

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: P840477

Luminaire Tested: **LD6C05D010 EU6059040 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: P840477  
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 EU6059040 6LBCSSQMMS  
Description: 6 INCH 500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS AND 6LBCSSQ TRIM WITH MMS FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

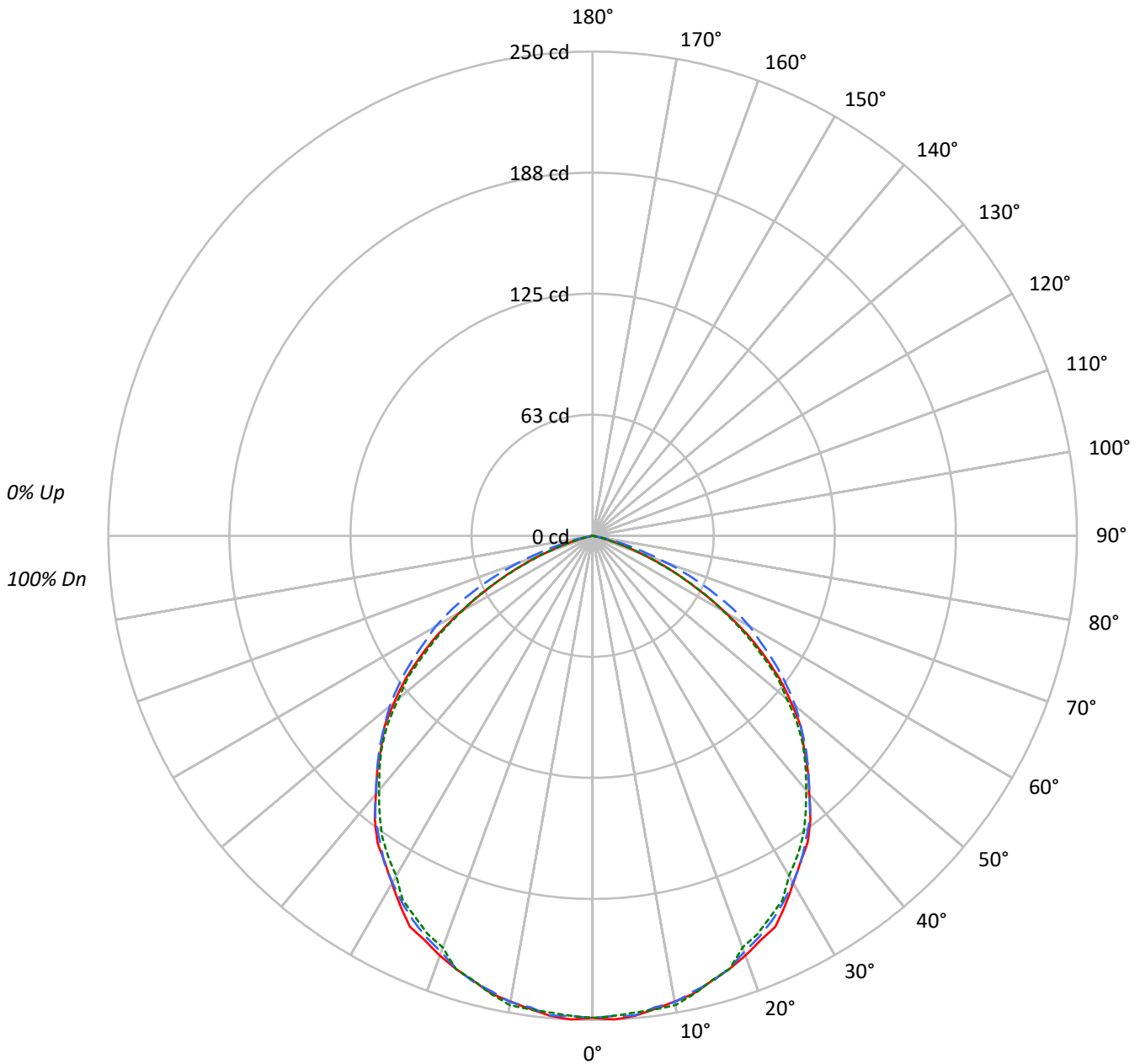
Lumens per Lamp: N/A  
Luminaire Lumens: 601.0 lumens  
Efficiency: N/A  
Efficacy: 83.5 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

