

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: P840576

Luminaire Tested: **LD6C130D010 EU61309050 6LBCSSQMW**

Issue Date: 5/25/2022

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: P840576  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P209457)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/25/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD6C130D010 EU61309050 6LBCSSQMW  
Description: 6 INCH 13000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 6LBCSSQ TRIM WITH MW FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

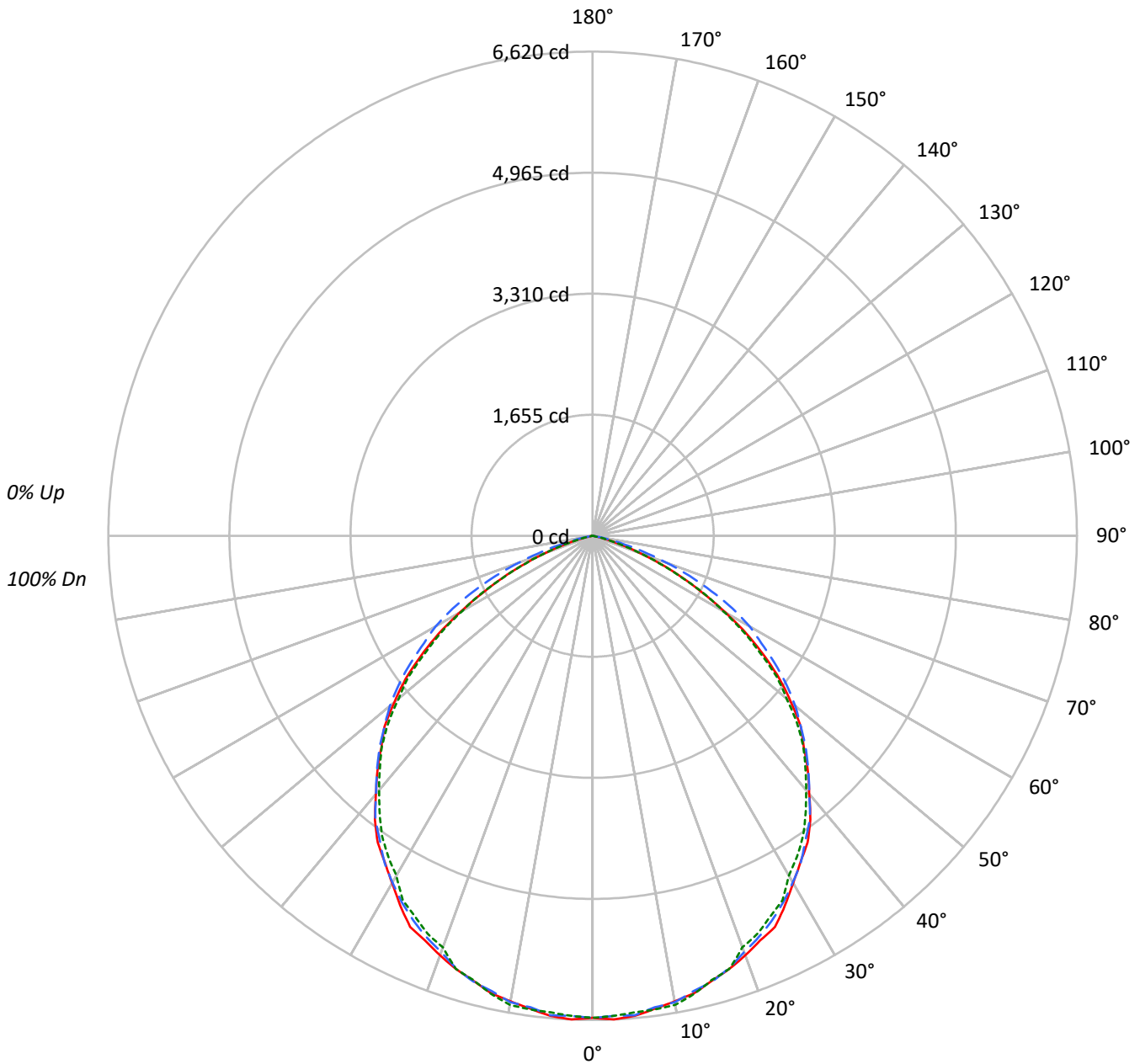
Lumens per Lamp: N/A  
Luminaire Lumens: 15911.0 lumens  
Efficiency: N/A  
Efficacy: 110.3 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 144.3  
Input Voltage (V):  
Input Current (A<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				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				100
1	111	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87				87
2	102	94	88	83	99	93	87	82	89	84	80	86	82	79	83	80	77	75				75
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64				64
4	86	75	67	60	84	73	66	60	71	64	59	69	63	58	67	62	58	56				56
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51	49				49
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43				43
7	68	55	47	41	66	54	46	41	53	46	40	51	45	40	50	44	40	38				38
8	63	50	42	37	62	50	42	36	48	41	36	47	41	36	46	40	36	34				34
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32	31				31
10	55	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28				28

