

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: P840491

Luminaire Tested: **LD6C08D010 EU6089030 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: P840491
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 EU6089030 6LBSQLI
Description: 6 INCH 800 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS AND 6LBSQ TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

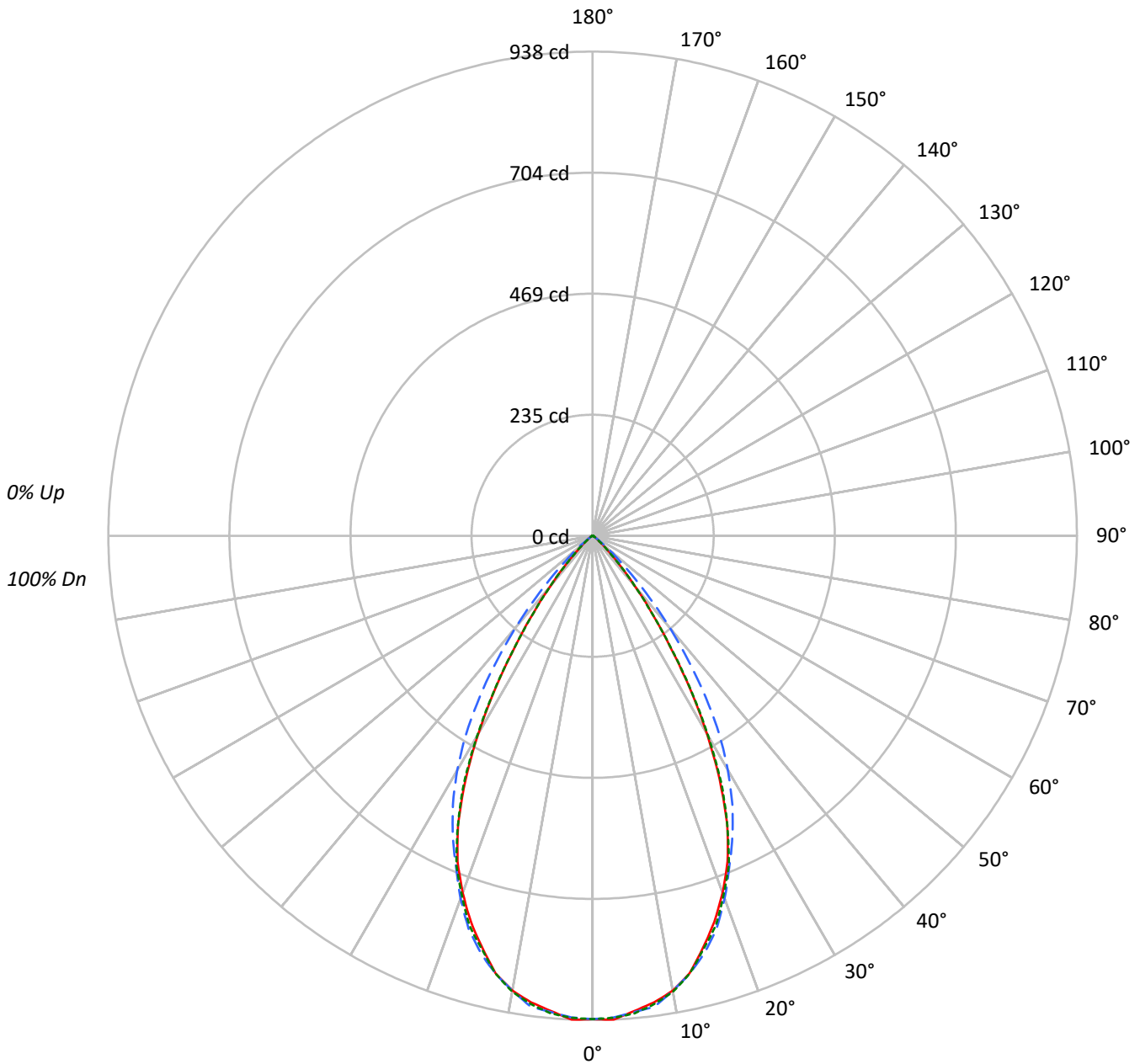
Lumens per Lamp: N/A
Luminaire Lumens: 880.0 lumens
Efficiency: N/A
Efficacy: 88.9 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.92 / 0.95
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 9.9
Input Voltage (V):
Input Current (Ain): 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°	40317	40317	40317
5°	39940	40039	40143
10°	39107	39107	39212
15°	36823	37295	36952
20°	33714	34254	33956
25°	29293	30442	29321
30°	22029	26051	22238
35°	13676	20068	13740
40°	7200	13068	7166
45°	2984	6540	3051
50°	1145	2452	1145
55°	623	751	578
60°	405	353	405
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°	87.7	10.0
10°-20°	233.2	26.5
20°-30°	286.2	32.5
30°-40°	197.6	22.5
40°-50°	61.8	7.0
50°-60°	9.7	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°	607.1	69.0
0°-40°	804.7	91.4
0°-60°	876.1	99.6
0°-90°	880.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	880.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	936	936	936	936	936	
5°	924	928	926	927	929	87
15°	826	838	837	836	829	231
25°	617	633	641	637	617	276
35°	260	308	382	311	261	166
45°	49	67	107	66	50	44
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°	936.4	936.4	936.4	936.4	936.4	936.4	936.4	936.4	936.4	936.4	936.4
2.5°	938.2	925.2	933.5	931.7	936.4	939.4	936.4	941.7	938.2	934.1	935.3
5°	924.1	925.8	925.2	926.4	927.6	927.6	933.5	934.1	935.3	926.4	928.8
7.5°	911.7	911.7	914.6	913.4	917.6	916.4	917.0	921.7	922.3	919.9	918.2
10°	894.5	892.2	889.2	889.2	894.5	895.1	899.9	900.4	904.0	894.5	895.7
12.5°	868.0	866.8	862.1	864.4	868.6	866.2	873.9	874.5	873.3	869.2	871.5
15°	826.1	830.8	829.6	829.0	838.5	837.3	836.7	838.5	839.1	836.7	835.0
17.5°	784.2	788.3	788.9	790.1	791.9	793.7	796.0	802.5	800.1	798.4	804.3
20°	735.8	734.0	738.8	743.5	745.2	745.2	748.8	753.5	750.0	747.6	748.2
22.5°	683.3	686.2	683.9	688.6	691.0	693.9	697.5	701.6	698.6	692.2	699.8
25°	616.6	618.4	626.1	625.5	629.0	636.1	641.4	641.4	641.4	640.8	640.8
27.5°	532.8	531.7	541.1	547.6	556.4	567.7	574.7	585.9	587.7	585.9	581.8
