

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 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 EX4C209040 4LCSQWH
Description: 4 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LCSQW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

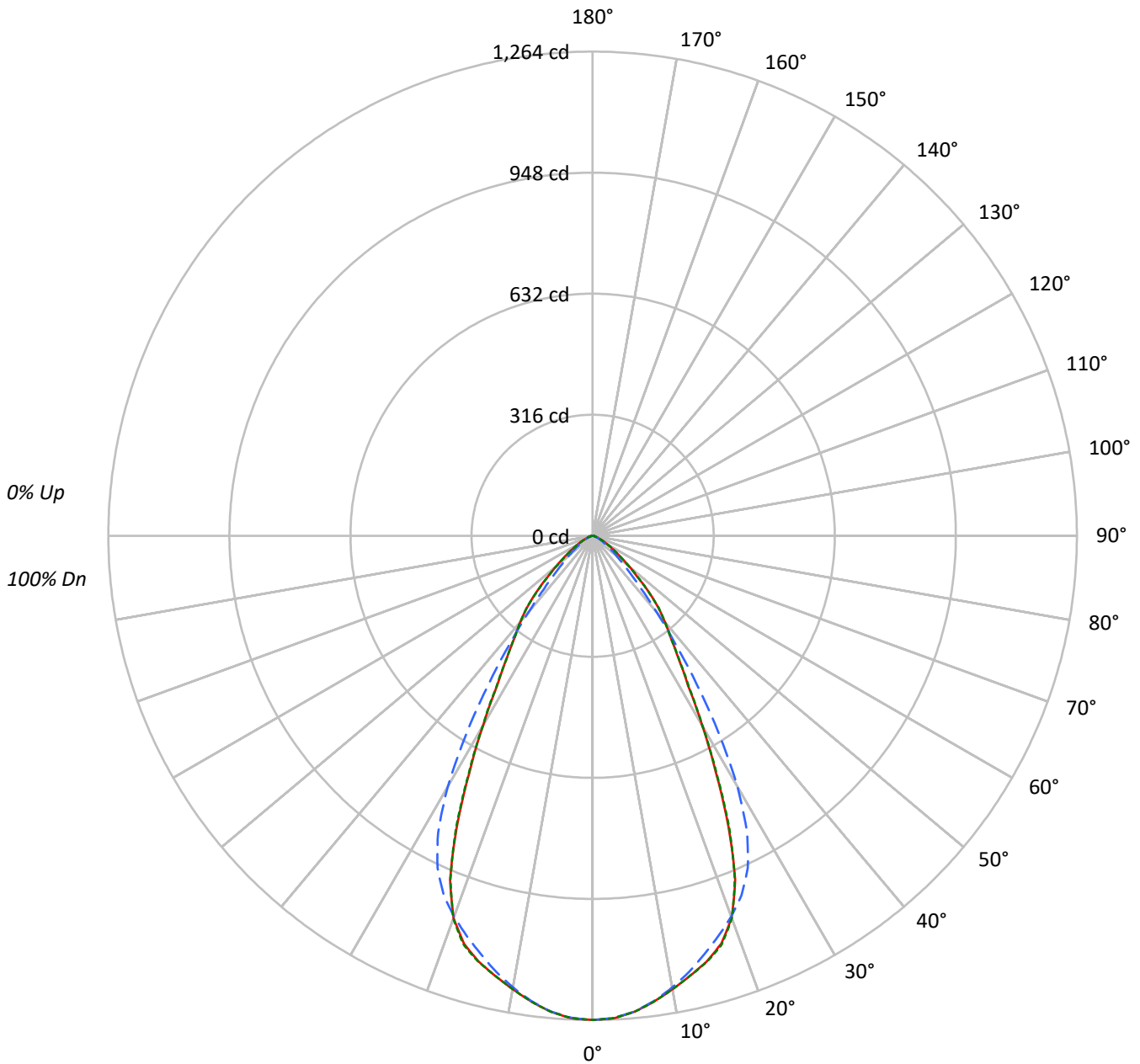
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1338.0 lumens
Efficiency: N/A
Efficacy: 61.4 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 (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	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°	121981	121981	121981
5°	120859	120781	120820
10°	117769	117299	117769
15°	114926	112859	115046
20°	108965	108565	109171
25°	89387	101992	89855
30°	63741	84264	63830
35°	45974	55833	46115
40°	36855	32434	36855
45°	28124	18926	27905
50°	18554	12084	18494
55°	12482	8108	12348
60°	8395	5538	8472
65°	5731	3904	5639
70°	3837	2821	3837
75°	2535	2088	2535
80°	1778	1556	1778
85°	1329	1329	1329



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.5	8.8
10°-20°	320.4	23.9
20°-30°	400.6	29.9
30°-40°	269.5	20.1
40°-50°	142.3	10.6
50°-60°	57.8	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°	838.5	62.7
0°-40°	1108.0	82.8
0°-60°	1308.1	97.8
0°-90°	1338.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1338.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1264	1264	1264	1264	1264	
5°	1248	1247	1247	1247	1247	118
15°	1150	1141	1130	1141	1152	322
25°	840	887	958	888	844	378
35°	390	410	474	411	392	251
45°	206	196	139	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°	1264.2	1264.2	1264.2	1264.2	1264.2
2.5°	1261.0	1260.2	1259.8	1259.8	1260.2
5°	1247.8	1246.6	1247.0	1247.0	1247.4
7.5°	1226.7	1226.3	1225.1	1226.7	1226.7
10°	1202.0	1200.0	1197.2	1200.4	1202.0
12.5°	1176.5	1170.5	1165.7	1170.5	1176.5
15°	1150.5	1141.0	1129.8	1140.6	1151.7
17.5°	1116.7	1107.1	1094.7	1109.1	1119.8
20°	1061.2	1062.0	1057.3	1061.2	1063.2
22.5°	972.3	990.3	1015.4	990.7	969.5
25°	839.6	886.6	958.0	888.2	844.0
27.5°	697.3	757.1	873.9	760.6	701.6
30°	572.1	625.1	756.3	628.7	572.9
32.5°	463.2	502.7	614.7	507.5	468.4
35°	390.3	409.8	474.0	410.6	391.5
37.5°	334.5	334.5	352.0	336.1	332.9
40°	292.6	279.9	257.5	279.5	292.6
42.5°	253.5	234.4	187.0	233.6	254.3
45°	206.1	195.7	138.7	194.9	204.5
47.5°	158.3	151.1	104.4	150.3	159.5
50°	123.6	112.4	80.5	111.6	123.2
52.5°	94.9	82.9	62.2	82.9	94.1
55°	74.2	62.2	48.2	62.2	73.4
57.5°	57.0	47.4	36.7	46.6	56.6
60°	43.5	35.5	28.7	35.5	43.9
62.5°	33.1	27.1	21.9	26.7	32.7
65°	25.1	20.3	17.1	20.3	24.7
67.5°	18.3	15.1	13.2	15.1	18.7
70°	13.6	11.6	10.0	11.2	13.6
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)