

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: P#

Luminaire Tested: **LD4C05D010 EX4C059030 4LBSQLI**

Issue Date: 2/9/2022

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: P#
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 EX4C059030 4LBSQLI
Description: 4 INCH 500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS AND 4LBSQ TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

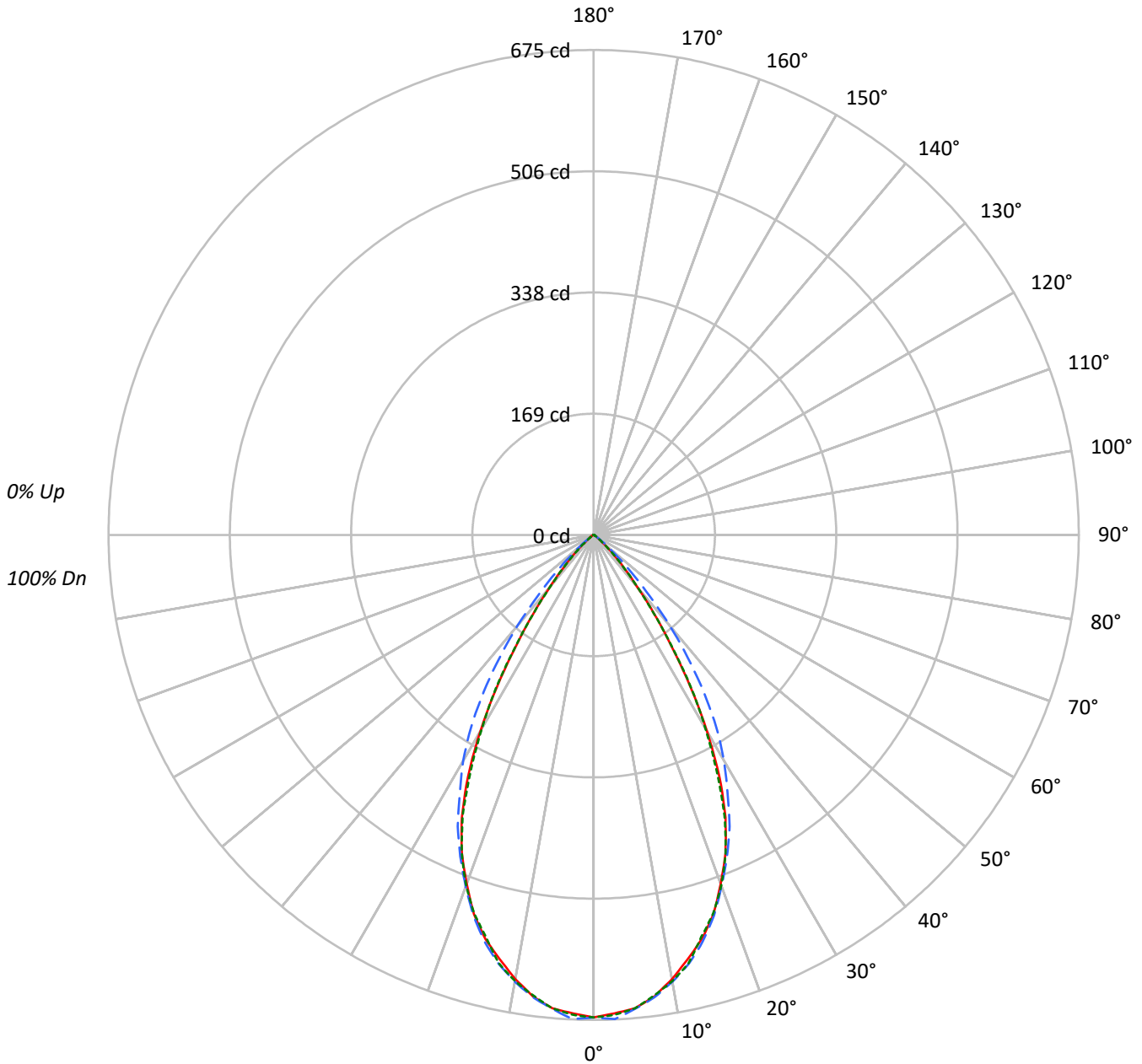
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 620.0 lumens
Efficiency: N/A
Efficacy: 86.1 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	71	67	76	71	67	74	70	66	73	69	66	64																			
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°	64802	64802	64802
5°	64052	64139	64052
10°	61491	61873	61785
15°	58138	58557	57838
20°	53055	53446	53312
25°	46195	47653	45875
30°	35129	40411	34606
35°	22109	31415	22310
40°	11928	20745	11714
45°	5649	10248	5595
50°	2117	3843	2117
55°	1009	1228	942
60°	656	579	656
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°	62.3	10.0
10°-20°	163.2	26.3
20°-30°	199.3	32.2
30°-40°	139.4	22.5
40°-50°	45.7	7.4
50°-60°	7.3	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°	424.8	68.5
0°-40°	564.2	91.0
0°-60°	617.2	99.5
0°-90°	620.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	620.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	672	672	672	672	672	
5°	661	662	662	658	661	62
15°	582	584	586	582	579	162
25°	434	441	448	439	431	195
35°	188	222	267	218	189	120
45°	41	51	75	50	41	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	



