

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: P840468

Luminaire Tested: **LD6C05D010 EU6059027 6LBCSSQMMS**

Issue Date: 5/25/2022

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



**Test Information**

Test Method: LM-79-08  
Report Number: P840468  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P209457)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/25/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD6C05D010 EU6059027 6LBCSSQMMS  
Description: 6 INCH 500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS AND 6LBCSSQ TRIM WITH MMS FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

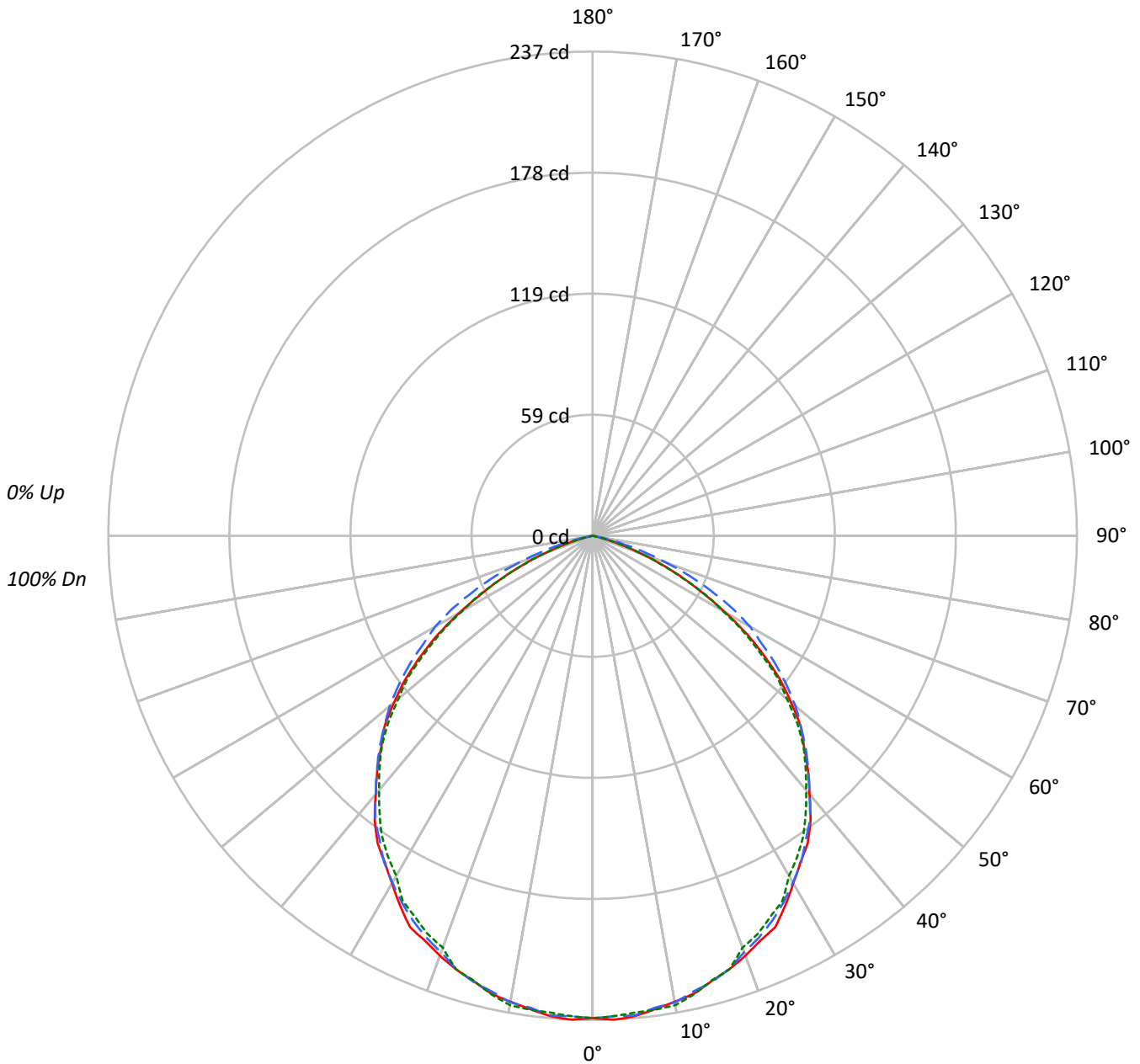
Lumens per Lamp: N/A  
Luminaire Lumens: 570.0 lumens  
Efficiency: N/A  
Efficacy: 79.2 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 7.2  
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: P840468

