	4773.9	4778.1	4807.8	4799.3
25°	4304.2	4291.4	4321.1	4363.4	4380.3	4359.1	4426.8	4392.9	4418.3	4439.6	4392.9
27.5°	3758.2	3758.2	3787.7	3859.8	3872.4	3897.8	3990.9	3990.9	4024.8	3995.2	4029.0
30°	3127.5	3174.2	3212.1	3305.2	3334.9	3390.0	3487.3	3533.9	3610.0	3597.2	3580.3
32.5°	2480.0	2543.6	2547.8	2645.1	2725.5	2818.6	2949.8	3059.8	3114.9	3152.9	3110.6
35°	1862.1	1900.2	1934.1	2001.8	2137.2	2260.0	2378.5	2522.4	2619.8	2645.1	2607.0
37.5°	1362.8	1371.3	1405.2	1468.5	1570.0	1688.8	1832.6	1989.0	2090.8	2128.8	2086.5
40°	939.5	947.9	964.9	1019.9	1104.6	1189.2	1303.5	1464.4	1557.4	1633.6	1578.5
42.5°	630.6	639.0	655.9	698.2	744.9	825.2	914.2	1015.7	1104.6	1138.5	1108.7
45°	410.5	410.5	419.0	448.7	474.1	537.5	601.0	664.4	723.6	744.9	723.6
47.5°	241.3	245.5	253.9	275.2	304.7	330.1	376.7	419.0	435.9	452.9	444.4
50°	139.8	139.8	152.4	165.1	186.1	203.1	220.0	236.9	245.5	253.9	245.5
52.5°	76.2	80.5	84.6	88.9	97.4	114.3	126.9	126.9	131.2	135.4	131.2
55°	59.2	59.2	59.2	59.2	63.6	63.6	63.6	67.7	67.7	72.0	67.7
57.5°	42.3	42.3	42.3	46.6	46.6	46.6	42.3	42.3	42.3	42.3	42.3
60°	33.9	33.9	33.9	33.9	33.9	33.9	33.9	29.7	29.7	29.7	29.7
62.5°	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4
65°	16.9	16.9	21.3	21.3	21.3	21.3	21.3	16.9	16.9	16.9	16.9
67.5°	12.8	12.8	12.8	12.8	16.9	16.9	12.8	12.8	12.8	12.8	12.8
70°	8.4	8.4	8.4	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8
72.5°	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
75°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
77.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
80°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	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°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P563880

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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	6661.4	6661.4	6661.4	6661.4	6661.4	6661.4	6661.4	6661.4
2.5°	6661.4	6589.4	6597.9	6636.0	6614.7	6636.0	6631.8	6631.8
5°	6589.4	6568.3	6534.5	6521.7	6547.1	6602.1	6593.7	6559.8
7.5°	6453.9	6399.1	6437.0	6453.9	6432.9	6466.7	6483.6	6411.7
10°	6293.2	6272.2	6263.6	6272.2	6263.6	6297.5	6255.2	6255.2
12.5°	6064.7	6030.9	6030.9	6081.6	6051.9	6026.5	6060.4	6056.2
15°	5836.2	5768.3	5768.3	5785.2	5798.0	5781.2	5785.2	5742.9
17.5°	5497.6	5476.5	5446.8	5493.4	5506.0	5489.1	5501.8	5480.6
20°	5180.1	5180.1	5125.2	5146.2	5163.2	5175.9	5184.5	5150.6
22.5°	4773.9	4782.4	4744.2	4786.5	4799.3	4756.9	4765.5	4756.9
25°	4401.4	4397.3	4367.6	4350.6	4359.1	4342.1	4338.0	4274.5
27.5°	3990.9	3948.6	3885.2	3902.1	3830.1	3770.9	3770.9	3673.4
30°	3546.5	3474.7	3390.0	3305.2	3241.8	3174.2	3135.9	3081.1
32.5°	3026.0	2928.7	2822.8	2708.5	2636.7	2535.2	2480.0	2509.7
35°	2509.7	2365.7	2221.9	2107.6	1997.5	1938.3	1870.5	1879.1
37.5°	2010.3	1807.2	1680.2	1557.4	1464.4	1388.2	1358.5	1350.0
40°	1468.5	1307.7	1180.8	1091.9	1028.5	969.2	935.4	922.6
42.5°	1015.7	901.5	799.8	727.9	685.6	647.4	630.6	626.4
45°	660.3	592.5	524.9	474.1	440.2	414.8	410.5	406.2
47.5°	414.8	380.8	338.5	300.5	270.8	253.9	241.3	241.3
50°	236.9	224.3	203.1	182.1	165.1	156.6	143.8	139.8
52.5°	126.9	126.9	118.5	101.5	88.9	80.5	80.5	76.2
55°	67.7	67.7	63.6	63.6	59.2	59.2	59.2	55.1
57.5°	42.3	42.3	46.6	46.6	42.3	42.3	42.3	42.3
60°	29.7	33.9	33.9	33.9	33.9	33.9	33.9	33.9
62.5°	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4
65°	16.9	21.3	21.3	21.3	21.3	16.9	16.9	16.9
67.5°	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8
70°	12.8	12.8	12.8	12.8	12.8	8.4	8.4	8.4
72.5°	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
75°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
77.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
80°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
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°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
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)