TEST NUMBER: P#

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	671.6	671.6	671.6	671.6	671.6	671.6	671.6	671.6	671.6	671.6	671.6
2.5°	666.4	671.1	669.9	672.8	672.8	669.4	670.3	671.6	673.3	674.6	664.3
5°	661.3	665.6	661.7	666.0	663.4	659.6	666.0	662.6	664.7	662.2	663.9
7.5°	647.7	654.5	646.8	651.9	650.2	648.1	650.6	649.8	651.1	648.9	644.3
10°	627.6	633.2	628.0	635.3	631.9	629.8	631.9	634.0	633.6	631.5	634.0
12.5°	604.6	611.0	608.4	612.7	608.8	608.8	614.0	612.7	613.1	611.4	614.4
15°	582.0	586.7	582.8	588.4	586.7	582.0	584.1	584.1	587.5	586.2	582.8
17.5°	553.8	557.6	553.4	554.7	553.0	552.1	561.0	555.1	558.5	555.9	556.4
20°	516.7	518.4	517.1	520.5	518.4	521.0	520.1	519.2	519.2	520.5	517.5
22.5°	479.1	479.1	480.4	481.3	483.0	480.4	485.5	481.3	481.7	484.7	483.8
25°	433.9	432.6	435.6	439.9	441.6	439.5	446.3	442.9	445.4	447.6	442.9
27.5°	378.9	378.9	381.9	389.1	390.4	392.9	402.3	402.3	405.7	402.8	406.2
30°	315.3	320.0	323.8	333.2	336.2	341.8	351.6	356.3	363.9	362.7	360.9
32.5°	250.0	256.4	256.8	266.7	274.8	284.1	297.4	308.5	314.0	317.9	313.6
35°	187.7	191.6	195.0	201.8	215.5	227.8	239.8	254.3	264.1	266.7	262.8
37.5°	137.4	138.2	141.7	148.0	158.3	170.2	184.7	200.5	210.8	214.6	210.3
40°	94.7	95.6	97.3	102.8	111.4	119.9	131.4	147.6	157.0	164.7	159.1
42.5°	63.6	64.4	66.1	70.4	75.1	83.2	92.2	102.4	111.4	114.8	111.8
45°	41.4	41.4	42.2	45.2	47.8	54.2	60.6	67.0	73.0	75.1	73.0
47.5°	24.3	24.7	25.6	27.7	30.7	33.3	38.0	42.2	43.9	45.7	44.8
50°	14.1	14.1	15.4	16.6	18.8	20.5	22.2	23.9	24.7	25.6	24.7
52.5°	7.7	8.1	8.5	9.0	9.8	11.5	12.8	12.8	13.2	13.7	13.2
55°	6.0	6.0	6.0	6.0	6.4	6.4	6.4	6.8	6.8	7.3	6.8
57.5°	4.3	4.3	4.3	4.7	4.7	4.7	4.3	4.3	4.3	4.3	4.3
60°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.0	3.0	3.0	3.0
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°	671.6	671.6	671.6	671.6	671.6	671.6	671.6	671.6
2.5°	671.6	664.3	665.1	669.0	666.9	669.0	668.6	668.6
5°	664.3	662.2	658.8	657.5	660.0	665.6	664.7	661.3
7.5°	650.6	645.1	648.9	650.6	648.5	651.9	653.6	646.4
10°	634.4	632.3	631.5	632.3	631.5	634.9	630.6	630.6
12.5°	611.4	608.0	608.0	613.1	610.1	607.6	611.0	610.5
15°	588.4	581.5	581.5	583.2	584.5	582.8	583.2	579.0
17.5°	554.2	552.1	549.1	553.8	555.1	553.4	554.7	552.5
20°	522.2	522.2	516.7	518.8	520.5	521.8	522.7	519.2
22.5°	481.3	482.1	478.3	482.5	483.8	479.6	480.4	479.6
25°	443.7	443.3	440.3	438.6	439.5	437.7	437.3	430.9
27.5°	402.3	398.1	391.7	393.4	386.1	380.2	380.2	370.3
30°	357.5	350.3	341.8	333.2	326.8	320.0	316.1	310.6
32.5°	305.1	295.3	284.6	273.1	265.8	255.6	250.0	253.0
35°	253.0	238.5	224.0	212.5	201.4	195.4	188.6	189.4
37.5°	202.7	182.2	169.4	157.0	147.6	139.9	137.0	136.1
40°	148.0	131.8	119.0	110.1	103.7	97.7	94.3	93.0
42.5°	102.4	90.9	80.6	73.4	69.1	65.3	63.6	63.1
45°	66.6	59.7	52.9	47.8	44.4	41.8	41.4	41.0
47.5°	41.8	38.4	34.1	30.3	27.3	25.6	24.3	24.3
50°	23.9	22.6	20.5	18.4	16.6	15.8	14.5	14.1
52.5°	12.8	12.8	11.9	10.2	9.0	8.1	8.1	7.7
55°	6.8	6.8	6.4	6.4	6.0	6.0	6.0	5.6
57.5°	4.3	4.3	4.7	4.7	4.3	4.3	4.3	4.3
60°	3.0	3.4	3.4	3.4	3.4	3.4	3.4	3.4
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)