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	283741	283741	283741
5°	284825	284414	282729
10°	282605	283025	284730
15°	280757	281198	280329
20°	279683	277456	274341
25°	280289	275681	272902
30°	272545	272068	266748
35°	269240	266691	263616
40°	258954	258954	255132
45°	248589	250939	247986
50°	236992	242210	231794
55°	215250	228386	210138
60°	179955	213427	177458
65°	137658	182199	136649
70°	85678	134598	86874
75°	32356	72780	30709
80°	2380	12025	2380
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	623.3	3.9
10°-20°	1777.3	11.2
20°-30°	2674.5	16.8
30°-40°	3163.9	19.9
40°-50°	3157.4	19.8
50°-60°	2618.2	16.5
60°-70°	1529.7	9.6
70°-80°	364.3	2.3
80°-90°	2.6	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°	5075.1	31.9
0°-40°	8238.9	51.8
0°-60°	14014.5	88.1
0°-90°	15911.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15911.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6590	6590	6590	6590	6590	
5°	6590	6556	6581	6561	6542	624
15°	6299	6294	6308	6279	6289	1780
25°	5900	5832	5803	5783	5744	2697
35°	5122	5074	5074	5045	5015	3185
45°	4083	4087	4121	4078	4073	3158
55°	2868	2970	3042	2960	2799	2546
65°	1351	1521	1788	1516	1341	1343
75°	194	282	438	277	185	263
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°	6590.1	6590.1	6590.1	6590.1	6590.1	6590.1	6590.1	6590.1	6590.1	6590.1	6590.1
2.5°	6619.6	6580.6	6609.6	6551.5	6590.1	6551.5	6561.1	6541.6	6580.6	6570.7	6561.1
5°	6590.1	6600.1	6580.6	6600.1	6570.7	6541.6	6570.7	6551.5	6493.1	6580.6	6561.1
7.5°	6522.1	6532.0	6512.6	6541.6	6522.1	6483.1	6561.1	6502.6	6493.1	6502.6	6541.6
10°	6464.0	6483.1	6473.6	6464.0	6473.6	6473.6	6454.1	6425.1	6454.1	6473.6	6464.0
12.5°	6405.6	6434.6	6415.1	6396.0	6376.5	6386.1	6405.6	6357.0	6357.0	6376.5	6434.6
15°	6298.6	6318.1	6327.6	6289.0	6289.0	6298.6	6337.5	6259.6	6298.6	6308.5	6318.1
17.5°	6211.1	6221.0	6221.0	6191.6	6211.1	6182.0	6211.1	6172.1	6211.1	6201.5	6221.0
20°	6104.1	6123.6	6104.1	6104.1	6085.0	6094.5	6094.5	6094.5	6065.5	6055.5	6075.0
22.5°	5987.5	5987.5	5968.0	5987.5	5968.0	5958.5	6007.0	5929.4	6007.0	5939.0	5997.5
25°	5900.0	5851.5	5822.4	5812.5	5851.5	5812.5	5832.0	5803.0	5822.4	5803.0	5812.5
27.5°	5696.0	5666.9	5657.0	5666.9	5666.9	5657.0	5696.0	5589.0	5657.0	5647.4	5647.4
30°	5482.0	5482.0	5501.5	5482.0	5501.5	5472.4	5511.4	5423.9	5482.0	5472.4	5482.0
32.5°	5287.8	5297.4	5297.4	5316.9	5287.8	5297.4	5297.4	5268.4	5287.8	5297.4	5277.9
35°	5122.4	5073.9	5073.9	5073.9	5073.9	5073.9	5093.3	5064.3	5093.3	5073.9	5073.9
37.5°	4889.3	4840.8	4840.8	4830.8	4879.4	4850.3	4898.9	4859.9	4859.9	4879.4	4879.4
40°	4607.3	4626.8	4597.7	4636.3	4626.8	4587.8	4675.3	4617.2	4655.8	4607.3	4646.3
42.5°	4354.7	4364.3	4354.7	4344.8	4383.7	4374.2	4412.8	4374.2	4364.3	4364.3	4432.3
45°	4082.6	4082.6	4082.6	4111.7	4082.6	4092.2	4131.2	4111.7	4131.2	4121.2	4189.2
47.5°	3858.7	3810.2	3800.6	3858.7	3849.1	3858.7	3858.7	3868.6	3878.2	3858.7	3888.1
50°	3538.1	3518.6	3518.6	3528.5	3538.1	3557.6	3586.6	3606.1	3586.6	3616.0	3625.6
