

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: P840484

Luminaire Tested: **LD6C05D010 EU6059730 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: P840484
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: LD6C05D010 EU6059730 6LBSQLI
Description: 6 INCH 500 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

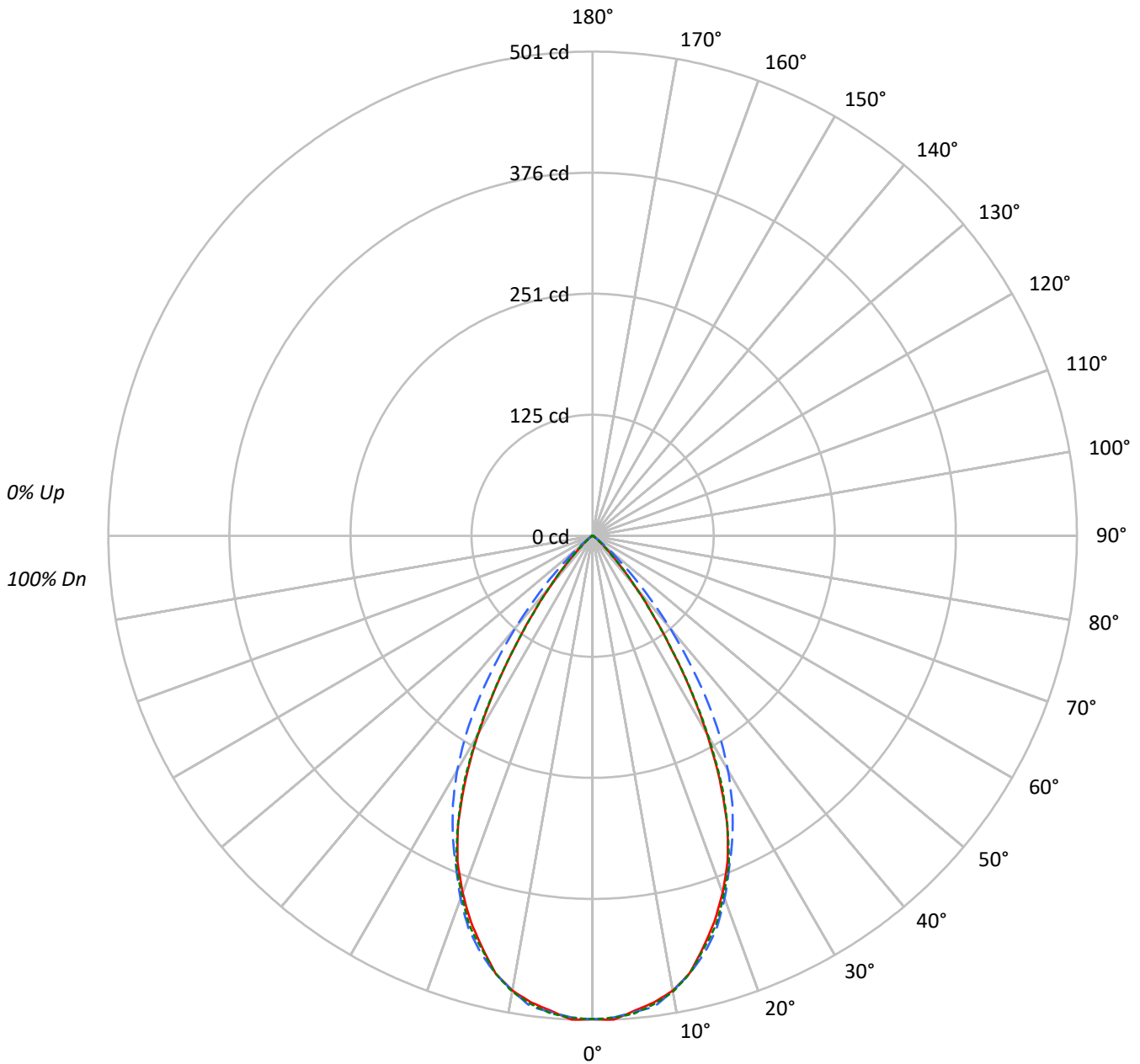
Lumens per Lamp: N/A
Luminaire Lumens: 470.0 lumens
Efficiency: N/A
Efficacy: 65.3 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.92 / 0.95
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
Input Voltage (V):
Input Current (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	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°	21536	21536	21536
5°	21329	21385	21442
10°	20889	20889	20942
15°	19666	19920	19738
20°	18007	18295	18135
25°	15644	16262	15658
30°	11768	13916	11877
35°	7306	10717	7338
40°	3844	6981	3828
45°	1595	3495	1632
50°	610	1306	610
55°	330	405	308
60°	215	189	215
65°	132	132	132
70°	76	113	76
75°	50	50	50
80°	74	74	74
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.8	10.0
10°-20°	124.6	26.5
20°-30°	152.9	32.5
30°-40°	105.5	22.5
40°-50°	33.0	7.0
50°-60°	5.1	1.1
60°-70°	1.5	0.3
70°-80°	0.5	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°	324.2	69.0
0°-40°	429.8	91.4
0°-60°	467.9	99.6
0°-90°	470.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	470.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	500	500	500	500	500	
5°	494	495	495	495	496	47
15°	441	448	447	446	443	123
25°	329	338	342	340	330	148
35°	139	164	204	166	140	89
45°	26	36	57	35	27	23
55°	4	5	5	5	4	4
65°	1	2	1	2	1	1
75°	0	0	0	0	0	0
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°	500.2	500.2	500.2	500.2	500.2	500.2	500.2	500.2	500.2	500.2	500.2
2.5°	501.1	494.2	498.6	497.6	500.2	501.7	500.2	503.0	501.1	498.9	499.5
5°	493.5	494.5	494.2	494.8	495.4	495.4	498.6	498.9	499.5	494.8	496.1
7.5°	486.9	486.9	488.5	487.9	490.1	489.4	489.7	492.3	492.6	491.3	490.4
10°	477.8	476.5	474.9	474.9	477.8	478.1	480.6	480.9	482.8	477.8	478.4
12.5°	463.6	463.0	460.4	461.7	463.9	462.6	466.7	467.1	466.4	464.2	465.5
15°	441.2	443.7	443.1	442.8	447.8	447.2	446.9	447.8	448.2	446.9	445.9
17.5°	418.8	421.0	421.4	422.0	422.9	423.9	425.1	428.6	427.3	426.4	429.6
20°	393.0	392.0	394.6	397.1	398.0	398.0	399.9	402.4	400.6	399.3	399.6
22.5°	364.9	366.5	365.3	367.8	369.0	370.6	372.5	374.7	373.1	369.7	373.8
25°	329.3	330.3	334.4	334.1	336.0	339.7	342.6	342.6	342.6	342.3	342.3
27.5°	284.6	284.0	289.0	292.5	297.2	303.2	307.0	312.9	313.9	312.9	310.7
30°	236.7	236.1	242.4	246.8	255.3	258.1	268.5	274.2	280.2	279.9	278.3
32.5°	186.9	188.1	193.2	199.5	206.4	215.2	225.0	237.6	243.0	244.2	241.4
35°	139.0	140.9	145.6	151.0	159.5	169.2	182.8	194.8	203.9	203.9	201.7
37.5°	100.2	100.8	105.3	108.7	117.6	126.4	138.0	154.4	160.1	162.3	160.1
