

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: P563853

Luminaire Tested: **LD4C05D010 EX4C05D2W 4LBSQLI**

Issue Date: 2/9/2022



Test Information

Test Method: LM-79-08
Report Number: P563853
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P209151)
Test Lab: INNOVATION CENTER
Issue Date: 2/9/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C05D010 EX4C05D2W 4LBSQLI
Description: 4 INCH 500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS AND 4LBSQ TRIM WITH LI FINISH, DIM TO WARM
Light Source: -
Ballast/Driver: -

Summary

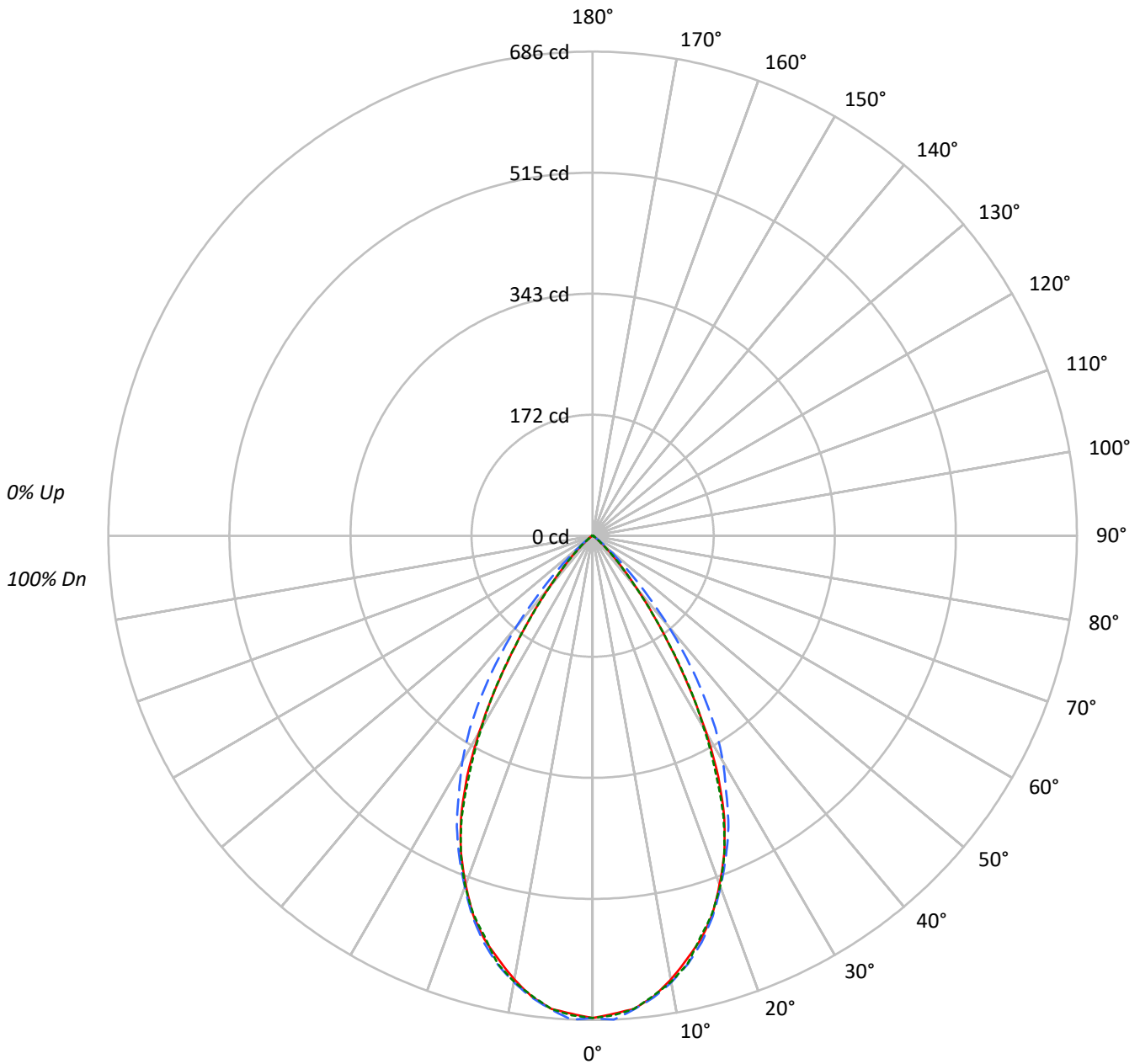
Lumens per Lamp: N/A
Luminaire Lumens: 630.6 lumens
Efficiency: N/A
Efficacy: 87.6 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.9 / 0.94
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
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									
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	105	101	97	94	98	95	92	95	92	90	92	90	88	87																			
3	102	96	91	87	100	94	90	86	92	88	84	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	77	73	90	82	77	73	81	76	72	79	75	71	77	74	71	69																			
6	87	78	72	68	86	77	72	67	76	71	67	74	70	66	73	69	66	65																			
7	83	73	67	63	81	73	67	63	71	66	62	70	65	62	69	65	62	60																			
8	79	69	63	59	77	68	62	58	67	62	58	66	61	58	65	61	58	56																			
9	75	65	59	55	74	64	59	55	63	58	55	63	58	54	62	57	54	53																			
10	71	61	55	51	70	61	55	51	60	55	51	59	54	51	58	54	51	50																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	65921	65921	65921
5°	65156	65243	65156
10°	62549	62941	62843
15°	59136	59566	58837
20°	53969	54370	54226
25°	46993	48473	46663
30°	35731	41101	35196
35°	22486	31957	22698
40°	12130	21098	11916
45°	5745	10425	5690
50°	2147	3903	2147
55°	1026	1245	959
60°	675	598	675
65°	388	388	388
70°	254	367	254
75°	149	149	149
80°	222	222	222
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.3	10.0
10°-20°	166.0	26.3
20°-30°	202.8	32.2
30°-40°	141.8	22.5
40°-50°	46.5	7.4
50°-60°	7.4	1.2
60°-70°	2.0	0.3
70°-80°	0.7	0.1
80°-90°	0.2	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°	432.1	68.5
