

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: P840495

Luminaire Tested: **LD6C08D010 EU6089035 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: P840495
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 EU6089035 6LBSQLI
Description: 6 INCH 800 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS AND 6LBSQ TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

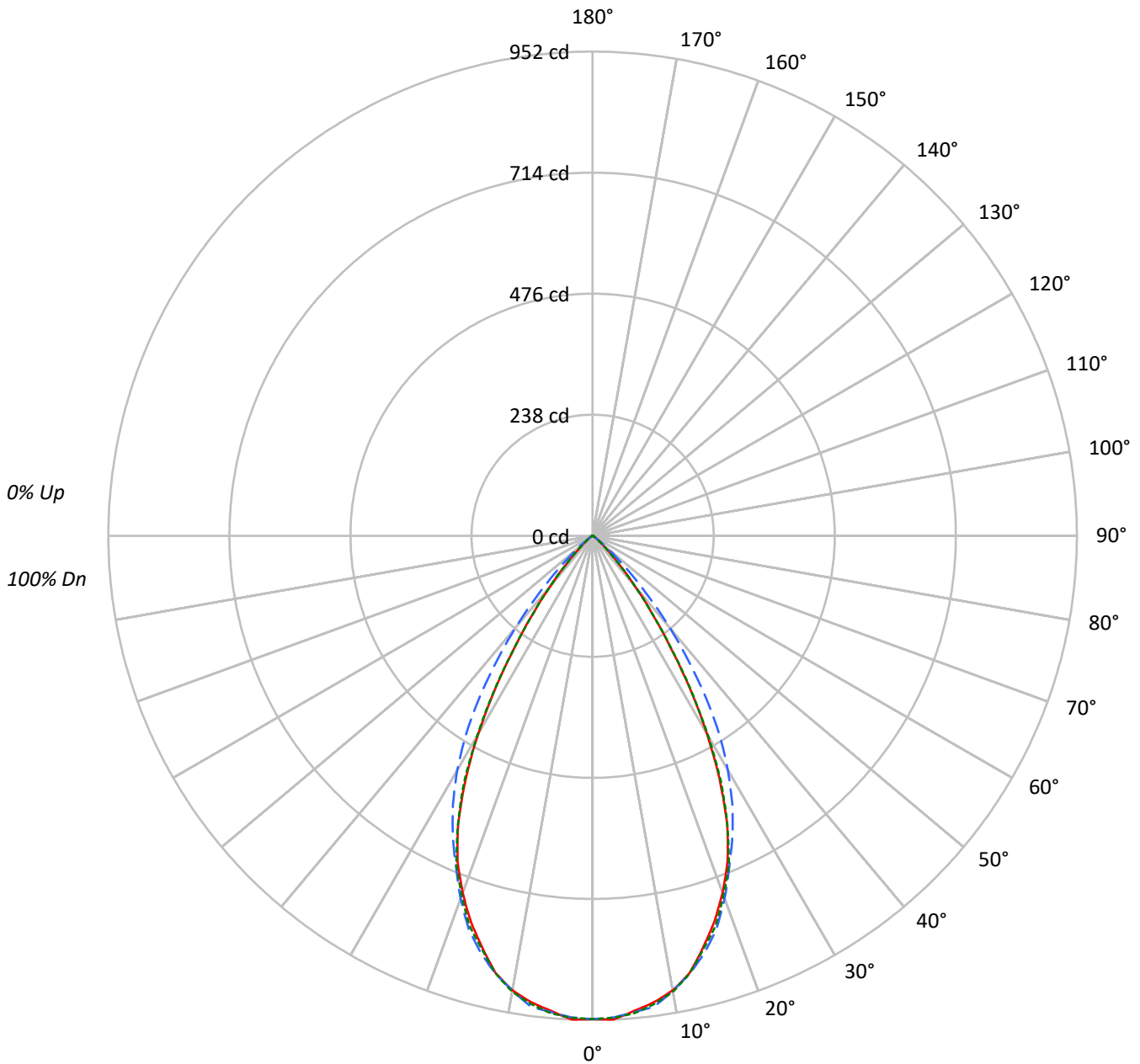
Lumens per Lamp: N/A
Luminaire Lumens: 893.0 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.92 / 0.95
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 9.9
Input Voltage (V):
Input Current (A_{in}): 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°	40916	40916	40916
5°	40528	40631	40735
10°	39685	39685	39794
15°	37367	37848	37501
20°	34213	34763	34460
25°	29725	30894	29753
30°	22357	26434	22566
35°	13881	20362	13945
40°	7307	13259	7273
45°	3026	6637	3099
50°	1165	2485	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°	89.0	10.0
10°-20°	236.7	26.5
20°-30°	290.4	32.5
30°-40°	200.5	22.5
40°-50°	62.7	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°	616.1	69.0
0°-40°	816.6	91.4
0°-60°	889.1	99.6
0°-90°	893.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	893.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	950	950	950	950	950	
5°	938	941	940	940	942	89
15°	838	850	849	848	841	234
25°	626	642	650	646	626	280
35°	264	312	387	315	265	169
45°	50	68	109	67	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°	950.3	950.3	950.3	950.3	950.3	950.3	950.3	950.3	950.3	950.3	950.3
2.5°	952.1	938.9	947.3	945.5	950.3	953.3	950.3	955.7	952.1	947.9	949.1
5°	937.7	939.5	938.9	940.1	941.3	941.3	947.3	947.9	949.1	940.1	942.5
7.5°	925.1	925.1	928.1	926.9	931.1	929.9	930.5	935.3	935.9	933.5	931.7
10°	907.7	905.4	902.4	902.4	907.7	908.3	913.2	913.8	917.3	907.7	909.0
12.5°	880.8	879.6	874.8	877.2	881.4	879.0	886.8	887.4	886.2	882.0	884.4
15°	838.3	843.1	841.9	841.3	850.9	849.7	849.1	850.9	851.5	849.1	847.3
17.5°	795.8	800.0	800.6	801.8	803.6	805.4	807.8	814.4	811.9	810.2	816.2