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

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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	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°	10717	10717	10717
5°	10757	10745	10680
10°	10676	10690	10755
15°	10604	10622	10591
20°	10566	10479	10364
25°	10589	10413	10309
30°	10296	10276	10078
35°	10171	10076	9955
40°	9780	9780	9639
45°	9389	9481	9365
50°	8949	9150	8755
55°	8130	8625	7934
60°	6794	8060	6699
65°	5196	6887	5165
70°	3235	5086	3286
75°	1214	2745	1164
80°	99	446	99
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	23.5	3.9
10°-20°	67.1	11.2
20°-30°	101.0	16.8
30°-40°	119.5	19.9
40°-50°	119.3	19.8
50°-60°	98.9	16.5
60°-70°	57.8	9.6
70°-80°	13.8	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°	191.7	31.9
0°-40°	311.2	51.8
0°-60°	529.4	88.1
0°-90°	601.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	601.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	249	249	249	249	249	
5°	249	248	249	248	247	24
15°	238	238	238	237	238	67
25°	223	220	219	218	217	102
35°	194	192	192	191	189	120
45°	154	154	156	154	154	119
55°	108	112	115	112	106	96
65°	51	57	68	57	51	51
75°	7	11	16	10	7	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°	25°	30°	35°	40°	45°	50°
0°	248.9	248.9	248.9	248.9	248.9	248.9	248.9	248.9	248.9	248.9	248.9
2.5°	250.0	248.6	249.7	247.5	248.9	247.5	247.8	247.1	248.6	248.2	247.8
5°	248.9	249.3	248.6	249.3	248.2	247.1	248.2	247.5	245.3	248.6	247.8
7.5°	246.4	246.7	246.0	247.1	246.4	244.9	247.8	245.6	245.3	245.6	247.1
10°	244.2	244.9	244.5	244.2	244.5	244.5	243.8	242.7	243.8	244.5	244.2
12.5°	242.0	243.1	242.3	241.6	240.9	241.2	242.0	240.1	240.1	240.9	243.1
15°	237.9	238.6	239.0	237.6	237.6	237.9	239.4	236.4	237.9	238.3	238.6
17.5°	234.6	235.0	235.0	233.9	234.6	233.5	234.6	233.1	234.6	234.2	235.0
20°	230.6	231.3	230.6	230.6	229.8	230.2	230.2	230.2	229.1	228.7	229.5
22.5°	226.2	226.2	225.4	226.2	225.4	225.1	226.9	224.0	226.9	224.3	226.5
25°	222.9	221.0	219.9	219.6	221.0	219.6	220.3	219.2	219.9	219.2	219.6
27.5°	215.2	214.1	213.7	214.1	214.1	213.7	215.2	211.1	213.7	213.3	213.3
30°	207.1	207.1	207.8	207.1	207.8	206.7	208.2	204.9	207.1	206.7	207.1
32.5°	199.7	200.1	200.1	200.8	199.7	200.1	200.1	199.0	199.7	200.1	199.4
35°	193.5	191.7	191.7	191.7	191.7	191.7	192.4	191.3	192.4	191.7	191.7
37.5°	184.7	182.8	182.8	182.5	184.3	183.2	185.0	183.6	183.6	184.3	184.3
40°	174.0	174.8	173.7	175.1	174.8	173.3	176.6	174.4	175.9	174.0	175.5
42.5°	164.5	164.8	164.5	164.1	165.6	165.2	166.7	165.2	164.8	164.8	167.4
45°	154.2	154.2	154.2	155.3	154.2	154.6	156.0	155.3	156.0	155.7	158.2
