

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: P840525

Luminaire Tested: **LD6C10D010 EU6109027 6LBCSSQMW**

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: P840525  
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: LD6C10D010 EU6109027 6LBCSSQMW  
Description: 6 INCH 1000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS  
AND 6LBCSSQ TRIM WITH MW FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

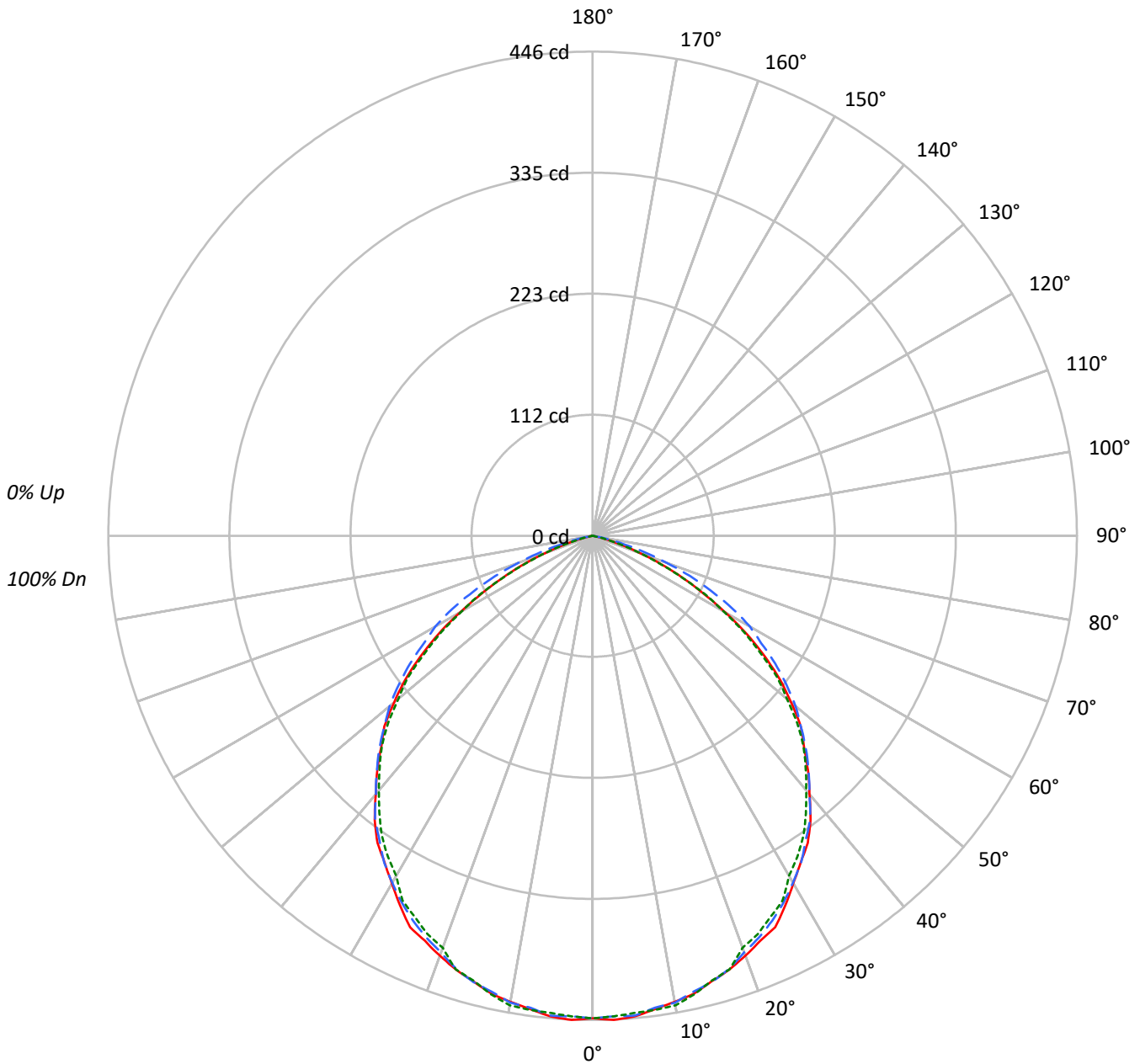
Lumens per Lamp: N/A  
Luminaire Lumens: 1073.0 lumens  
Efficiency: N/A  
Efficacy: 109.5 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 9.8  
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°	19134	19134	19134
5°	19207	19181	19069
10°	19057	19088	19202
15°	18935	18962	18904
20°	18859	18712	18502
25°	18903	18589	18404
30°	18380	18345	17987
35°	18155	17986	17776
40°	17463	17463	17204
45°	16763	16921	16726
50°	15982	16337	15634
55°	14518	15403	14172
60°	12133	14389	11969
65°	9281	12287	9220
70°	5778	9076	5854
75°	2179	4907	2063
80°	149	818	149
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	42.0	3.9
10°-20°	119.9	11.2
20°-30°	180.4	16.8
30°-40°	213.4	19.9
40°-50°	212.9	19.8
50°-60°	176.6	16.5
60°-70°	103.2	9.6
70°-80°	24.6	2.3
80°-90°	0.2	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°	342.3	31.9
0°-40°	555.6	51.8
0°-60°	945.1	88.1
0°-90°	1073.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1073.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	444	444	444	444	444	
5°	444	442	444	442	441	42
15°	425	424	425	423	424	120
25°	398	393	391	390	387	182
35°	345	342	342	340	338	215
45°	275	276	278	275	275	213
55°	193	200	205	200	189	172
65°	91	103	121	102	90	91
75°	13	19	30	19	12	18
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°	444.4	444.4	444.4	444.4	444.4	444.4	444.4	444.4	444.4	444.4	444.4
2.5°	446.4	443.8	445.7	441.8	444.4	441.8	442.5	441.2	443.8	443.1	442.5
