

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: P840562

Luminaire Tested: **LD6C120D010 EU61209730 6LBSQLI**

Issue Date: 2/15/2022

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: P840562
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P209355)
Test Lab: INNOVATION CENTER
Issue Date: 2/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD6C120D010 EU61209730 6LBSQLI
Description: 6 INCH 12000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 97CRI LEDS
AND 6LBSQ TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

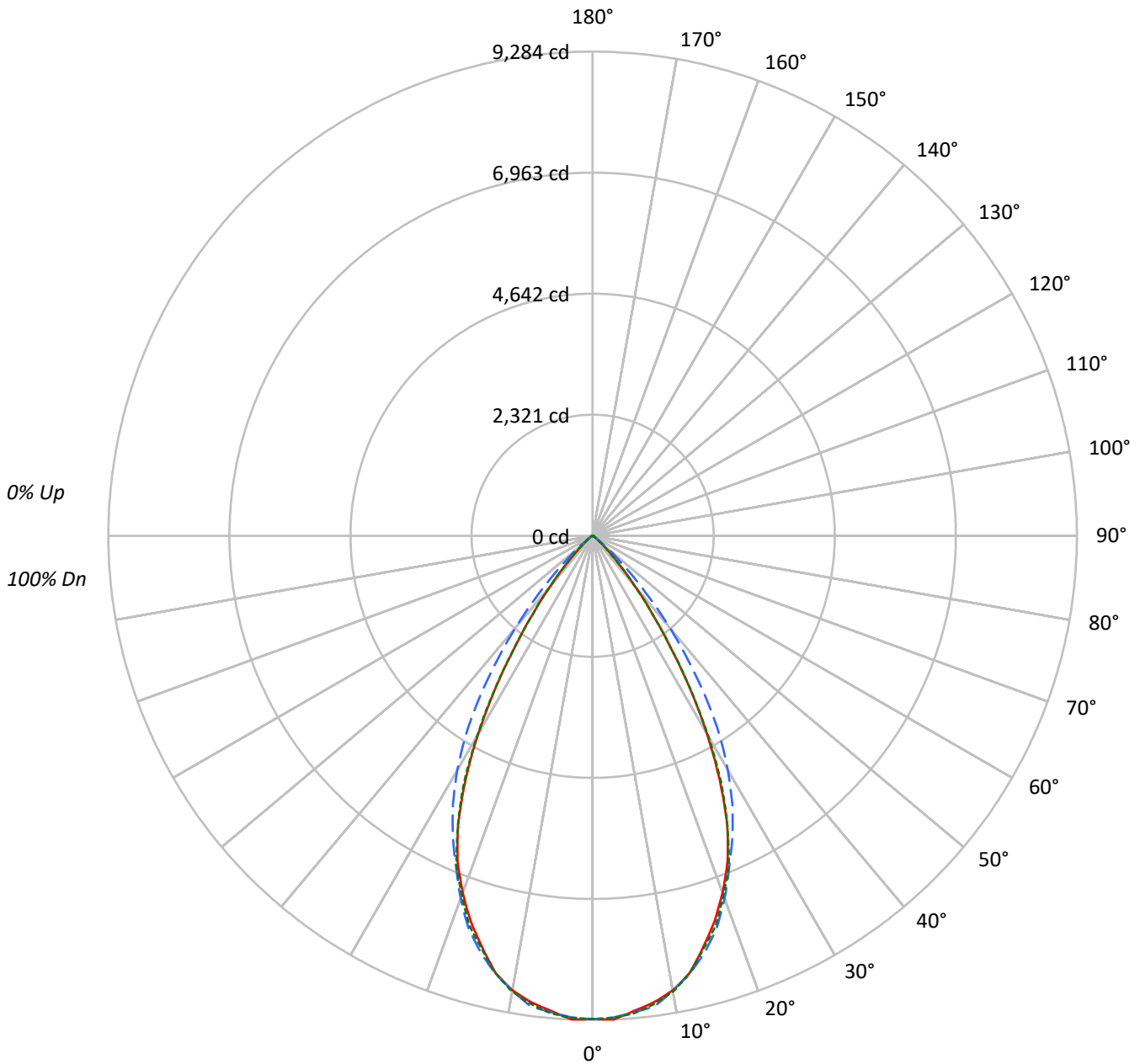
Lumens per Lamp: N/A
Luminaire Lumens: 8708.0 lumens
Efficiency: N/A
Efficacy: 61.2 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.92 / 0.95
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 142.3
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°	398984	398984	398984
5°	395209	396212	397223
10°	387008	387008	388036
15°	364383	369068	365680
20°	333626	338973	336026
25°	289881	301249	290152
30°	218021	257780	220050
35°	135340	198571	135960
40°	71212	129306	70892
45°	29513	64708	30226
50°	11333	24254	11333
55°	6133	7446	5705
60°	4013	3522	4013
65°	2384	2384	2384
70°	1473	2203	1473
75°	948	948	948
80°	1413	1413	1413
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	867.5	10.0
10°-20°	2307.7	26.5
20°-30°	2832.2	32.5
30°-40°	1955.2	22.5
40°-50°	611.3	7.0
50°-60°	95.4	1.1
60°-70°	27.6	0.3
70°-80°	9.0	0.1
80°-90°	2.0	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°	6007.5	69.0
0°-40°	7962.7	91.4
0°-60°	8669.4	99.6
0°-90°	8708.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8708.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9267	9267	9267	9267	9267	
5°	9144	9179	9167	9170	9191	864
15°	8175	8291	8280	8268	8204	2286
25°	6102	6260	6341	6300	6108	2734
35°	2575	3045	3778	3074	2587	1645
45°	485	663	1063	657	496	434
55°	82	88	99	88	76	79
65°	23	29	23	29	23	26
75°	6	6	6	6	6	8
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°	9266.7	9266.7	9266.7	9266.7	9266.7	9266.7	9266.7	9266.7	9266.7	9266.7	9266.7
2.5°	9284.2	9155.6	9237.3	9219.9	9266.7	9295.9	9266.7	9319.1	9284.2	9243.3	9255.0