CATALOG NUMBER: LD6C05D010 EU6059027 6LBCSSQMMS

### Luminous Intensity Polar Plot





TEST NUMBER: P840468

CATALOG NUMBER: LD6C05D010 EU6059027 6LBCSSQMMS

**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	111	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87																			
2	102	94	88	83	99	93	87	82	89	84	80	86	82	79	83	80	77	75																			
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64																			
4	86	75	67	60	84	73	66	60	71	64	59	69	63	58	67	62	58	56																			
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51	49																			
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43																			
7	68	55	47	41	66	54	46	41	53	46	40	51	45	40	50	44	40	38																			
8	63	50	42	37	62	50	42	36	48	41	36	47	41	36	46	40	36	34																			
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32	31																			
10	55	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	10165	10165	10165
5°	10204	10187	10126
10°	10126	10139	10200
15°	10056	10074	10043
20°	10021	9938	9828
25°	10043	9877	9777
30°	9764	9744	9555
35°	9645	9556	9445
40°	9279	9279	9139
45°	8908	8987	8884
50°	8487	8674	8306
55°	7709	8182	7529
60°	6450	7647	6355
65°	4931	6530	4890
70°	3072	4821	3109
75°	1164	2612	1098
80°	74	422	74
85°	0	0	0



TEST NUMBER: P840468

CATALOG NUMBER: LD6C05D010 EU6059027 6LBCSSQMMS

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	22.3	3.9
10°-20°	63.7	11.2
20°-30°	95.8	16.8
30°-40°	113.3	19.9
40°-50°	113.1	19.8
50°-60°	93.8	16.5
60°-70°	54.8	9.6
70°-80°	13.0	2.3
80°-90°	0.1	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°	181.8	31.9
0°-40°	295.2	51.8
0°-60°	502.1	88.1
0°-90°	570.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	570.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	236	236	236	236	236	
5°	236	235	236	235	234	22
15°	226	225	226	225	225	64
25°	211	209	208	207	206	97
35°	184	182	182	181	180	114
45°	146	146	148	146	146	113
55°	103	106	109	106	100	91
65°	48	54	64	54	48	48
75°	7	10	16	10	7	9
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P840468

CATALOG NUMBER: LD6C05D010 EU6059027 6LBCSSQMMS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	236.1	236.1	236.1	236.1	236.1	236.1	236.1	236.1	236.1	236.1	236.1
2.5°	237.1	235.7	236.8	234.7	236.1	234.7	235.0	234.3	235.7	235.4	235.0
5°	236.1	236.4	235.7	236.4	235.4	234.3	235.4	234.7	232.6	235.7	235.0
7.5°	233.7	234.0	233.3	234.3	233.7	232.3	235.0	233.0	232.6	233.0	234.3
10°	231.6	232.3	231.9	231.6	231.9	231.9	231.2	230.2	231.2	231.9	231.6
12.5°	229.5	230.5	229.8	229.1	228.4	228.8	229.5	227.7	227.7	228.4	230.5
15°	225.6	226.3	226.7	225.3	225.3	225.6	227.0	224.2	225.6	226.0	226.3
17.5°	222.5	222.9	222.9	221.8	222.5	221.5	222.5	221.1	222.5	222.2	222.9
20°	218.7	219.4	218.7	218.7	218.0	218.3	218.3	218.3	217.3	216.9	217.6
22.5°	214.5	214.5	213.8	214.5	213.8	213.5	215.2	212.4	215.2	212.8	214.9
25°	211.4	209.6	208.6	208.2	209.6	208.2	208.9	207.9	208.6	207.9	208.2
27.5°	204.1	203.0	202.7	203.0	203.0	202.7	204.1	200.2	202.7	202.3	202.3
30°	196.4	196.4	197.1	196.4	197.1	196.0	197.4	194.3	196.4	196.0	196.4
32.5°	189.4	189.8	189.8	190.5	189.4	189.8	189.8	188.7	189.4	189.8	189.1
35°	183.5	181.8	181.8	181.8	181.8	181.8	182.5	181.4	182.5	181.8	181.8
37.5°	175.2	173.4	173.4	173.1	174.8	173.8	175.5	174.1	174.1	174.8	174.8
40°	165.1	165.8	164.7	166.1	165.8	164.4	167.5	165.4	166.8	165.1	166.4
42.5°	156.0	156.3	156.0	155.6	157.0	156.7	158.1	156.7	156.3	156.3	158.8
45°	146.3	146.3	146.3	147.3	146.3	146.6	148.0	147.3	148.0	147.6	150.1
47.5°	138.2	136.5	136.2	138.2	137.9	138.2	138.2	138.6	138.9	138.2	139.3
50°	126.7	126.1	126.1	126.4	126.7	127.4	128.5	129.2	128.5	129.5	129.9
52.5°	115.6	114.9	115.3	116.6	117.3	117.0	118.7	119.1	118.7	119.4	119.4
55°	102.7	102.0	103.1	104.8	105.9	106.9	108.6	107.3	108.6	109.0	109.3
57.5°	89.5	89.1	89.5	91.2	92.3	94.7	97.5	97.5	98.9	97.9	98.9
60°	74.9	74.9	76.3	77.3	80.1	81.8	84.6	86.0	87.4	88.8	88.1
62.5°	60.9	61.3	62.3	64.8	66.5	69.0	72.1	73.5	75.9	77.3	76.6
65°	48.4	48.4	49.1	51.2	52.9	56.1	58.9	62.0	63.4	64.1	64.4
67.5°	36.2	35.9	37.3	38.7	40.4	43.5	46.7	48.4	50.8	51.5	51.2
70°	24.4	24.7	25.4	26.8	28.9	31.3	34.8	36.2	37.6	38.3	37.6
72.5°	15.3	15.3	15.7	17.1	18.5	20.2	22.6	24.0	25.8	26.1	25.4
75°	7.0	7.0	7.7	8.4	9.4	10.8	12.5	13.6	14.6	15.7	15.7
77.5°	1.4	1.7	2.1	2.1	2.8	3.8	4.9	5.9	7.0	7.0	7.0
80°	0.3	0.3	0.3	0.3	0.3	0.3	0.7	1.0	1.7	1.7	1.7
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