47.5°	145.8	143.9	143.6	145.8	145.4	145.8	145.8	146.1	146.5	145.8	146.9
50°	133.6	132.9	132.9	133.3	133.6	134.4	135.5	136.2	135.5	136.6	136.9
52.5°	121.9	121.2	121.5	123.0	123.7	123.4	125.2	125.6	125.2	125.9	125.9
55°	108.3	107.6	108.7	110.5	111.6	112.7	114.5	113.1	114.5	114.9	115.3
57.5°	94.4	94.0	94.4	96.2	97.3	99.9	102.8	102.8	104.3	103.2	104.3
60°	78.9	78.9	80.4	81.5	84.5	86.3	89.2	90.7	92.2	93.6	92.9
62.5°	64.2	64.6	65.7	68.3	70.1	72.7	76.0	77.5	80.0	81.5	80.8
65°	51.0	51.0	51.8	54.0	55.8	59.1	62.1	65.4	66.8	67.6	67.9
67.5°	38.2	37.8	39.3	40.8	42.6	45.9	49.2	51.0	53.6	54.3	54.0
70°	25.7	26.1	26.8	28.3	30.5	33.0	36.7	38.2	39.6	40.4	39.6
72.5°	16.2	16.2	16.5	18.0	19.5	21.3	23.9	25.3	27.2	27.5	26.8
75°	7.3	7.3	8.1	8.8	9.9	11.4	13.2	14.3	15.4	16.5	16.5
77.5°	1.5	1.8	2.2	2.2	2.9	4.0	5.1	6.2	7.3	7.3	7.3
80°	0.4	0.4	0.4	0.4	0.4	0.4	0.7	1.1	1.8	1.8	1.8
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):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	248.9	248.9	248.9	248.9	248.9	248.9	248.9	248.9
2.5°	248.9	251.1	248.9	247.8	249.3	248.9	247.8	248.2
5°	247.8	248.6	249.3	246.4	248.2	248.6	247.8	247.1
7.5°	246.7	247.1	246.7	246.0	246.0	246.0	246.7	246.7
10°	246.4	245.3	243.4	242.3	243.4	243.4	243.1	246.0
12.5°	241.6	243.1	242.0	239.7	242.0	241.6	241.6	242.3
15°	237.9	237.9	238.6	235.7	237.2	236.8	236.8	237.6
17.5°	234.2	234.2	233.9	233.1	232.8	233.9	232.8	234.6
20°	229.1	229.8	232.0	228.4	229.5	228.4	228.4	226.2
22.5°	222.9	226.5	224.7	224.3	224.0	224.3	225.1	222.5
25°	218.8	218.8	219.6	217.4	217.4	218.1	217.7	217.0
27.5°	213.3	212.9	212.6	211.8	213.7	212.2	212.2	212.2
30°	205.6	206.7	206.3	204.5	206.7	206.0	204.9	202.7
32.5°	199.0	200.5	198.3	197.9	197.5	197.9	198.3	196.4
35°	190.9	191.3	191.3	189.8	190.2	189.8	189.1	189.4
37.5°	183.6	183.2	181.4	180.6	181.0	181.0	181.4	180.6
40°	173.3	174.4	174.4	171.8	172.6	171.8	171.8	171.5
42.5°	164.8	165.2	164.1	163.0	163.0	162.7	161.9	162.7
45°	156.0	155.7	154.6	153.5	153.5	153.1	152.4	153.8
47.5°	146.1	145.4	145.0	143.6	143.6	141.4	141.7	143.2
50°	136.2	135.5	134.0	133.3	132.2	131.1	130.7	130.7
52.5°	124.5	124.5	123.0	121.5	121.2	120.4	119.7	120.1
55°	114.2	114.2	113.1	110.5	109.0	107.2	106.1	105.7
57.5°	102.4	101.7	99.5	96.6	95.1	93.6	92.5	92.5
60°	90.7	88.9	86.6	84.1	81.5	78.9	78.2	77.8
62.5°	77.8	76.0	72.0	69.0	67.2	65.7	64.2	65.4
65°	65.0	62.4	58.7	55.8	54.0	51.8	50.7	50.7
67.5°	51.4	48.8	45.2	42.2	40.4	38.9	37.5	37.5
70°	37.8	36.0	32.7	30.1	28.6	26.4	26.1	26.1
72.5°	25.7	23.5	20.9	19.1	17.6	16.2	15.4	15.1
75°	14.3	12.8	11.0	9.9	8.4	7.7	7.0	7.0
77.5°	5.9	4.8	3.7	2.9	2.2	1.8	1.5	1.8
80°	1.1	0.7	0.4	0.4	0.4	0.4	0.4	0.4
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)