5°	9144.1	9161.6	9155.6	9167.3	9179.0	9179.0	9237.3	9243.3	9255.0	9167.3	9190.7
7.5°	9021.5	9021.5	9050.7	9038.9	9079.8	9068.1	9073.9	9120.7	9126.4	9103.2	9085.6
10°	8852.0	8828.6	8799.5	8799.5	8852.0	8858.0	8904.6	8910.4	8945.5	8852.0	8863.7
12.5°	8589.3	8577.6	8530.8	8554.2	8595.1	8571.7	8647.7	8653.4	8641.9	8601.1	8624.3
15°	8174.7	8221.5	8209.8	8203.8	8297.3	8285.6	8279.8	8297.3	8303.2	8279.8	8262.4
17.5°	7760.2	7801.1	7806.8	7818.5	7836.0	7853.6	7876.8	7941.1	7917.7	7900.3	7958.6
20°	7281.4	7263.8	7310.6	7357.2	7374.7	7374.7	7409.8	7456.4	7421.5	7398.1	7404.1
22.5°	6761.6	6790.8	6767.6	6814.2	6837.6	6866.8	6901.9	6942.8	6913.6	6849.3	6925.1
25°	6101.9	6119.3	6195.3	6189.4	6224.5	6294.5	6347.1	6347.1	6347.1	6341.2	6341.2
27.5°	5272.7	5261.0	5354.5	5418.8	5506.3	5617.2	5687.2	5798.1	5815.8	5798.1	5757.2
30°	4385.3	4373.5	4490.2	4571.9	4729.7	4782.3	4974.9	5080.1	5191.0	5185.0	5155.9
32.5°	3462.6	3485.8	3579.3	3696.2	3824.5	3988.0	4169.2	4402.7	4501.9	4525.3	4472.7
35°	2574.9	2610.1	2697.6	2797.0	2954.5	3135.7	3386.6	3608.5	3777.9	3777.9	3737.0
37.5°	1856.9	1868.4	1950.2	2014.4	2177.9	2341.4	2557.5	2861.1	2966.2	3007.1	2966.2
40°	1267.0	1267.0	1313.9	1383.9	1518.2	1658.3	1856.9	2084.5	2236.3	2300.6	2230.5
42.5°	805.7	817.4	852.6	899.2	998.4	1121.0	1273.0	1442.2	1553.1	1600.0	1535.7
45°	484.7	496.4	525.6	560.5	624.8	700.8	805.7	928.4	1021.8	1062.7	1033.5
47.5°	291.8	303.6	315.3	338.7	385.3	437.9	490.5	560.5	619.0	624.8	613.1
50°	169.2	169.2	180.9	198.6	221.8	251.0	280.4	321.2	338.7	362.1	338.7
52.5°	110.9	110.9	110.9	116.9	128.4	140.1	151.8	175.2	186.9	186.9	180.9
55°	81.7	81.7	81.7	81.7	87.5	87.5	87.5	93.5	99.2	99.2	99.2
57.5°	58.3	58.3	58.3	64.3	64.3	64.3	58.3	58.3	58.3	58.3	58.3
60°	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	40.9	40.9	40.9
62.5°	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1
65°	23.4	23.4	23.4	29.2	29.2	29.2	29.2	23.4	23.4	23.4	23.4
67.5°	17.5	17.5	17.5	23.4	23.4	23.4	23.4	23.4	17.5	17.5	17.5
70°	11.7	11.7	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5
72.5°	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7
75°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
77.5°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
