

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: P840470

Luminaire Tested: **LD6C05D010 EU6059027 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: P840470
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 EU6059027 6LBSQLI
Description: 6 INCH 500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS AND 6LBSQ TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

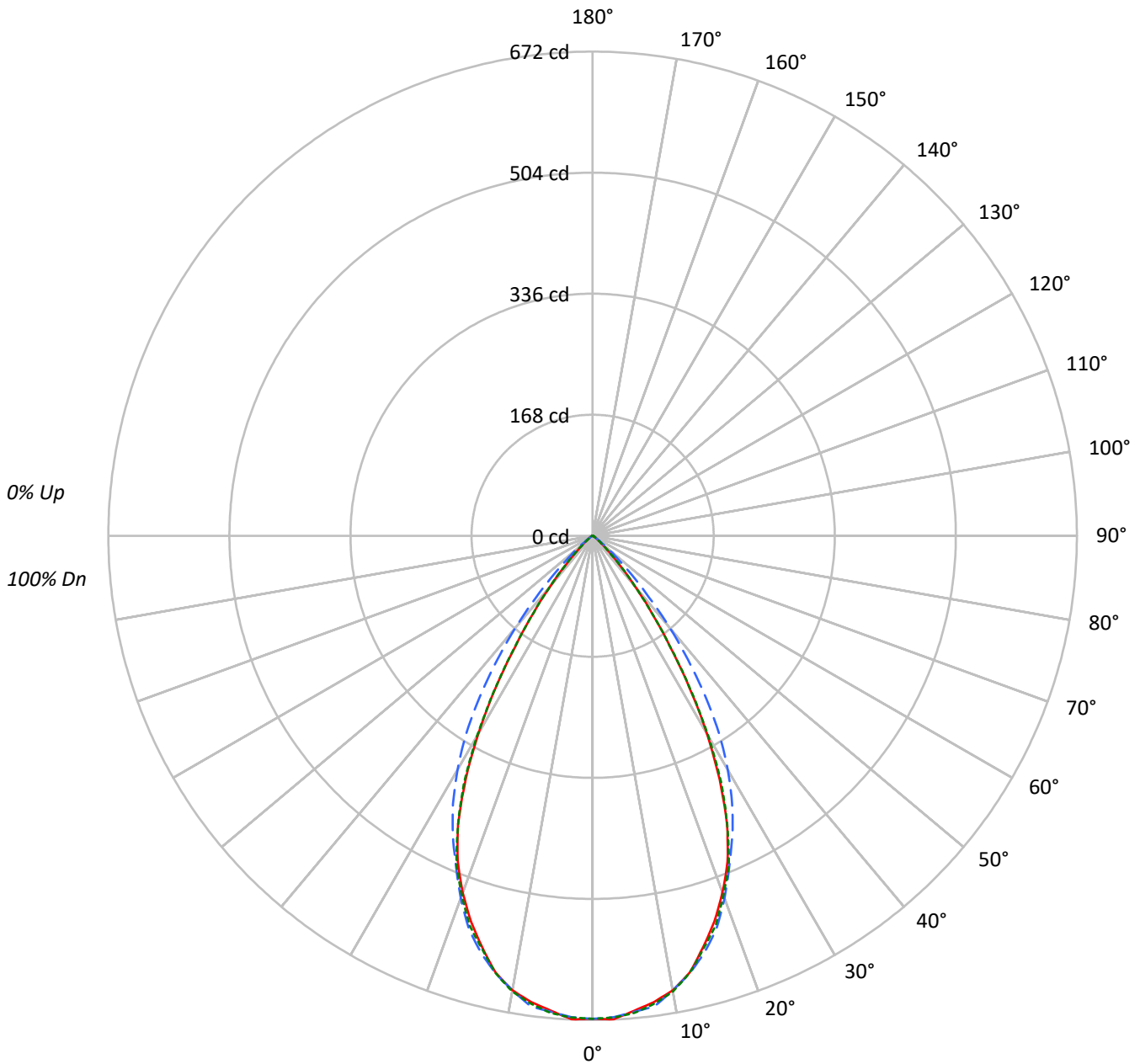
Lumens per Lamp: N/A
Luminaire Lumens: 630.0 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.92 / 0.95
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