40°	68.4	68.4	70.9	74.7	81.9	89.5	100.2	112.5	120.7	124.2	120.4
42.5°	43.5	44.1	46.0	48.5	53.9	60.5	68.7	77.8	83.8	86.4	82.9
45°	26.2	26.8	28.4	30.3	33.7	37.8	43.5	50.1	55.2	57.4	55.8
47.5°	15.8	16.4	17.0	18.3	20.8	23.6	26.5	30.3	33.4	33.7	33.1
50°	9.1	9.1	9.8	10.7	12.0	13.5	15.1	17.3	18.3	19.5	18.3
52.5°	6.0	6.0	6.0	6.3	6.9	7.6	8.2	9.5	10.1	10.1	9.8
55°	4.4	4.4	4.4	4.4	4.7	4.7	4.7	5.0	5.4	5.4	5.4
57.5°	3.1	3.1	3.1	3.5	3.5	3.5	3.1	3.1	3.1	3.1	3.1
60°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.2	2.2	2.2
62.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
65°	1.3	1.3	1.3	1.6	1.6	1.6	1.6	1.3	1.3	1.3	1.3
67.5°	0.9	0.9	0.9	1.3	1.3	1.3	1.3	1.3	0.9	0.9	0.9
70°	0.6	0.6	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
72.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
75°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
77.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
80°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
82.5°	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
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°	500.2	500.2	500.2	500.2	500.2	500.2	500.2	500.2
2.5°	501.4	499.8	499.8	499.8	499.2	499.8	500.8	499.2
5°	496.1	496.7	493.8	496.1	497.0	495.4	499.2	496.1
7.5°	491.3	490.4	486.0	489.1	491.0	491.6	491.3	488.8
10°	481.9	479.7	477.8	477.8	477.1	476.8	480.3	479.0
12.5°	464.8	466.4	463.6	465.2	463.9	464.2	464.5	463.9
15°	450.4	448.8	445.0	447.5	445.9	444.4	447.5	442.8
17.5°	427.7	427.3	425.1	423.6	424.2	423.9	425.5	423.3
20°	400.9	401.5	400.2	399.6	398.7	396.5	398.4	395.8
22.5°	371.9	372.5	373.8	371.3	371.6	368.4	371.3	368.4
25°	342.6	342.3	340.7	339.4	336.0	332.5	331.9	329.6
27.5°	310.4	308.2	304.4	300.3	295.0	290.3	289.9	288.4
30°	275.1	270.4	263.5	256.9	248.7	241.4	241.4	238.9
32.5°	237.9	227.2	217.8	209.6	198.9	194.8	190.7	188.5
35°	193.5	184.1	172.7	159.2	154.1	144.0	144.7	139.6
37.5°	151.6	139.9	129.2	118.2	109.4	104.6	102.1	99.6
40°	112.5	101.2	89.5	82.3	74.4	70.3	68.7	68.1
42.5°	76.9	67.4	59.9	53.9	49.8	45.4	44.1	43.5
45°	50.1	44.8	37.8	33.1	30.3	27.7	27.7	26.8
47.5°	29.9	26.5	23.0	19.9	18.0	16.4	15.8	15.4
50°	16.7	14.8	12.9	11.7	10.4	9.5	9.1	9.1
52.5°	9.1	8.2	7.6	6.6	6.0	6.0	6.0	5.7
55°	4.7	4.7	4.7	4.7	4.4	4.4	4.4	4.1
57.5°	3.1	3.1	3.5	3.5	3.5	3.1	3.1	3.1
60°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
62.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
65°	1.3	1.6	1.6	1.6	1.6	1.3	1.3	1.3
67.5°	0.9	1.3	1.3	1.3	0.9	0.9	0.9	0.9
70°	0.9	0.9	0.9	0.9	0.9	0.6	0.6	0.6
72.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
75°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
77.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
80°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
82.5°	0.3	0.3	0.3	0.3	0.3	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)