20°	746.7	744.9	749.7	754.5	756.3	756.3	759.9	764.6	761.1	758.7	759.3
22.5°	693.4	696.4	694.0	698.8	701.2	704.2	707.8	712.0	708.9	702.4	710.2
25°	625.7	627.5	635.3	634.7	638.3	645.5	650.9	650.9	650.9	650.3	650.3
27.5°	540.7	539.5	549.1	555.7	564.6	576.1	583.2	594.6	596.4	594.6	590.4
30°	449.7	448.5	460.5	468.8	485.0	490.4	510.2	521.0	532.3	531.7	528.7
32.5°	355.1	357.5	367.1	379.0	392.2	409.0	427.5	451.5	461.7	464.1	458.7
35°	264.1	267.7	276.6	286.8	303.0	321.6	347.3	370.1	387.4	387.4	383.2
37.5°	190.4	191.6	200.0	206.6	223.3	240.1	262.3	293.4	304.2	308.4	304.2
40°	130.0	130.0	134.7	141.9	155.7	170.1	190.4	213.8	229.3	235.9	228.7
42.5°	82.6	83.8	87.4	92.2	102.4	115.0	130.5	147.9	159.3	164.1	157.5
45°	49.7	50.9	53.9	57.5	64.1	71.9	82.6	95.2	104.8	109.0	106.0
47.5°	29.9	31.1	32.3	34.7	39.5	44.9	50.3	57.5	63.5	64.1	62.9
50°	17.4	17.4	18.6	20.4	22.7	25.8	28.7	32.9	34.7	37.1	34.7
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°	950.3	950.3	950.3	950.3	950.3	950.3	950.3	950.3
2.5°	952.7	949.7	949.7	949.7	948.5	949.7	951.5	948.5
5°	942.5	943.7	938.3	942.5	944.3	941.3	948.5	942.5
7.5°	933.5	931.7	923.3	929.3	932.9	934.1	933.5	928.7
10°	915.5	911.4	907.7	907.7	906.6	906.0	912.6	910.2
12.5°	883.2	886.2	880.8	883.8	881.4	882.0	882.6	881.4
15°	855.7	852.7	845.5	850.3	847.3	844.3	850.3	841.3
17.5°	812.5	811.9	807.8	804.8	806.0	805.4	808.4	804.2
20°	761.7	762.9	760.5	759.3	757.5	753.3	756.9	752.1
22.5°	706.6	707.8	710.2	705.4	706.0	700.0	705.4	700.0
25°	650.9	650.3	647.3	644.9	638.3	631.7	630.5	626.3
27.5°	589.8	585.6	578.4	570.6	560.5	551.5	550.9	547.9
30°	522.7	513.8	500.6	488.0	472.5	458.7	458.7	453.9
32.5°	452.1	431.7	413.7	398.2	377.8	370.1	362.3	358.1
35°	367.7	349.7	328.1	302.4	292.8	273.7	274.8	265.3
37.5°	288.0	265.9	245.5	224.6	207.8	198.8	194.0	189.2
40°	213.8	192.2	170.1	156.3	141.3	133.5	130.5	129.4
42.5°	146.1	128.1	113.8	102.4	94.6	86.2	83.8	82.6
45°	95.2	85.0	71.9	62.9	57.5	52.7	52.7	50.9
47.5°	56.9	50.3	43.7	37.7	34.1	31.1	29.9	29.3
50°	31.7	28.1	24.6	22.1	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)