

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: P840577

Luminaire Tested: **LD6C130D010 EU61309050 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: P840577
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: LD6C130D010 EU61309050 6LBSQLI
Description: 6 INCH 13000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 6LBSQ TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

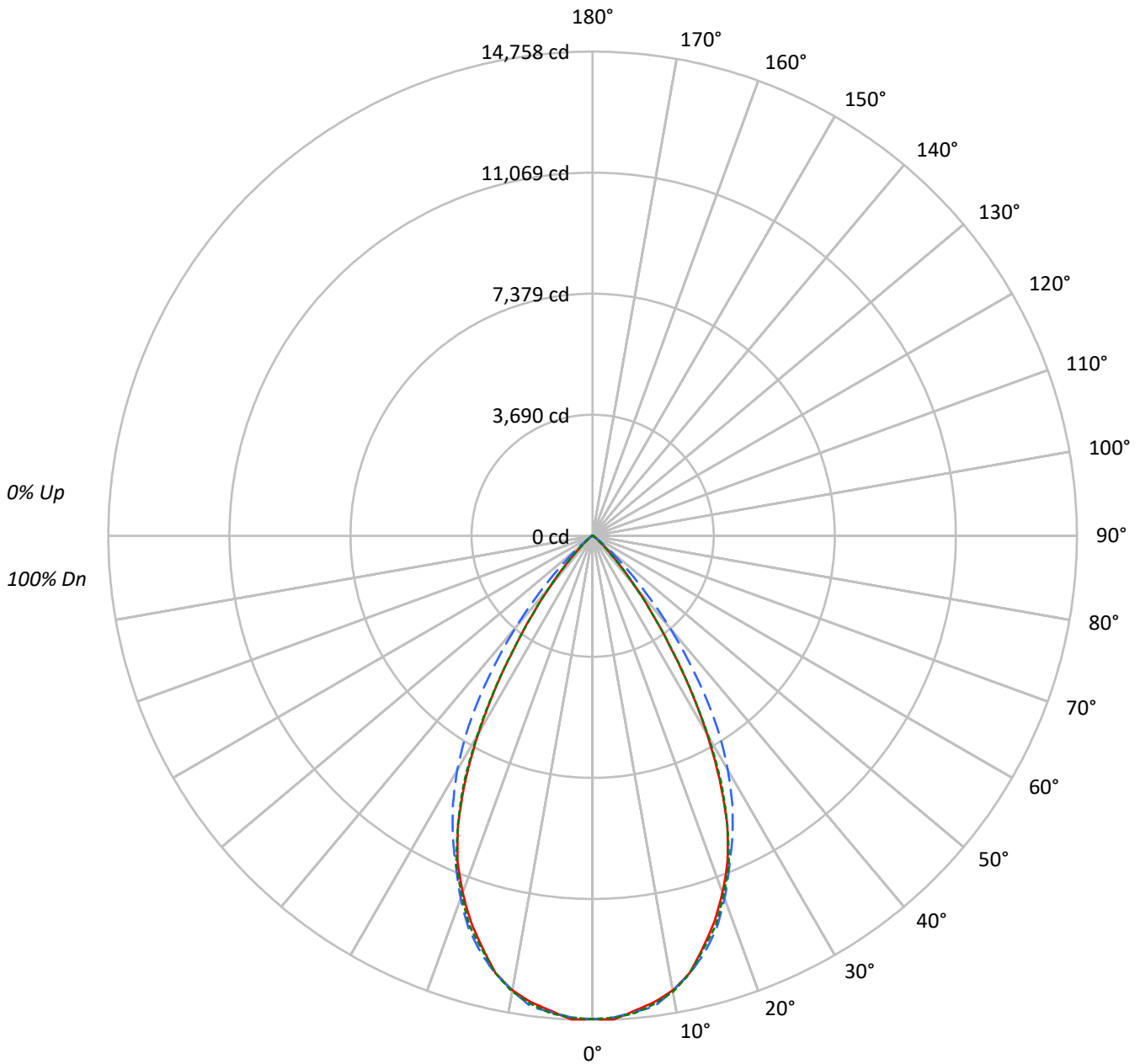
Lumens per Lamp: N/A
Luminaire Lumens: 13841.9 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.92 / 0.95
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 144.3
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					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								
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°	634206	634206	634206
5°	628213	629812	631411
10°	615165	615165	616809
15°	579206	586649	581269
20°	530299	538825	534138
25°	460786	478848	461223
30°	346538	409767	349785
35°	215149	315646	216121
40°	113214	205548	112697
45°	46897	102843	48024
50°	18038	38549	18038
55°	9758	11838	9068
60°	6415	5571	6415
65°	3769	3769	3769
70°	2329	3487	2329
75°	1530	1530	1530
80°	2281	2281	2281
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1379.0	10.0
10°-20°	3668.3	26.5
20°-30°	4502.0	32.5
30°-40°	3107.9	22.5
40°-50°	971.7	7.0
50°-60°	151.8	1.1
60°-70°	43.8	0.3
70°-80°	14.3	0.1
80°-90°	3.2	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°	9549.2	69.0
0°-40°	12657.1	91.4
0°-60°	13780.7	99.6
0°-90°	13841.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13841.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14730	14730	14730	14730	14730	
5°	14535	14591	14572	14577	14609	###
15°	12994	13180	13161	13143	13040	3634
25°	9699	9950	10080	10015	9709	4346
35°	4093	4840	6005	4887	4112	2615
45°	770	1054	1689	1044	789	690
55°	130	139	158	139	121	127
65°	37	46	37	46	37	41
75°	9	9	9	9	9	13
85°	0	0	0	0	0	1
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°	14729.9	14729.9	14729.9	14729.9	14729.9	14729.9	14729.9	14729.9	14729.9	14729.9	14729.9
2.5°	14757.7	14553.7	14683.7	14655.4	14729.9	14776.2	14729.9	14813.1	14757.7	14693.0	14711.4
5°	14535.2	14562.9	14553.7	14572.2	14590.7	14590.7	14683.7	14693.0	14711.4	14572.2	14609.2