80°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
82.5°	0.0	0.0	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
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°	9266.7	9266.7	9266.7	9266.7	9266.7	9266.7	9266.7	9266.7
2.5°	9289.9	9260.8	9260.8	9260.8	9249.0	9260.8	9278.2	9249.0
5°	9190.7	9202.4	9149.9	9190.7	9208.2	9179.0	9249.0	9190.7
7.5°	9103.2	9085.6	9003.8	9062.4	9097.3	9109.0	9103.2	9056.4
10°	8928.0	8887.2	8852.0	8852.0	8840.3	8834.6	8898.9	8875.5
12.5°	8612.5	8641.9	8589.3	8618.5	8595.1	8601.1	8606.8	8595.1
15°	8344.1	8315.0	8244.7	8291.5	8262.4	8233.2	8291.5	8203.8
17.5°	7923.7	7917.7	7876.8	7847.7	7859.4	7853.6	7882.8	7841.9
20°	7427.3	7439.0	7415.5	7404.1	7386.4	7345.5	7380.6	7333.8
22.5°	6890.2	6901.9	6925.1	6878.5	6884.2	6825.9	6878.5	6825.9
25°	6347.1	6341.2	6312.0	6288.8	6224.5	6160.2	6148.5	6107.6
27.5°	5751.5	5710.6	5640.6	5564.6	5465.4	5377.9	5371.9	5342.8
30°	5097.5	5009.8	4881.5	4758.9	4607.1	4472.7	4472.7	4426.1
32.5°	4408.5	4210.1	4034.9	3883.1	3684.5	3608.5	3532.7	3491.8
35°	3585.3	3410.1	3199.7	2948.8	2855.3	2668.4	2680.1	2586.7
37.5°	2808.7	2592.6	2394.0	2189.6	2026.2	1938.7	1891.8	1845.2
40°	2084.5	1874.4	1658.3	1524.0	1377.9	1302.2	1273.0	1261.3
42.5°	1424.8	1249.6	1109.5	998.4	922.6	840.9	817.4	805.7
45°	928.4	829.2	700.8	613.1	560.5	513.9	513.9	496.4
47.5°	554.8	490.5	426.2	367.8	332.7	303.6	291.8	286.1
50°	309.5	274.4	239.5	216.1	192.7	175.2	169.2	169.2
52.5°	169.2	151.8	140.1	122.6	110.9	110.9	110.9	105.2
55°	87.5	87.5	87.5	87.5	81.7	81.7	81.7	76.0
57.5°	58.3	58.3	64.3	64.3	64.3	58.3	58.3	58.3
60°	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6
62.5°	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1
65°	23.4	29.2	29.2	29.2	29.2	23.4	23.4	23.4
67.5°	17.5	23.4	23.4	23.4	17.5	17.5	17.5	17.5
70°	17.5	17.5	17.5	17.5	17.5	11.7	11.7	11.7
72.5°	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7
75°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
77.5°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
80°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
82.5°	5.7	5.7	5.7	5.7	5.7	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)