0°-40°	573.9	91.0
0°-60°	627.8	99.6
0°-90°	630.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	630.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	683	683	683	683	683	
5°	673	673	674	669	673	63
15°	592	594	596	592	589	165
25°	441	448	455	447	438	198
35°	191	225	271	222	193	122
45°	42	52	76	51	42	35
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°	683.2	683.2	683.2	683.2	683.2	683.2	683.2	683.2	683.2	683.2	683.2
2.5°	677.9	682.6	681.4	684.4	684.4	680.9	681.8	683.2	684.9	686.2	675.7
5°	672.7	677.0	673.1	677.5	674.8	670.9	677.5	674.0	676.1	673.6	675.3
7.5°	658.8	665.8	657.9	663.1	661.4	659.2	661.8	661.0	662.3	660.1	655.4
10°	638.4	644.1	638.8	646.2	642.8	640.6	642.8	644.9	644.5	642.4	644.9
12.5°	615.0	621.5	618.9	623.2	619.3	619.3	624.6	623.2	623.6	621.9	625.0
15°	592.0	596.8	592.8	598.5	596.8	592.0	594.1	594.1	597.6	596.3	592.8
17.5°	563.3	567.2	562.9	564.2	562.5	561.6	570.6	564.6	568.1	565.5	566.0
20°	525.6	527.3	526.0	529.5	527.3	530.0	529.0	528.1	528.1	529.5	526.4
22.5°	487.3	487.3	488.7	489.6	491.3	488.7	493.9	489.6	490.0	493.0	492.1
25°	441.4	440.0	443.1	447.5	449.2	447.1	454.0	450.5	453.1	455.3	450.5
27.5°	385.4	385.4	388.5	395.8	397.1	399.7	409.2	409.2	412.7	409.7	413.2
30°	320.7	325.5	329.4	338.9	342.0	347.7	357.6	362.4	370.2	368.9	367.1
32.5°	254.3	260.8	261.2	271.3	279.5	289.0	302.5	313.8	319.4	323.4	319.0
35°	190.9	194.9	198.4	205.3	219.2	231.7	243.9	258.7	268.6	271.3	267.3
37.5°	139.8	140.6	144.1	150.5	161.0	173.1	187.9	203.9	214.4	218.3	213.9
40°	96.3	97.2	99.0	104.6	113.3	122.0	133.7	150.1	159.7	167.5	161.8
42.5°	64.7	65.5	67.2	71.6	76.4	84.6	93.8	104.2	113.3	116.8	113.7
45°	42.1	42.1	42.9	46.0	48.6	55.1	61.6	68.2	74.3	76.4	74.3
47.5°	24.7	25.1	26.0	28.2	31.2	33.9	38.7	42.9	44.7	46.5	45.6
50°	14.3	14.3	15.7	16.9	19.1	20.9	22.6	24.3	25.1	26.0	25.1
52.5°	7.8	8.2	8.6	9.2	10.0	11.7	13.0	13.0	13.4	13.9	13.4
55°	6.1	6.1	6.1	6.1	6.5	6.5	6.5	6.9	6.9	7.4	6.9
57.5°	4.4	4.4	4.4	4.8	4.8	4.8	4.4	4.4	4.4	4.4	4.4
60°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.1	3.1	3.1	3.1
62.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