7.5°	14339.9	14339.9	14386.7	14367.6	14432.9	14414.4	14423.7	14497.6	14506.9	14469.9	14442.2
10°	14070.6	14033.7	13987.4	13987.4	14070.6	14079.9	14154.4	14163.7	14219.1	14070.6	14089.7
12.5°	13653.4	13634.4	13560.4	13597.4	13662.7	13625.1	13745.9	13755.1	13736.6	13671.9	13708.9
15°	12994.1	13068.7	13049.6	13040.4	13188.9	13170.4	13161.1	13188.9	13198.1	13161.1	13133.4
17.5°	12335.4	12400.1	12409.4	12427.9	12455.6	12483.9	12520.9	12623.2	12585.6	12557.9	12650.9
20°	11573.8	11546.1	11620.7	11694.6	11722.3	11722.3	11778.4	11852.4	11796.9	11759.9	11769.2
22.5°	10748.1	10794.4	10757.4	10831.3	10868.9	10915.1	10970.6	11035.9	10989.1	10887.4	11008.2
25°	9699.4	9727.1	9847.9	9838.6	9894.1	10005.6	10088.8	10088.8	10088.8	10079.6	10079.6
27.5°	8381.4	8362.9	8511.4	8613.1	8752.3	8929.1	9040.1	9216.3	9244.6	9216.3	9151.6
30°	6970.3	6951.8	7137.3	7267.3	7518.1	7601.9	7908.1	8075.1	8251.3	8242.1	8195.9
32.5°	5503.8	5541.3	5689.8	5875.3	6079.3	6339.3	6627.1	6998.0	7156.4	7193.4	7109.6
35°	4093.3	4148.8	4288.0	4445.8	4696.6	4984.3	5383.0	5736.1	6005.3	6005.3	5940.0
37.5°	2951.5	2970.0	3100.0	3202.3	3461.8	3721.8	4065.6	4548.1	4715.1	4779.8	4715.1
40°	2014.3	2014.3	2088.3	2199.8	2413.0	2636.0	2951.5	3313.3	3554.8	3657.1	3545.5
42.5°	1281.0	1299.5	1355.0	1429.5	1587.3	1782.0	2023.5	2292.8	2469.0	2543.0	2441.3
45°	770.2	788.7	835.5	891.0	993.3	1114.0	1281.0	1475.8	1624.3	1689.0	1642.8
47.5°	464.0	482.5	501.0	538.5	612.5	696.3	779.5	891.0	984.0	993.3	974.8
50°	269.3	269.3	287.8	315.5	352.5	399.3	445.5	510.2	538.5	575.5	538.5
52.5°	176.2	176.2	176.2	185.5	204.0	223.0	241.5	278.5	297.0	297.0	287.8
55°	130.0	130.0	130.0	130.0	139.3	139.3	139.3	148.5	157.7	157.7	157.7
57.5°	93.0	93.0	93.0	102.3	102.3	102.3	93.0	93.0	93.0	93.0	93.0
60°	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	64.7	64.7	64.7
62.5°	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5
65°	37.0	37.0	37.0	46.2	46.2	46.2	46.2	37.0	37.0	37.0	37.0
67.5°	27.7	27.7	27.7	37.0	37.0	37.0	37.0	37.0	27.7	27.7	27.7
70°	18.5	18.5	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7
72.5°	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5
75°	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2
77.5°	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2