5°	444.4	445.1	443.8	445.1	443.1	441.2	443.1	441.8	437.9	443.8	442.5
7.5°	439.8	440.5	439.2	441.2	439.8	437.2	442.5	438.5	437.9	438.5	441.2
10°	435.9	437.2	436.6	435.9	436.6	436.6	435.2	433.3	435.2	436.6	435.9
12.5°	432.0	433.9	432.6	431.3	430.0	430.7	432.0	428.7	428.7	430.0	433.9
15°	424.8	426.1	426.7	424.1	424.1	424.8	427.4	422.1	424.8	425.4	426.1
17.5°	418.9	419.5	419.5	417.5	418.9	416.9	418.9	416.2	418.9	418.2	419.5
20°	411.6	413.0	411.6	411.6	410.4	411.0	411.0	411.0	409.0	408.4	409.7
22.5°	403.8	403.8	402.5	403.8	402.5	401.8	405.1	399.9	405.1	400.5	404.5
25°	397.9	394.6	392.7	392.0	394.6	392.0	393.3	391.3	392.7	391.3	392.0
27.5°	384.1	382.2	381.5	382.2	382.2	381.5	384.1	376.9	381.5	380.8	380.8
30°	369.7	369.7	371.0	369.7	371.0	369.0	371.7	365.8	369.7	369.0	369.7
32.5°	356.6	357.2	357.2	358.6	356.6	357.2	357.2	355.3	356.6	357.2	355.9
35°	345.4	342.2	342.2	342.2	342.2	342.2	343.5	341.5	343.5	342.2	342.2
37.5°	329.7	326.4	326.4	325.8	329.1	327.1	330.4	327.7	327.7	329.1	329.1
40°	310.7	312.0	310.1	312.7	312.0	309.4	315.3	311.4	314.0	310.7	313.3
42.5°	293.7	294.3	293.7	293.0	295.6	295.0	297.6	295.0	294.3	294.3	298.9
45°	275.3	275.3	275.3	277.3	275.3	276.0	278.6	277.3	278.6	277.9	282.5
47.5°	260.2	256.9	256.3	260.2	259.6	260.2	260.2	260.9	261.5	260.2	262.2
50°	238.6	237.3	237.3	238.0	238.6	239.9	241.9	243.2	241.9	243.9	244.5
52.5°	217.6	216.3	217.0	219.6	220.9	220.3	223.5	224.2	223.5	224.8	224.8
55°	193.4	192.1	194.0	197.3	199.3	201.2	204.5	201.9	204.5	205.2	205.8
57.5°	168.5	167.8	168.5	171.7	173.7	178.3	183.5	183.5	186.2	184.2	186.2
60°	140.9	140.9	143.6	145.5	150.8	154.1	159.3	161.9	164.5	167.1	165.9
62.5°	114.7	115.4	117.3	121.9	125.2	129.8	135.7	138.3	142.9	145.5	144.2
65°	91.1	91.1	92.4	96.4	99.6	105.5	110.8	116.7	119.3	120.6	121.3
67.5°	68.2	67.5	70.1	72.8	76.0	81.9	87.8	91.1	95.7	97.0	96.4
70°	45.9	46.5	47.9	50.5	54.4	59.0	65.6	68.2	70.8	72.1	70.8
72.5°	28.8	28.8	29.5	32.1	34.7	38.0	42.6	45.2	48.5	49.2	47.9
