

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 EX4C209030 4LCSQWLI**

Issue Date: 2/18/2022

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 (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 EX4C209030 4LCSQWLI
Description: 4 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LCSQW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

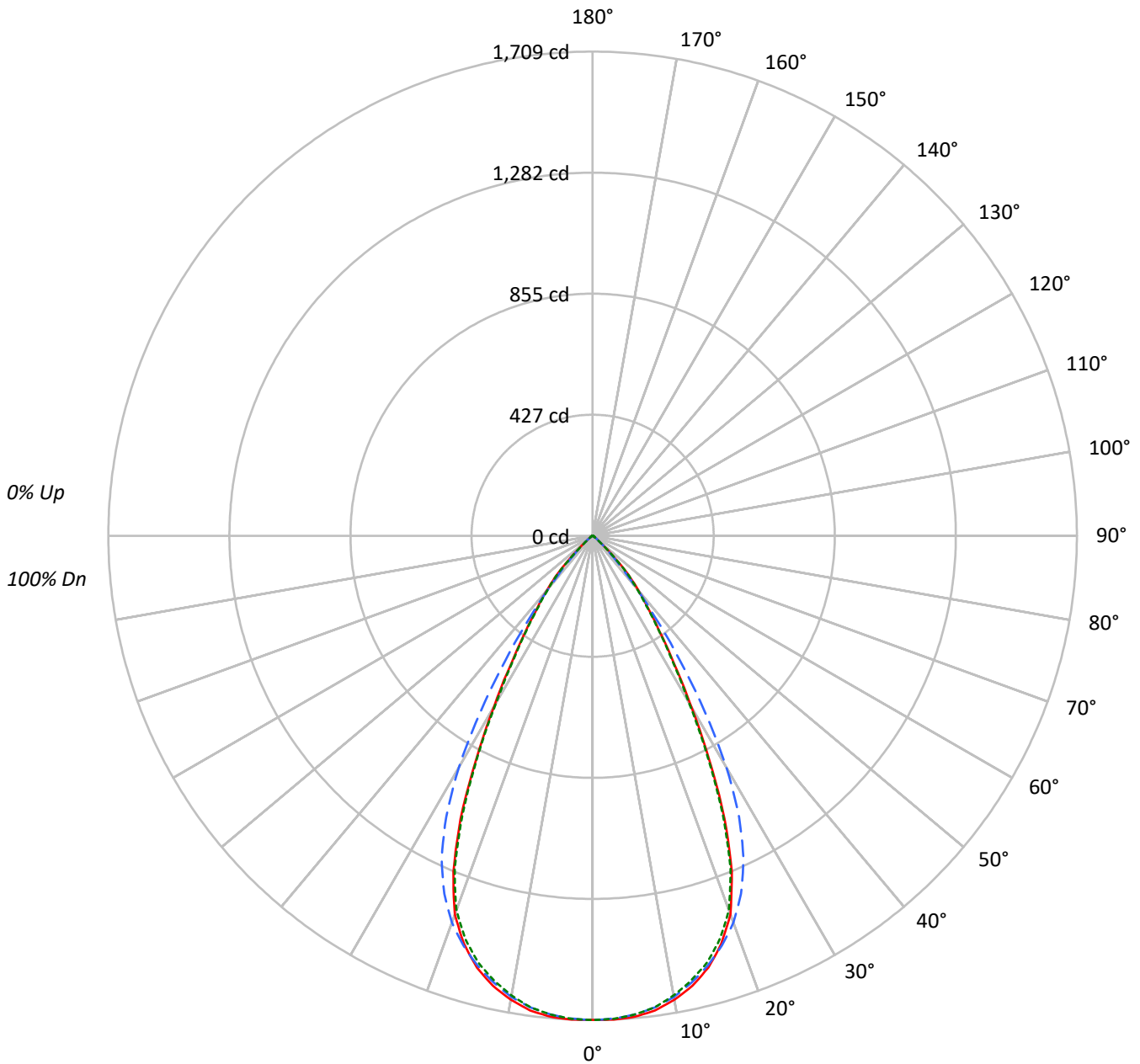
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1530.0 lumens
Efficiency: N/A
Efficacy: 70.2 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 (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

TEST NUMBER: P#
CATALOG NUMBER: LD4C20D010 EX4C209030 4LCSQWLI

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°	164900	164900	164900
5°	165074	164319	164319
10°	162907	161947	161447
15°	157621	156871	155813
20°	145972	149165	144360
25°	117376	134176	115822
30°	77467	105199	75629
35°	48424	63171	47541
40°	31603	29272	30368
45°	15215	11681	14355
50°	3828	4653	3588
55°	2120	1918	2052
60°	1447	1216	1370
65°	982	890	982
70°	762	677	762
75°	596	596	596
80°	445	667	667
85°	443	886	886



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.7	10.5
10°-20°	438.9	28.7
20°-30°	523.1	34.2
30°-40°	296.2	19.4
40°-50°	91.6	6.0
50°-60°	12.7	0.8
60°-70°	4.3	0.3
70°-80°	1.7	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°	1122.7	73.4
0°-40°	1418.9	92.7
0°-60°	1523.2	99.6
0°-90°	1530.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1530.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1709	1709	1709	1709	1709	
5°	1704	1700	1696	1695	1696	161
15°	1578	1575	1570	1564	1560	440
25°	1102	1167	1260	1169	1088	492
35°	411	448	536	450	404	268
45°	112	130	86	126	105	92
55°	13	13	11	12	12	12
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°	1709.0	1709.0	1709.0	1709.0	1709.0
2.5°	1709.4	1706.7	1705.9	1705.1	1706.7
5°	1704.3	1700.4	1696.5	1695.3	1696.5
7.5°	1689.8	1685.9	1679.2	1677.6	1678.8
10°	1662.7	1659.2	1652.9	1649.4	1647.8
12.5°	1627.0	1621.1	1615.2	1611.3	1607.4
15°	1577.9	1575.2	1570.4	1564.2	1559.8
17.5°	1510.0	1513.9	1516.7	1504.1	1492.7
20°	1421.6	1436.2	1452.7	1427.1	1405.9
22.5°	1283.8	1325.5	1367.5	1319.2	1272.1
25°	1102.5	1166.8	1260.3	1168.8	1087.9
27.5°	890.8	972.5	1119.7	972.9	879.1
30°	695.3	779.3	944.2	768.3	678.8
32.5°	534.0	596.8	737.7	587.3	522.6
35°	411.1	448.4	536.3	449.5	403.6
37.5°	319.6	338.4	360.8	331.8	310.2
40°	250.9	251.7	232.4	247.7	241.1
42.5°	186.1	185.3	142.9	180.6	181.8
45°	111.5	130.0	85.6	126.4	105.2
47.5°	53.0	73.4	51.4	69.5	49.1
50°	25.5	35.3	31.0	33.0	23.9
52.5°	17.3	18.1	17.7	17.3	16.5
55°	12.6	12.6	11.4	12.2	12.2
57.5°	9.4	9.4	8.2	9.0	9.0
60°	7.5	7.1	6.3	7.1	7.1
62.5°	5.5	5.5	4.7	5.5	5.5
65°	4.3	4.3	3.9	4.3	4.3
67.5°	3.5	3.5	2.7	3.5	3.1
70°	2.7	2.7	2.4	2.7	2.7
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)