

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: P840499

Luminaire Tested: **LD6C08D010 EU6089040 6LBSQLI**

Issue Date: 3/23/2022

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: P840499  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P209348)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/23/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD6C08D010 EU6089040 6LBSQLI  
Description: 6 INCH 800 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS AND 6LBSQ TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

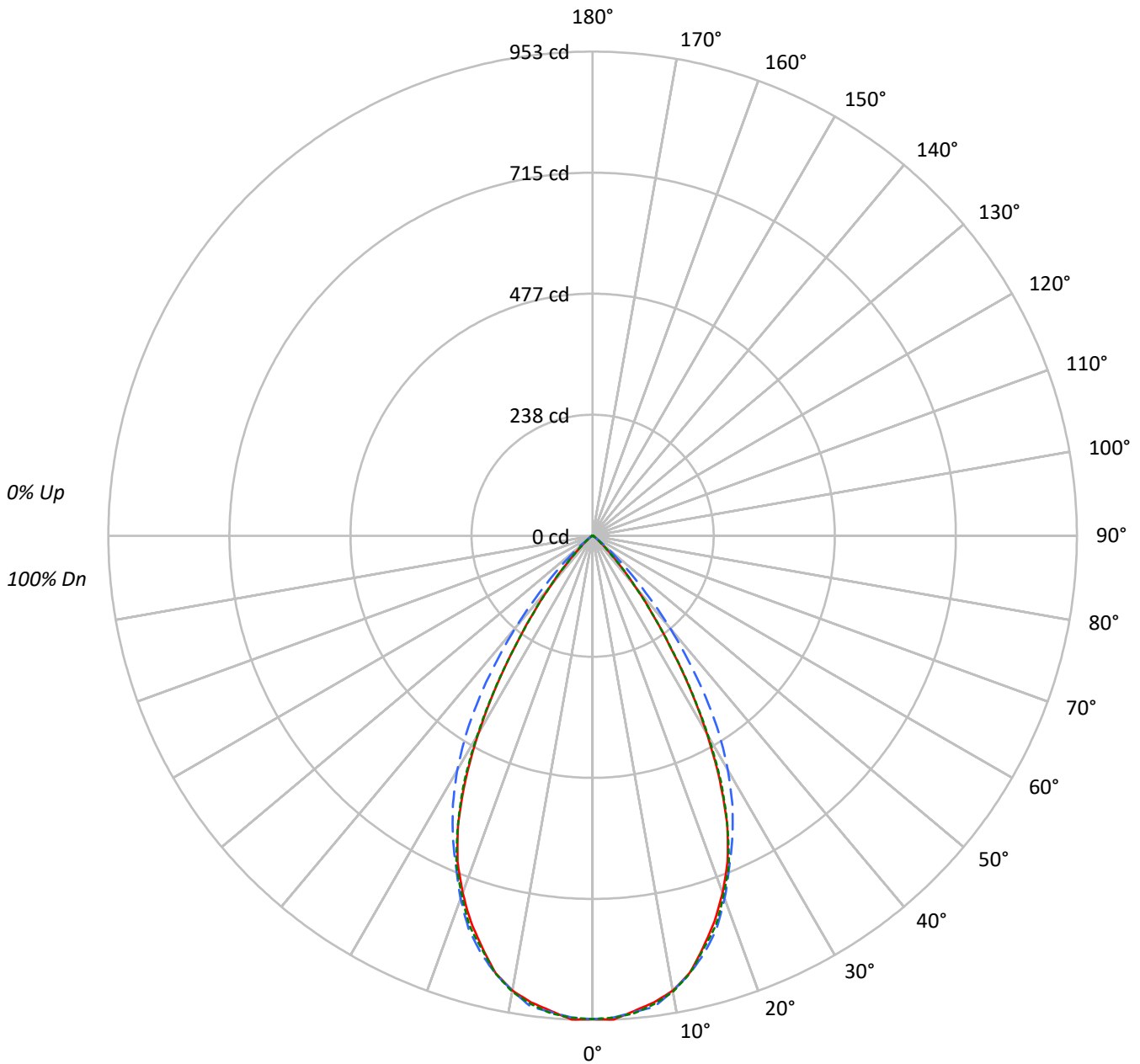
Lumens per Lamp: N/A  
Luminaire Lumens: 894.0 lumens  
Efficiency: N/A  
Efficacy: 90.3 lumens/watt  
Spacing Criteria (0/90/45): 0.92 / 0.92 / 0.95  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 9.9  
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									
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	106	101	97	94	98	95	92	95	92	90	92	90	88	87																			
3	102	96	91	87	100	94	90	86	92	88	85	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	78	73	90	82	77	73	81	76	72	79	75	72	77	74	71	69																			
6	87	78	72	68	86	77	72	67	76	71	67	74	70	67	73	69	66	65																			
7	83	73	67	63	81	73	67	63	71	66	62	70	66	62	69	65	62	60																			
8	79	69	63	59	77	68	63	59	67	62	58	66	62	58	65	61	58	56																			
9	75	65	59	55	74	64	59	55	64	58	55	63	58	54	62	57	54	53																			
10	71	61	55	52	70	61	55	51	60	55	51	59	55	51	59	54	51	50																			

