

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 EX4C209035 4LCSQWH**

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 (G1-2105-247-14)
Test Lab: INNOVATION CENTER
Issue Date: 2/18/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C20D010 EX4C209035 4LCSQWH
Description: 4 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LCSQW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

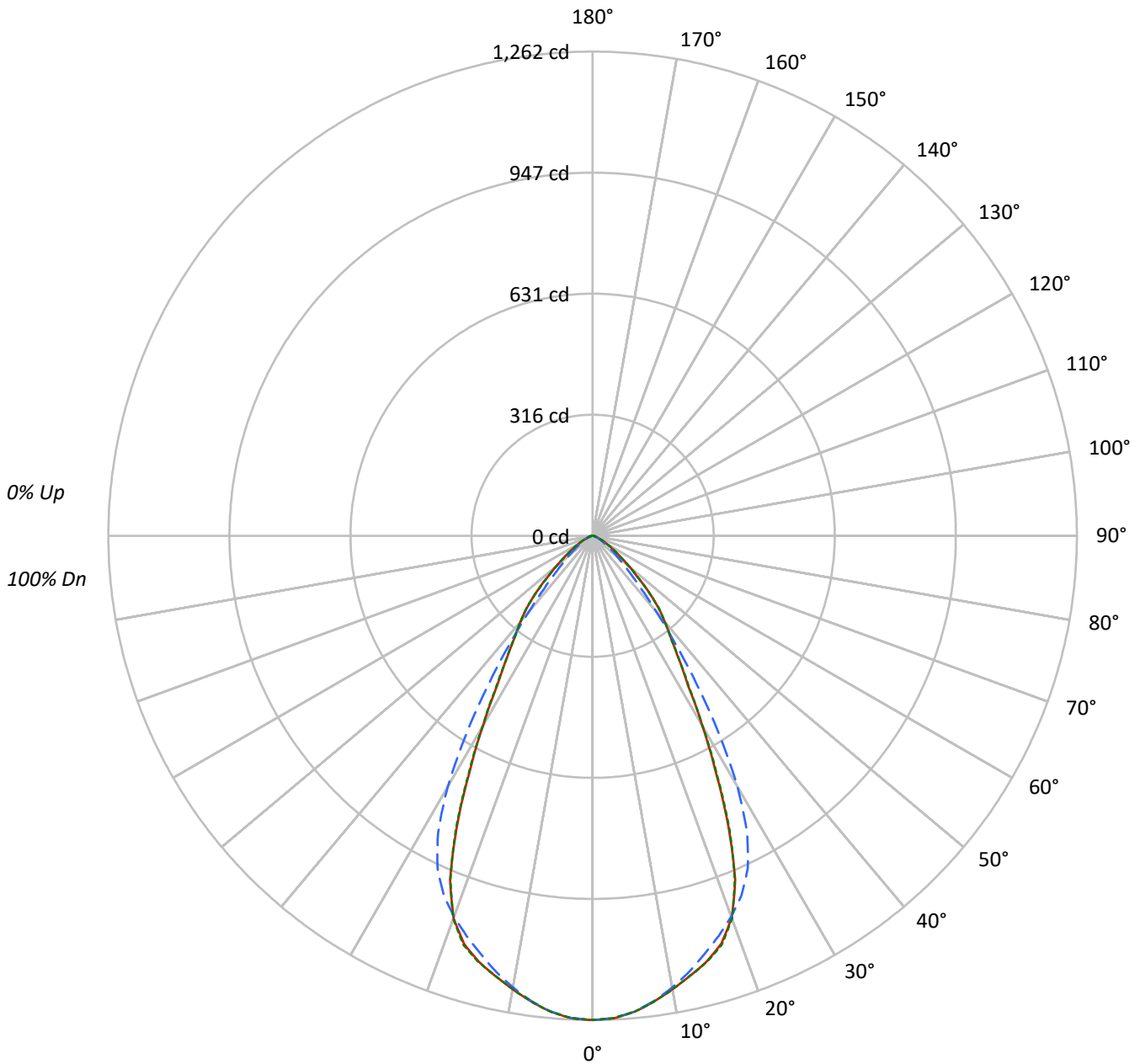
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1336.0 lumens
Efficiency: N/A
Efficacy: 61.3 lumens/watt
Spacing Criteria (0/90/45): 0.93 / 0.93 / 0.94
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