65°	1.7	1.7	2.1	2.1	2.1	2.1	2.1	1.7	1.7	1.7	1.7
67.5°	1.3	1.3	1.3	1.3	1.7	1.7	1.3	1.3	1.3	1.3	1.3
70°	0.9	0.9	0.9	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
72.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
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	0.0	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0
87.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
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°	683.2	683.2	683.2	683.2	683.2	683.2	683.2	683.2
2.5°	683.2	675.7	676.5	680.5	678.4	680.5	680.1	680.1
5°	675.7	673.6	670.1	668.8	671.4	677.0	676.1	672.7
7.5°	661.8	656.2	660.1	661.8	659.7	663.1	664.8	657.5
10°	645.3	643.2	642.4	643.2	642.4	645.8	641.4	641.4
12.5°	621.9	618.5	618.5	623.6	620.6	618.1	621.5	621.0
15°	598.5	591.5	591.5	593.2	594.6	592.8	593.2	589.0
17.5°	563.7	561.6	558.5	563.3	564.6	562.9	564.2	562.0
20°	531.2	531.2	525.6	527.7	529.5	530.8	531.7	528.1
22.5°	489.6	490.4	486.5	490.8	492.1	487.8	488.7	487.8
25°	451.3	450.9	447.9	446.1	447.1	445.2	444.8	438.3
27.5°	409.2	404.9	398.4	400.2	392.7	386.7	386.7	376.7
30°	363.6	356.3	347.7	338.9	332.4	325.5	321.5	315.9
32.5°	310.3	300.4	289.5	277.8	270.4	260.0	254.3	257.4
35°	257.4	242.6	227.9	216.2	204.9	198.8	191.8	192.7
37.5°	206.2	185.3	172.3	159.7	150.1	142.3	139.4	138.4
40°	150.5	134.1	121.0	112.0	105.5	99.4	95.9	94.6
42.5°	104.2	92.5	82.0	74.7	70.3	66.4	64.7	64.2
45°	67.7	60.7	53.8	48.6	45.2	42.5	42.1	41.7
47.5°	42.5	39.1	34.7	30.8	27.8	26.0	24.7	24.7
50°	24.3	23.0	20.9	18.7	16.9	16.1	14.7	14.3
52.5°	13.0	13.0	12.1	10.4	9.2	8.2	8.2	7.8
55°	6.9	6.9	6.5	6.5	6.1	6.1	6.1	5.7
57.5°	4.4	4.4	4.8	4.8	4.4	4.4	4.4	4.4
60°	3.1	3.5	3.5	3.5	3.5	3.5	3.5	3.5
62.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
65°	1.7	2.1	2.1	2.1	2.1	1.7	1.7	1.7
67.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
70°	1.3	1.3	1.3	1.3	1.3	0.9	0.9	0.9
72.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
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°	0.0	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°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
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)