80°	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2
82.5°	0.0	0.0	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2
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°	14729.9	14729.9	14729.9	14729.9	14729.9	14729.9	14729.9	14729.9
2.5°	14766.9	14720.7	14720.7	14720.7	14702.2	14720.7	14748.4	14702.2
5°	14609.2	14627.7	14544.4	14609.2	14636.9	14590.7	14702.2	14609.2
7.5°	14469.9	14442.2	14312.2	14405.2	14460.7	14479.2	14469.9	14395.9
10°	14191.4	14126.7	14070.6	14070.6	14052.1	14042.9	14145.2	14108.2
12.5°	13690.4	13736.6	13653.4	13699.7	13662.7	13671.9	13681.2	13662.7
15°	13263.4	13217.2	13105.7	13179.6	13133.4	13087.2	13179.6	13040.4
17.5°	12594.9	12585.6	12520.9	12474.7	12493.2	12483.9	12530.1	12465.4
20°	11806.1	11824.6	11787.6	11769.2	11741.4	11676.1	11732.2	11657.6
22.5°	10952.1	10970.6	11008.2	10933.6	10942.9	10850.4	10933.6	10850.4
25°	10088.8	10079.6	10033.4	9996.4	9894.1	9791.8	9773.3	9708.6
27.5°	9142.4	9077.6	8966.1	8845.4	8687.6	8548.4	8539.1	8492.9
30°	8102.8	7963.6	7759.6	7564.3	7323.4	7109.6	7109.6	7035.6
32.5°	7007.9	6691.8	6413.3	6172.3	5856.8	5736.1	5615.3	5550.6
35°	5699.1	5420.6	5086.0	4687.3	4538.8	4241.8	4260.3	4111.8
37.5°	4464.3	4121.1	3805.6	3480.8	3220.8	3081.5	3007.0	2933.0
40°	3313.3	2979.3	2636.0	2422.2	2190.5	2069.8	2023.5	2005.1
42.5°	2264.5	1986.0	1763.5	1587.3	1466.5	1336.5	1299.5	1281.0
45°	1475.8	1318.0	1114.0	974.8	891.0	817.0	817.0	788.7
47.5°	881.8	779.5	677.8	584.8	529.3	482.5	464.0	454.7
50°	491.7	436.3	380.8	343.2	306.2	278.5	269.3	269.3
52.5°	269.3	241.5	223.0	194.7	176.2	176.2	176.2	167.0
55°	139.3	139.3	139.3	139.3	130.0	130.0	130.0	120.8
57.5°	93.0	93.0	102.3	102.3	102.3	93.0	93.0	93.0
60°	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5
62.5°	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5
65°	37.0	46.2	46.2	46.2	46.2	37.0	37.0	37.0
67.5°	27.7	37.0	37.0	37.0	27.7	27.7	27.7	27.7
70°	27.7	27.7	27.7	27.7	27.7	18.5	18.5	18.5
72.5°	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5
75°	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2
77.5°	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2
80°	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2
82.5°	9.2	9.2	9.2	9.2	9.2	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)