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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	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92																			
2	107	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84																			
3	101	93	88	84	98	92	87	83	89	85	82	87	83	80	85	82	79	77																			
4	95	87	80	76	93	85	80	75	83	78	74	81	77	74	79	76	73	71																			
5	89	80	74	69	88	79	73	69	78	72	68	76	71	68	74	70	67	66																			
6	85	75	68	64	83	74	68	63	72	67	63	71	66	63	70	65	62	61																			
7	80	70	63	59	79	69	63	59	68	62	58	67	62	58	65	61	58	56																			
8	76	65	59	55	74	65	59	54	64	58	54	63	58	54	62	57	54	52																			
9	72	61	55	51	71	61	55	51	60	54	51	59	54	50	58	54	50	49																			
10	68	58	52	48	67	57	51	47	57	51	47	56	51	47	55	50	47	46																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	121798	121798	121798
5°	120675	120607	120636
10°	117592	117122	117592
15°	114757	112689	114877
20°	108811	108401	109007
25°	89249	101843	89717
30°	63641	84130	63730
35°	45903	55751	46045
40°	36805	32396	36805
45°	28083	18899	27864
50°	18524	12069	18464
55°	12449	8108	12314
60°	8375	5538	8452
65°	5731	3904	5639
70°	3809	2821	3809
75°	2535	2088	2535
80°	1778	1556	1778
85°	1329	1329	1329



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.3	8.8
10°-20°	320.0	23.9
20°-30°	400.0	29.9
30°-40°	269.1	20.1
40°-50°	142.1	10.6
50°-60°	57.7	4.3
60°-70°	21.4	1.6
70°-80°	6.9	0.5
80°-90°	1.5	0.1
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°	837.3	62.7
0°-40°	1106.4	82.8
0°-60°	1306.2	97.8
0°-90°	1336.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1336.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1262	1262	1262	1262	1262	
5°	1246	1245	1245	1245	1246	117
15°	1149	1139	1128	1139	1150	322
25°	838	885	957	887	843	377
35°	390	409	473	410	391	251
45°	206	196	138	195	204	158
55°	74	62	48	62	73	69
65°	25	20	17	20	25	26
75°	7	6	6	6	7	8
85°	1	1	1	1	1	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1262.3	1262.3	1262.3	1262.3	1262.3
2.5°	1259.1	1258.3	1257.9	1257.9	1258.3
5°	1245.9	1244.8	1245.2	1245.2	1245.5
7.5°	1224.9	1224.5	1223.3	1224.9	1224.9
10°	1200.2	1198.2	1195.4	1198.6	1200.2
12.5°	1174.7	1168.7	1163.9	1168.7	1174.7
15°	1148.8	1139.3	1128.1	1138.9	1150.0
17.5°	1115.0	1105.4	1093.1	1107.4	1118.2
20°	1059.7	1060.4	1055.7	1059.7	1061.6
22.5°	970.9	988.8	1013.9	989.2	968.1
25°	838.3	885.3	956.6	886.9	842.7
27.5°	696.2	755.9	872.6	759.5	700.6
30°	571.2	624.2	755.1	627.8	572.0
32.5°	462.6	502.0	613.8	506.7	467.7
35°	389.7	409.2	473.3	410.0	390.9
37.5°	334.0	334.0	351.5	335.6	332.4
40°	292.2	279.4	257.2	279.0	292.2
42.5°	253.2	234.1	186.7	233.3	254.0
45°	205.8	195.5	138.5	194.7	204.2
47.5°	158.0	150.9	104.3	150.1	159.2
50°	123.4	112.3	80.4	111.5	123.0
52.5°	94.7	82.8	62.1	82.8	93.9
55°	74.0	62.1	48.2	62.1	73.2
57.5°	56.9	47.4	36.6	46.6	56.5
60°	43.4	35.4	28.7	35.4	43.8
62.5°	33.0	27.1	21.9	26.7	32.6
65°	25.1	20.3	17.1	20.3	24.7
67.5°	18.3	15.1	13.1	15.1	18.7
70°	13.5	11.5	10.0	11.1	13.5
72.5°	10.0	8.4	7.6	8.4	10.0
75°	6.8	6.0	5.6	6.0	6.8
77.5°	4.8	4.4	4.0	4.4	4.8
80°	3.2	2.8	2.8	3.2	3.2
82.5°	2.0	2.0	2.0	2.0	2.0
85°	1.2	1.2	1.2	1.2	1.2
87.5°	0.8	0.8	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)