

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: **LD4C20D010 EX4C209040 4LCSQWLI**

Issue Date: 2/18/2022



Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2105-247-13)
Test Lab: INNOVATION CENTER
Issue Date: 2/18/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C20D010 EX4C209040 4LCSQWLI
Description: 4 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LCSQW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

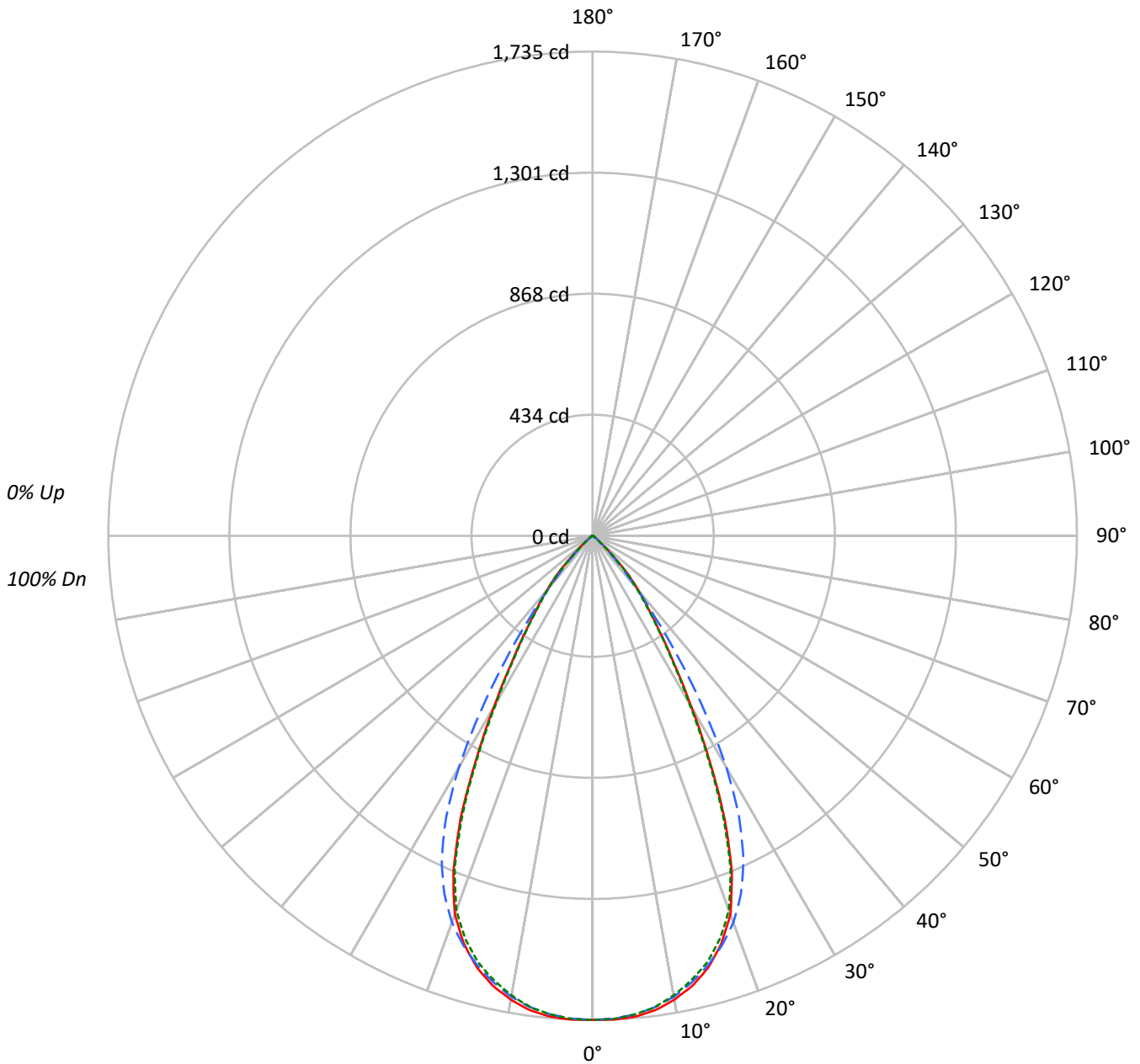
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1553.0 lumens
Efficiency: N/A
Efficacy: 71.2 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.9
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 21.8
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	114	111	108	106	111	109	106	104	105	103	101	101	100	98	97	96	95	94																			
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87																			
3	103	96	91	88	101	95	90	87	92	89	85	90	87	84	88	85	83	81																			
4	98	90	85	80	96	89	84	80	87	82	79	85	81	78	83	80	77	76																			
5	93	84	79	74	91	84	78	74	82	77	73	80	76	73	79	75	72	71																			
6	88	79	73	69	87	79	73	69	77	72	68	76	71	68	74	71	68	66																			
7	84	75	69	65	82	74	68	64	73	68	64	71	67	64	70	66	63	62																			
8	80	70	64	60	79	70	64	60	69	64	60	68	63	60	67	63	59	58																			
9	76	66	61	57	75	66	60	57	65	60	56	64	60	56	63	59	56	55																			
10	72	63	57	53	71	62	57	53	62	57	53	61	56	53	60	56	53	52																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	167379	167379	167379
5°	167554	166789	166789
10°	165356	164377	163877
15°	159988	159239	158160
20°	148169	151404	146537
25°	119133	136188	117568
30°	78637	106781	76765
35°	49142	64126	48259
40°	32081	29713	30822
45°	15447	11858	14573
50°	3888	4728	3648
55°	2153	1951	2086
60°	1467	1235	1389
65°	1005	913	1005
70°	790	677	790
75°	596	596	596
80°	445	667	667
85°	443	886	886



