

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: P840479

Luminaire Tested: **LD6C05D010 EU6059040 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: P840479  
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: LD6C05D010 EU6059040 6LBSQLI  
Description: 6 INCH 500 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**

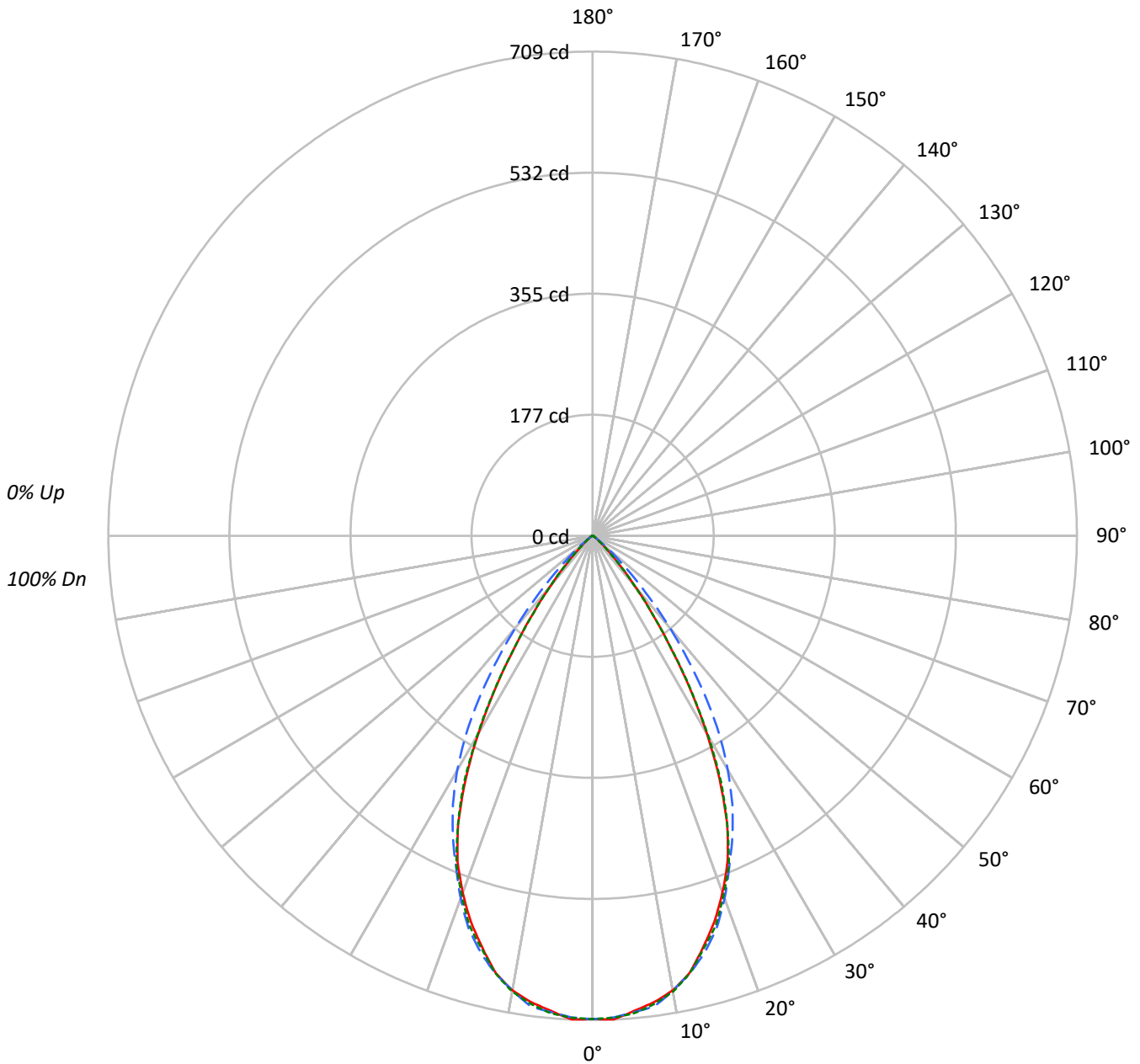
Lumens per Lamp: N/A  
Luminaire Lumens: 665.0 lumens  
Efficiency: N/A  
Efficacy: 92.4 lumens/watt  
Spacing Criteria (0/90/45): 0.92 / 0.92 / 0.95  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 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									
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	82	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°	30470	30470	30470
5°	30181	30258	30336
10°	29555	29555	29633
15°	27828	28184	27926
20°	25475	25888	25663
25°	22138	23003	22157
30°	16650	19688	16804
35°	10339	15164	10381
40°	5441	9875	5413
45°	2253	4938	2308
50°	864	1849	864
55°	465	570	435
60°	310	267	310
65°	183	183	183
70°	113	164	113
75°	67	67	67
80°	99	99	99
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	66.2	10.0
10°-20°	176.2	26.5
20°-30°	216.3	32.5
30°-40°	149.3	22.5
40°-50°	46.7	7.0
50°-60°	7.3	1.1
60°-70°	2.1	0.3
70°-80°	0.7	0.1
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°	458.8	69.0
0°-40°	608.1	91.4
0°-60°	662.1	99.6
0°-90°	665.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	665.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	708	708	708	708	708	
5°	698	701	700	700	702	66
15°	624	633	632	631	626	175
25°	466	478	484	481	466	209
35°	197	233	288	235	198	126
45°	37	51	81	50	38	33
55°	6	7	8	7	6	6
65°	2	2	2	2	2	2
75°	0	0	0	0	0	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°	707.7	707.7	707.7	707.7	707.7	707.7	707.7	707.7	707.7	707.7	707.7
2.5°	709.0	699.2	705.4	704.1	707.7	709.9	707.7	711.7	709.0	705.9	706.8
5°	698.3	699.6	699.2	700.1	701.0	701.0	705.4	705.9	706.8	700.1	701.9
7.5°	688.9	688.9	691.2	690.3	693.4	692.5	692.9	696.5	696.9	695.2	693.8
10°	676.0	674.2	672.0	672.0	676.0	676.4	680.0	680.5	683.1	676.0	676.9
12.5°	655.9	655.0	651.5	653.2	656.4	654.6	660.4	660.8	659.9	656.8	658.6
15°	624.3	627.8	626.9	626.5	633.6	632.7	632.3	633.6	634.1	632.3	631.0
17.5°	592.6	595.7	596.2	597.1	598.4	599.8	601.5	606.4	604.6	603.3	607.8
20°	556.0	554.7	558.3	561.8	563.2	563.2	565.9	569.4	566.7	565.0	565.4
22.5°	516.4	518.6	516.8	520.4	522.2	524.4	527.1	530.2	527.9	523.1	528.9
25°	466.0	467.3	473.1	472.7	475.3	480.7	484.7	484.7	484.7	484.2	484.2
27.5°	402.7	401.8	408.9	413.8	420.5	429.0	434.3	442.8	444.1	442.8	439.7
30°	334.9	334.0	342.9	349.1	361.2	365.2	379.9	387.9	396.4	396.0	393.7
32.5°	264.4	266.2	273.4	282.3	292.1	304.6	318.4	336.2	343.8	345.6	341.6
35°	196.7	199.3	206.0	213.6	225.6	239.5	258.6	275.6	288.5	288.5	285.4
37.5°	141.8	142.7	148.9	153.8	166.3	178.8	195.3	218.5	226.5	229.6	226.5