52.5°	3227.0	3207.6	3217.5	3256.1	3275.6	3266.0	3314.6	3324.1	3314.6	3334.0	3334.0
55°	2867.5	2848.0	2877.0	2925.9	2955.0	2984.0	3032.6	2993.9	3032.6	3042.5	3052.0
57.5°	2498.0	2488.4	2498.0	2546.5	2575.9	2643.9	2721.5	2721.5	2760.5	2731.4	2760.5
60°	2089.8	2089.8	2128.8	2157.9	2235.8	2284.3	2361.9	2400.9	2439.9	2478.5	2459.4
62.5°	1700.8	1710.8	1739.8	1807.8	1856.4	1924.8	2011.9	2050.9	2118.9	2157.9	2138.4
65°	1351.2	1351.2	1370.7	1428.8	1477.3	1564.8	1642.8	1730.3	1769.2	1788.4	1798.3
67.5°	1010.7	1001.2	1040.1	1079.1	1127.6	1215.2	1302.7	1351.2	1419.2	1438.7	1428.8
70°	680.6	690.1	709.6	748.6	806.7	874.7	972.1	1010.7	1049.7	1069.2	1049.7
72.5°	427.6	427.6	437.5	476.1	515.1	563.6	631.7	670.6	719.2	729.1	709.6
75°	194.5	194.5	214.0	233.1	262.5	301.5	350.0	379.1	408.1	437.5	437.5
77.5°	39.0	48.5	58.5	58.5	77.6	107.0	136.0	165.1	194.5	194.5	194.5
80°	9.6	9.6	9.6	9.6	9.6	9.6	19.5	29.0	48.5	48.5	48.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	6590.1	6590.1	6590.1	6590.1	6590.1	6590.1	6590.1	6590.1
2.5°	6590.1	6648.6	6590.1	6561.1	6600.1	6590.1	6561.1	6570.7
5°	6561.1	6580.6	6600.1	6522.1	6570.7	6580.6	6561.1	6541.6
7.5°	6532.0	6541.6	6532.0	6512.6	6512.6	6512.6	6532.0	6532.0
10°	6522.1	6493.1	6444.5	6415.1	6444.5	6444.5	6434.6	6512.6
12.5°	6396.0	6434.6	6405.6	6347.1	6405.6	6396.0	6396.0	6415.1
15°	6298.6	6298.6	6318.1	6240.5	6279.1	6269.5	6269.5	6289.0
17.5°	6201.5	6201.5	6191.6	6172.1	6162.5	6191.6	6162.5	6211.1
20°	6065.5	6085.0	6143.1	6046.0	6075.0	6046.0	6046.0	5987.5
22.5°	5900.0	5997.5	5948.6	5939.0	5929.4	5939.0	5958.5	5890.5
25°	5793.0	5793.0	5812.5	5754.4	5754.4	5773.9	5764.0	5744.5
27.5°	5647.4	5637.5	5627.9	5608.5	5657.0	5618.4	5618.4	5618.4
30°	5443.4	5472.4	5462.9	5414.0	5472.4	5452.9	5423.9	5365.4
32.5°	5268.4	5307.3	5248.9	5239.3	5229.4	5239.3	5248.9	5200.3
35°	5054.4	5064.3	5064.3	5025.3	5034.9	5025.3	5005.8	5015.4
37.5°	4859.9	4850.3	4801.8	4782.3	4791.9	4791.9	4801.8	4782.3
40°	4587.8	4617.2	4617.2	4549.2	4568.3	4549.2	4549.2	4539.3
42.5°	4364.3	4374.2	4344.8	4315.7	4315.7	4306.2	4286.7	4306.2
45°	4131.2	4121.2	4092.2	4063.1	4063.1	4053.2	4033.7	4072.7
47.5°	3868.6	3849.1	3839.6	3800.6	3800.6	3742.2	3752.1	3790.7
50°	3606.1	3586.6	3548.0	3528.5	3499.1	3470.1	3460.5	3460.5
52.5°	3295.1	3295.1	3256.1	3217.5	3207.6	3188.1	3168.6	3178.5
55°	3023.0	3023.0	2993.9	2925.9	2887.0	2838.4	2809.0	2799.4
57.5°	2711.9	2692.5	2634.0	2556.4	2517.4	2478.5	2449.4	2449.4
60°	2400.9	2352.4	2293.9	2225.9	2157.9	2089.8	2070.4	2060.8
62.5°	2060.8	2011.9	1905.3	1827.3	1778.8	1739.8	1700.8	1730.3
65°	1720.3	1652.3	1555.2	1477.3	1428.8	1370.7	1341.3	1341.3
67.5°	1360.8	1292.7	1195.7	1117.7	1069.2	1030.2	991.6	991.6
70°	1001.2	952.6	865.1	797.1	758.1	699.7	690.1	690.1
72.5°	680.6	622.1	554.1	505.5	466.6	427.6	408.1	398.6
75°	379.1	340.1	291.6	262.5	223.5	204.1	184.6	184.6
77.5°	155.5	126.5	97.1	77.6	58.5	48.5	39.0	48.5
80°	29.0	19.5	9.6	9.6	9.6	9.6	9.6	9.6
82.5°	0.0	0.0	0.0	0.0	0.0	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)