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.1	10.5
10°-20°	445.5	28.7
20°-30°	530.9	34.2
30°-40°	300.6	19.4
40°-50°	92.9	6.0
50°-60°	12.9	0.8
60°-70°	4.4	0.3
70°-80°	1.8	0.1
80°-90°	0.7	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°	1139.6	73.4
0°-40°	1440.2	92.7
0°-60°	1546.1	99.6
0°-90°	1553.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1553.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1735	1735	1735	1735	1735	
5°	1730	1726	1722	1721	1722	164
15°	1602	1599	1594	1588	1583	447
25°	1119	1184	1279	1186	1104	499
35°	417	455	544	456	410	272
45°	113	132	87	128	107	93
55°	13	13	12	12	12	13
65°	4	4	4	4	4	5
75°	2	2	2	2	2	2
85°	0	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1734.7	1734.7	1734.7	1734.7	1734.7
2.5°	1735.1	1732.3	1731.5	1730.7	1732.3
5°	1729.9	1726.0	1722.0	1720.8	1722.0
7.5°	1715.2	1711.2	1704.4	1702.8	1704.0
10°	1687.7	1684.1	1677.7	1674.2	1672.6
12.5°	1651.4	1645.5	1639.5	1635.5	1631.5
15°	1601.6	1598.8	1594.1	1587.7	1583.3
17.5°	1532.7	1536.7	1539.5	1526.7	1515.1
20°	1443.0	1457.8	1474.5	1448.6	1427.1
22.5°	1303.1	1345.4	1388.0	1339.0	1291.2
25°	1119.0	1184.4	1279.2	1186.4	1104.3
27.5°	904.2	987.1	1136.6	987.5	892.3
30°	705.8	791.0	958.4	779.9	689.0
32.5°	542.0	605.7	748.8	596.2	530.4
35°	417.2	455.1	544.4	456.3	409.7
37.5°	324.4	343.5	366.2	336.7	314.8
40°	254.7	255.4	235.9	251.5	244.7
42.5°	188.9	188.1	145.1	183.3	184.5
45°	113.2	131.9	86.9	128.3	106.8
47.5°	53.8	74.5	52.2	70.5	49.8
50°	25.9	35.9	31.5	33.5	24.3
52.5°	17.5	18.3	17.9	17.5	16.7
55°	12.8	12.8	11.6	12.4	12.4
57.5°	9.6	9.6	8.4	9.2	9.2
60°	7.6	7.2	6.4	7.2	7.2
62.5°	5.6	5.6	4.8	5.6	5.6
65°	4.4	4.4	4.0	4.4	4.4
67.5°	3.6	3.6	2.8	3.6	3.2
70°	2.8	2.8	2.4	2.8	2.8
72.5°	2.0	2.0	2.0	2.0	2.0
75°	1.6	1.6	1.6	1.6	1.6
77.5°	1.2	1.2	1.2	1.2	1.2
80°	0.8	0.8	1.2	1.2	1.2
82.5°	0.8	0.8	0.8	0.8	0.8
85°	0.4	0.8	0.8	0.8	0.8
87.5°	0.4	0.4	0.8	0.8	0.8
90°	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)