40°	96.8	96.8	100.3	105.7	115.9	126.6	141.8	159.2	170.8	175.7	170.3
42.5°	61.5	62.4	65.1	68.7	76.3	85.6	97.2	110.2	118.6	122.2	117.3
45°	37.0	37.9	40.1	42.8	47.7	53.5	61.5	70.9	78.0	81.1	78.9
47.5°	22.3	23.2	24.1	25.9	29.4	33.5	37.4	42.8	47.3	47.7	46.8
50°	12.9	12.9	13.8	15.2	16.9	19.2	21.4	24.5	25.9	27.6	25.9
52.5°	8.5	8.5	8.5	8.9	9.8	10.7	11.6	13.4	14.3	14.3	13.8
55°	6.2	6.2	6.2	6.2	6.7	6.7	6.7	7.1	7.6	7.6	7.6
57.5°	4.5	4.5	4.5	4.9	4.9	4.9	4.5	4.5	4.5	4.5	4.5
60°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.1	3.1	3.1
62.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
65°	1.8	1.8	1.8	2.2	2.2	2.2	2.2	1.8	1.8	1.8	1.8
67.5°	1.3	1.3	1.3	1.8	1.8	1.8	1.8	1.8	1.3	1.3	1.3
70°	0.9	0.9	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
72.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
75°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
77.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
80°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
82.5°	0.0	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
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°	707.7	707.7	707.7	707.7	707.7	707.7	707.7	707.7
2.5°	709.4	707.2	707.2	707.2	706.3	707.2	708.5	706.3
5°	701.9	702.7	698.7	701.9	703.2	701.0	706.3	701.9
7.5°	695.2	693.8	687.6	692.1	694.7	695.6	695.2	691.6
10°	681.8	678.7	676.0	676.0	675.1	674.7	679.6	677.8
12.5°	657.7	659.9	655.9	658.2	656.4	656.8	657.3	656.4
15°	637.2	635.0	629.6	633.2	631.0	628.7	633.2	626.5
17.5°	605.1	604.6	601.5	599.3	600.2	599.8	602.0	598.9
20°	567.2	568.1	566.3	565.4	564.1	560.9	563.6	560.1
22.5°	526.2	527.1	528.9	525.3	525.7	521.3	525.3	521.3
25°	484.7	484.2	482.0	480.2	475.3	470.4	469.5	466.4
27.5°	439.2	436.1	430.8	425.0	417.4	410.7	410.2	408.0
30°	389.3	382.6	372.8	363.4	351.8	341.6	341.6	338.0
32.5°	336.7	321.5	308.1	296.5	281.4	275.6	269.8	266.7
35°	273.8	260.4	244.3	225.2	218.1	203.8	204.7	197.5
37.5°	214.5	198.0	182.8	167.2	154.7	148.0	144.5	140.9
40°	159.2	143.1	126.6	116.4	105.2	99.4	97.2	96.3
42.5°	108.8	95.4	84.7	76.3	70.5	64.2	62.4	61.5
45°	70.9	63.3	53.5	46.8	42.8	39.3	39.3	37.9
47.5°	42.4	37.4	32.6	28.1	25.4	23.2	22.3	21.8
50°	23.6	21.0	18.3	16.5	14.7	13.4	12.9	12.9
52.5°	12.9	11.6	10.7	9.4	8.5	8.5	8.5	8.0
55°	6.7	6.7	6.7	6.7	6.2	6.2	6.2	5.8
57.5°	4.5	4.5	4.9	4.9	4.9	4.5	4.5	4.5
60°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
62.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
65°	1.8	2.2	2.2	2.2	2.2	1.8	1.8	1.8
67.5°	1.3	1.8	1.8	1.8	1.3	1.3	1.3	1.3
70°	1.3	1.3	1.3	1.3	1.3	0.9	0.9	0.9
72.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
75°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
77.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
80°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
82.5°	0.4	0.4	0.4	0.4	0.4	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)