TEST NUMBER: P840468

CATALOG NUMBER: LD6C05D010 EU6059027 6LBCSSQMMS

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	236.1	236.1	236.1	236.1	236.1	236.1	236.1	236.1
2.5°	236.1	238.2	236.1	235.0	236.4	236.1	235.0	235.4
5°	235.0	235.7	236.4	233.7	235.4	235.7	235.0	234.3
7.5°	234.0	234.3	234.0	233.3	233.3	233.3	234.0	234.0
10°	233.7	232.6	230.9	229.8	230.9	230.9	230.5	233.3
12.5°	229.1	230.5	229.5	227.4	229.5	229.1	229.1	229.8
15°	225.6	225.6	226.3	223.6	224.9	224.6	224.6	225.3
17.5°	222.2	222.2	221.8	221.1	220.8	221.8	220.8	222.5
20°	217.3	218.0	220.1	216.6	217.6	216.6	216.6	214.5
22.5°	211.4	214.9	213.1	212.8	212.4	212.8	213.5	211.0
25°	207.5	207.5	208.2	206.1	206.1	206.8	206.5	205.8
27.5°	202.3	202.0	201.6	200.9	202.7	201.3	201.3	201.3
30°	195.0	196.0	195.7	194.0	196.0	195.3	194.3	192.2
32.5°	188.7	190.1	188.0	187.7	187.3	187.7	188.0	186.3
35°	181.1	181.4	181.4	180.0	180.4	180.0	179.3	179.7
37.5°	174.1	173.8	172.0	171.3	171.7	171.7	172.0	171.3
40°	164.4	165.4	165.4	163.0	163.7	163.0	163.0	162.6
42.5°	156.3	156.7	155.6	154.6	154.6	154.3	153.6	154.3
45°	148.0	147.6	146.6	145.6	145.6	145.2	144.5	145.9
47.5°	138.6	137.9	137.6	136.2	136.2	134.1	134.4	135.8
50°	129.2	128.5	127.1	126.4	125.4	124.3	124.0	124.0
52.5°	118.0	118.0	116.6	115.3	114.9	114.2	113.5	113.9
55°	108.3	108.3	107.3	104.8	103.4	101.7	100.6	100.3
57.5°	97.2	96.5	94.4	91.6	90.2	88.8	87.7	87.7
60°	86.0	84.3	82.2	79.7	77.3	74.9	74.2	73.8
62.5°	73.8	72.1	68.3	65.5	63.7	62.3	60.9	62.0
65°	61.6	59.2	55.7	52.9	51.2	49.1	48.0	48.0
67.5°	48.7	46.3	42.8	40.0	38.3	36.9	35.5	35.5
70°	35.9	34.1	31.0	28.6	27.2	25.1	24.7	24.7
72.5°	24.4	22.3	19.8	18.1	16.7	15.3	14.6	14.3
75°	13.6	12.2	10.4	9.4	8.0	7.3	6.6	6.6
77.5°	5.6	4.5	3.5	2.8	2.1	1.7	1.4	1.7
80°	1.0	0.7	0.3	0.3	0.3	0.3	0.3	0.3
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°	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



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°    - - 45°-225°    - - - - 90°-270°









(END OF REPORT)