75°	13.1	13.1	14.4	15.7	17.7	20.3	23.6	25.6	27.5	29.5	29.5
77.5°	2.6	3.3	3.9	3.9	5.2	7.2	9.2	11.1	13.1	13.1	13.1
80°	0.6	0.6	0.6	0.6	0.6	0.6	1.3	2.0	3.3	3.3	3.3
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°	444.4	444.4	444.4	444.4	444.4	444.4	444.4	444.4
2.5°	444.4	448.4	444.4	442.5	445.1	444.4	442.5	443.1
5°	442.5	443.8	445.1	439.8	443.1	443.8	442.5	441.2
7.5°	440.5	441.2	440.5	439.2	439.2	439.2	440.5	440.5
10°	439.8	437.9	434.6	432.6	434.6	434.6	433.9	439.2
12.5°	431.3	433.9	432.0	428.0	432.0	431.3	431.3	432.6
15°	424.8	424.8	426.1	420.8	423.4	422.8	422.8	424.1
17.5°	418.2	418.2	417.5	416.2	415.6	417.5	415.6	418.9
20°	409.0	410.4	414.3	407.7	409.7	407.7	407.7	403.8
22.5°	397.9	404.5	401.2	400.5	399.9	400.5	401.8	397.2
25°	390.7	390.7	392.0	388.1	388.1	389.4	388.7	387.4
27.5°	380.8	380.2	379.5	378.2	381.5	378.9	378.9	378.9
30°	367.1	369.0	368.4	365.1	369.0	367.7	365.8	361.8
32.5°	355.3	357.9	354.0	353.3	352.7	353.3	354.0	350.7
35°	340.9	341.5	341.5	338.9	339.5	338.9	337.6	338.2
37.5°	327.7	327.1	323.8	322.5	323.2	323.2	323.8	322.5
40°	309.4	311.4	311.4	306.8	308.1	306.8	306.8	306.1
42.5°	294.3	295.0	293.0	291.0	291.0	290.4	289.1	290.4
45°	278.6	277.9	276.0	274.0	274.0	273.3	272.0	274.7
47.5°	260.9	259.6	258.9	256.3	256.3	252.4	253.0	255.6
50°	243.2	241.9	239.3	238.0	236.0	234.0	233.4	233.4
52.5°	222.2	222.2	219.6	217.0	216.3	215.0	213.7	214.4
55°	203.9	203.9	201.9	197.3	194.7	191.4	189.4	188.8
57.5°	182.9	181.6	177.6	172.4	169.8	167.1	165.2	165.2
60°	161.9	158.6	154.7	150.1	145.5	140.9	139.6	139.0
62.5°	139.0	135.7	128.5	123.2	120.0	117.3	114.7	116.7
65°	116.0	111.4	104.9	99.6	96.4	92.4	90.5	90.5
67.5°	91.8	87.2	80.6	75.4	72.1	69.5	66.9	66.9
70°	67.5	64.2	58.3	53.8	51.1	47.2	46.5	46.5
72.5°	45.9	42.0	37.4	34.1	31.5	28.8	27.5	26.9
75°	25.6	22.9	19.7	17.7	15.1	13.8	12.4	12.4
77.5°	10.5	8.5	6.5	5.2	3.9	3.3	2.6	3.3
80°	2.0	1.3	0.6	0.6	0.6	0.6	0.6	0.6
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)