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

	0°	45°	90°
0°	40959	40959	40959
5°	40575	40679	40778
10°	39733	39733	39838
15°	37407	37888	37541
20°	34250	34799	34497
25°	29758	30927	29787
30°	22382	26464	22591
35°	13897	20389	13960
40°	7312	13276	7279
45°	3026	6643	3099
50°	1165	2492	1165
55°	631	766	586
60°	413	362	413
65°	245	245	245
70°	151	227	151
75°	100	100	100
80°	149	149	149
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	89.1	10.0
10°-20°	236.9	26.5
20°-30°	290.8	32.5
30°-40°	200.7	22.5
40°-50°	62.8	7.0
50°-60°	9.8	1.1
60°-70°	2.8	0.3
70°-80°	0.9	0.1
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°	616.7	69.0
0°-40°	817.5	91.4
0°-60°	890.0	99.6
0°-90°	894.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	894.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	951	951	951	951	951	
5°	939	942	941	941	944	89
15°	839	851	850	849	842	235
25°	626	643	651	647	627	281
35°	264	313	388	316	266	169
45°	50	68	109	68	51	45
55°	8	9	10	9	8	8
65°	2	3	2	3	2	3
75°	1	1	1	1	1	1
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°	951.3	951.3	951.3	951.3	951.3	951.3	951.3	951.3	951.3	951.3	951.3
2.5°	953.1	940.0	948.4	946.5	951.3	954.3	951.3	956.7	953.1	949.0	950.2
5°	938.8	940.6	940.0	941.2	942.4	942.4	948.4	949.0	950.2	941.2	943.5
7.5°	926.2	926.2	929.2	927.9	932.2	931.0	931.6	936.3	936.9	934.6	932.8
10°	908.8	906.4	903.4	903.4	908.8	909.4	914.2	914.8	918.4	908.8	910.0
12.5°	881.8	880.6	875.8	878.2	882.4	880.0	887.8	888.4	887.2	883.0	885.4
15°	839.2	844.1	842.8	842.2	851.8	850.6	850.0	851.8	852.4	850.0	848.2
17.5°	796.7	800.9	801.5	802.7	804.5	806.3	808.7	815.3	812.9	811.1	817.1
20°	747.5	745.7	750.5	755.3	757.1	757.1	760.7	765.5	761.9	759.5	760.1
22.5°	694.2	697.2	694.8	699.6	702.0	705.0	708.5	712.8	709.7	703.2	711.0
25°	626.4	628.2	636.0	635.4	639.0	646.2	651.6	651.6	651.6	651.0	651.0
27.5°	541.3	540.1	549.7	556.3	565.3	576.7	583.9	595.2	597.1	595.2	591.1
30°	450.2	449.0	461.0	469.4	485.6	491.0	510.8	521.5	532.9	532.3	529.3
32.5°	355.5	357.9	367.5	379.5	392.6	409.4	428.0	452.0	462.2	464.6	459.2
35°	264.4	268.0	276.9	287.1	303.3	321.9	347.7	370.5	387.9	387.9	383.6
37.5°	190.6	191.8	200.2	206.8	223.6	240.4	262.6	293.7	304.5	308.7	304.5
40°	130.1	130.1	134.9	142.1	155.8	170.3	190.6	214.0	229.6	236.2	229.0
42.5°	82.7	83.9	87.5	92.3	102.5	115.1	130.7	148.1	159.5	164.2	157.7
45°	49.7	50.9	54.0	57.5	64.2	72.0	82.7	95.3	104.9	109.1	106.1
47.5°	30.0	31.2	32.4	34.8	39.6	45.0	50.3	57.5	63.6	64.2	63.0
50°	17.4	17.4	18.6	20.4	22.8	25.8	28.8	33.0	34.8	37.2	34.8