30°	443.1	442.0	453.8	462.0	478.0	483.3	502.8	513.4	524.6	524.0	521.0
32.5°	349.9	352.3	361.7	373.5	386.5	403.0	421.3	444.9	455.0	457.3	452.0
35°	260.2	263.8	272.6	282.6	298.6	316.9	342.2	364.7	381.8	381.8	377.6
37.5°	187.6	188.8	197.1	203.6	220.1	236.6	258.5	289.1	299.8	303.9	299.8
40°	128.1	128.1	132.8	139.9	153.4	167.6	187.6	210.6	226.0	232.5	225.4
42.5°	81.4	82.6	86.1	90.9	100.9	113.3	128.6	145.8	157.0	161.7	155.2
45°	49.0	50.1	53.1	56.6	63.1	70.8	81.4	93.8	103.3	107.4	104.4
47.5°	29.5	30.7	31.8	34.2	38.9	44.3	49.6	56.6	62.6	63.1	62.0
50°	17.1	17.1	18.3	20.1	22.4	25.4	28.3	32.4	34.2	36.6	34.2
52.5°	11.2	11.2	11.2	11.8	13.0	14.2	15.4	17.7	18.9	18.9	18.3
55°	8.3	8.3	8.3	8.3	8.9	8.9	8.9	9.4	10.0	10.0	10.0
57.5°	5.9	5.9	5.9	6.5	6.5	6.5	5.9	5.9	5.9	5.9	5.9
60°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.1	4.1	4.1
62.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
65°	2.4	2.4	2.4	2.9	2.9	2.9	2.9	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°	936.4	936.4	936.4	936.4	936.4	936.4	936.4	936.4
2.5°	938.8	935.9	935.9	935.9	934.7	935.9	937.6	934.7
5°	928.8	929.9	924.7	928.8	930.5	927.6	934.7	928.8
7.5°	919.9	918.2	909.9	915.8	919.3	920.5	919.9	915.2
10°	902.2	898.1	894.5	894.5	893.4	892.8	899.3	896.9
12.5°	870.4	873.3	868.0	871.0	868.6	869.2	869.8	868.6
15°	843.2	840.3	833.2	837.9	835.0	832.0	837.9	829.0
17.5°	800.7	800.1	796.0	793.1	794.2	793.7	796.6	792.5
20°	750.6	751.7	749.4	748.2	746.5	742.3	745.9	741.1
22.5°	696.3	697.5	699.8	695.1	695.7	689.8	695.1	689.8
25°	641.4	640.8	637.9	635.5	629.0	622.5	621.3	617.2
27.5°	581.2	577.1	570.0	562.3	552.3	543.5	542.9	539.9
30°	515.1	506.3	493.3	480.9	465.6	452.0	452.0	447.3
32.5°	445.5	425.4	407.7	392.4	372.3	364.7	357.0	352.9
35°	362.3	344.6	323.3	298.0	288.6	269.7	270.8	261.4
37.5°	283.8	262.0	241.9	221.3	204.8	195.9	191.2	186.5
40°	210.6	189.4	167.6	154.0	139.3	131.6	128.6	127.5
42.5°	144.0	126.3	112.1	100.9	93.2	85.0	82.6	81.4
45°	93.8	83.8	70.8	62.0	56.6	51.9	51.9	50.1
47.5°	56.1	49.6	43.1	37.2	33.6	30.7	29.5	28.9
50°	31.3	27.7	24.2	21.8	19.5	17.7	17.1	17.1
52.5°	17.1	15.4	14.2	12.4	11.2	11.2	11.2	10.6
55°	8.9	8.9	8.9	8.9	8.3	8.3	8.3	7.7
57.5°	5.9	5.9	6.5	6.5	6.5	5.9	5.9	5.9
60°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
62.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
65°	2.4	2.9	2.9	2.9	2.9	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)