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°	28865	28865	28865
5°	28594	28664	28737
10°	27998	27998	28073
15°	26361	26700	26455
20°	24137	24522	24311
25°	20974	21796	20993
30°	15770	18649	15919
35°	9792	14365	9834
40°	5154	9353	5132
45°	2137	4682	2186
50°	824	1755	824
55°	443	540	413
60°	293	250	293
65°	173	173	173
70°	101	164	101
75°	67	67	67
80°	99	99	99
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.8	10.0
10°-20°	167.0	26.5
20°-30°	204.9	32.5
30°-40°	141.5	22.5
40°-50°	44.2	7.0
50°-60°	6.9	1.1
60°-70°	2.0	0.3
70°-80°	0.6	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°	434.6	69.0
0°-40°	576.1	91.4
0°-60°	627.2	99.6
0°-90°	630.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	630.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	670	670	670	670	670	
5°	662	664	663	663	665	63
15°	591	600	599	598	594	165
25°	442	453	459	456	442	198
35°	186	220	273	222	187	119
45°	35	48	77	48	36	31
55°	6	6	7	6	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°	670.4	670.4	670.4	670.4	670.4	670.4	670.4	670.4	670.4	670.4	670.4
2.5°	671.7	662.4	668.3	667.0	670.4	672.5	670.4	674.2	671.7	668.7	669.6
5°	661.6	662.8	662.4	663.2	664.1	664.1	668.3	668.7	669.6	663.2	664.9
7.5°	652.7	652.7	654.8	653.9	656.9	656.1	656.5	659.8	660.3	658.6	657.3
10°	640.4	638.7	636.6	636.6	640.4	640.8	644.2	644.6	647.2	640.4	641.3
12.5°	621.4	620.6	617.2	618.9	621.8	620.1	625.6	626.0	625.2	622.3	623.9
15°	591.4	594.8	593.9	593.5	600.3	599.4	599.0	600.3	600.7	599.0	597.7
17.5°	561.4	564.4	564.8	565.6	566.9	568.2	569.9	574.5	572.8	571.6	575.8
20°	526.8	525.5	528.9	532.3	533.5	533.5	536.1	539.4	536.9	535.2	535.7
22.5°	489.2	491.3	489.6	493.0	494.7	496.8	499.3	502.3	500.2	495.5	501.0
25°	441.5	442.7	448.2	447.8	450.3	455.4	459.2	459.2	459.2	458.8	458.8
27.5°	381.5	380.6	387.4	392.0	398.4	406.4	411.4	419.5	420.8	419.5	416.5
30°	317.2	316.4	324.8	330.8	342.2	346.0	359.9	367.5	375.5	375.1	373.0
32.5°	250.5	252.2	259.0	267.4	276.7	288.5	301.6	318.5	325.7	327.4	323.6
35°	186.3	188.8	195.2	202.3	213.8	226.9	245.0	261.1	273.3	273.3	270.4
37.5°	134.3	135.2	141.1	145.7	157.6	169.4	185.0	207.0	214.6	217.5	214.6
40°	91.7	91.7	95.0	100.1	109.8	120.0	134.3	150.8	161.8	166.4	161.4
42.5°	58.3	59.1	61.7	65.1	72.2	81.1	92.1	104.4	112.4	115.7	111.1
45°	35.1	35.9	38.0	40.6	45.2	50.7	58.3	67.2	73.9	76.9	74.8
47.5°	21.1	22.0	22.8	24.5	27.9	31.7	35.5	40.6	44.8	45.2	44.4
50°	12.3	12.3	13.1	14.4	16.0	18.2	20.3	23.2	24.5	26.2	24.5
52.5°	8.0	8.0	8.0	8.4	9.3	10.2	11.0	12.7	13.5	13.5	13.1
55°	5.9	5.9	5.9	5.9	6.3	6.3	6.3	6.8	7.2	7.2	7.2
57.5°	4.2	4.2	4.2	4.7	4.7	4.7	4.2	4.2	4.2	4.2	4.2
60°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	2.9	2.9	2.9
62.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
65°	1.7	1.7	1.7	2.1	2.1	2.1	2.1	1.7	1.7	1.7	1.7
67.5°	1.3	1.3	1.3	1.7	1.7	1.7	1.7	1.7	1.3	1.3	1.3
70°	0.8	0.8	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
72.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
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°	670.4	670.4	670.4	670.4	670.4	670.4	670.4	670.4
2.5°	672.1	670.0	670.0	670.0	669.2	670.0	671.3	669.2
5°	664.9	665.8	662.0	664.9	666.2	664.1	669.2	664.9
7.5°	658.6	657.3	651.4	655.6	658.2	659.0	658.6	655.2
10°	645.9	643.0	640.4	640.4	639.6	639.1	643.8	642.1
12.5°	623.1	625.2	621.4	623.5	621.8	622.3	622.7	621.8
15°	603.7	601.6	596.5	599.9	597.7	595.6	599.9	593.5
17.5°	573.2	572.8	569.9	567.8	568.6	568.2	570.3	567.3
20°	537.3	538.2	536.5	535.7	534.4	531.4	534.0	530.6
22.5°	498.5	499.3	501.0	497.6	498.0	493.8	497.6	493.8
25°	459.2	458.8	456.7	455.0	450.3	445.7	444.8	441.9
27.5°	416.1	413.2	408.1	402.6	395.4	389.1	388.6	386.5
30°	368.8	362.5	353.2	344.3	333.3	323.6	323.6	320.2
32.5°	319.0	304.6	291.9	280.9	266.6	261.1	255.6	252.6
35°	259.4	246.7	231.5	213.3	206.6	193.1	193.9	187.1
37.5°	203.2	187.6	173.2	158.4	146.6	140.3	136.9	133.5
40°	150.8	135.6	120.0	110.2	99.7	94.2	92.1	91.3
42.5°	103.1	90.4	80.3	72.2	66.7	60.8	59.1	58.3
45°	67.2	60.0	50.7	44.4	40.6	37.2	37.2	35.9
47.5°	40.1	35.5	30.8	26.6	24.1	22.0	21.1	20.7
50°	22.4	19.9	17.3	15.6	13.9	12.7	12.3	12.3
52.5°	12.3	11.0	10.2	8.9	8.0	8.0	8.0	7.6
55°	6.3	6.3	6.3	6.3	5.9	5.9	5.9	5.5
57.5°	4.2	4.2	4.7	4.7	4.7	4.2	4.2	4.2
60°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
62.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
65°	1.7	2.1	2.1	2.1	2.1	1.7	1.7	1.7
67.5°	1.3	1.7	1.7	1.7	1.3	1.3	1.3	1.3
70°	1.3	1.3	1.3	1.3	1.3	0.8	0.8	0.8
72.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
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)