52.5°	11.4	11.4	11.4	12.0	13.2	14.4	15.6	18.0	19.2	19.2	18.6
55°	8.4	8.4	8.4	8.4	9.0	9.0	9.0	9.6	10.2	10.2	10.2
57.5°	6.0	6.0	6.0	6.6	6.6	6.6	6.0	6.0	6.0	6.0	6.0
60°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.2	4.2	4.2
62.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
65°	2.4	2.4	2.4	3.0	3.0	3.0	3.0	2.4	2.4	2.4	2.4
67.5°	1.8	1.8	1.8	2.4	2.4	2.4	2.4	2.4	1.8	1.8	1.8
70°	1.2	1.2	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
72.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
75°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
77.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
80°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
82.5°	0.0	0.0	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
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°	951.3	951.3	951.3	951.3	951.3	951.3	951.3	951.3
2.5°	953.7	950.8	950.8	950.8	949.6	950.8	952.5	949.6
5°	943.5	944.7	939.4	943.5	945.3	942.4	949.6	943.5
7.5°	934.6	932.8	924.4	930.4	934.0	935.2	934.6	929.8
10°	916.6	912.4	908.8	908.8	907.6	907.0	913.6	911.2
12.5°	884.2	887.2	881.8	884.8	882.4	883.0	883.6	882.4
15°	856.6	853.6	846.4	851.2	848.2	845.2	851.2	842.2
17.5°	813.5	812.9	808.7	805.7	806.9	806.3	809.3	805.1
20°	762.5	763.7	761.3	760.1	758.3	754.1	757.7	752.9
22.5°	707.4	708.5	711.0	706.2	706.8	700.8	706.2	700.8
25°	651.6	651.0	648.0	645.6	639.0	632.4	631.2	627.0
27.5°	590.5	586.3	579.1	571.3	561.1	552.1	551.5	548.5
30°	523.3	514.3	501.2	488.5	473.0	459.2	459.2	454.4
32.5°	452.6	432.2	414.2	398.6	378.3	370.5	362.7	358.5
35°	368.1	350.1	328.5	302.7	293.1	274.0	275.2	265.6
37.5°	288.3	266.2	245.8	224.8	208.0	199.0	194.2	189.4
40°	214.0	192.4	170.3	156.4	141.5	133.7	130.7	129.5
42.5°	146.3	128.3	113.9	102.5	94.7	86.3	83.9	82.7
45°	95.3	85.1	72.0	63.0	57.5	52.8	52.8	50.9
47.5°	56.9	50.3	43.8	37.8	34.2	31.2	30.0	29.4
50°	31.8	28.2	24.6	22.2	19.8	18.0	17.4	17.4
52.5°	17.4	15.6	14.4	12.6	11.4	11.4	11.4	10.8
55°	9.0	9.0	9.0	9.0	8.4	8.4	8.4	7.8
57.5°	6.0	6.0	6.6	6.6	6.6	6.0	6.0	6.0
60°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
62.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
65°	2.4	3.0	3.0	3.0	3.0	2.4	2.4	2.4
67.5°	1.8	2.4	2.4	2.4	1.8	1.8	1.8	1.8
70°	1.8	1.8	1.8	1.8	1.8	1.2	1.2	1.2
72.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
75°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
77.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
80°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
82.5°	0.6	0.6	0.6	0.6	0.6	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)