

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

**Test Information**

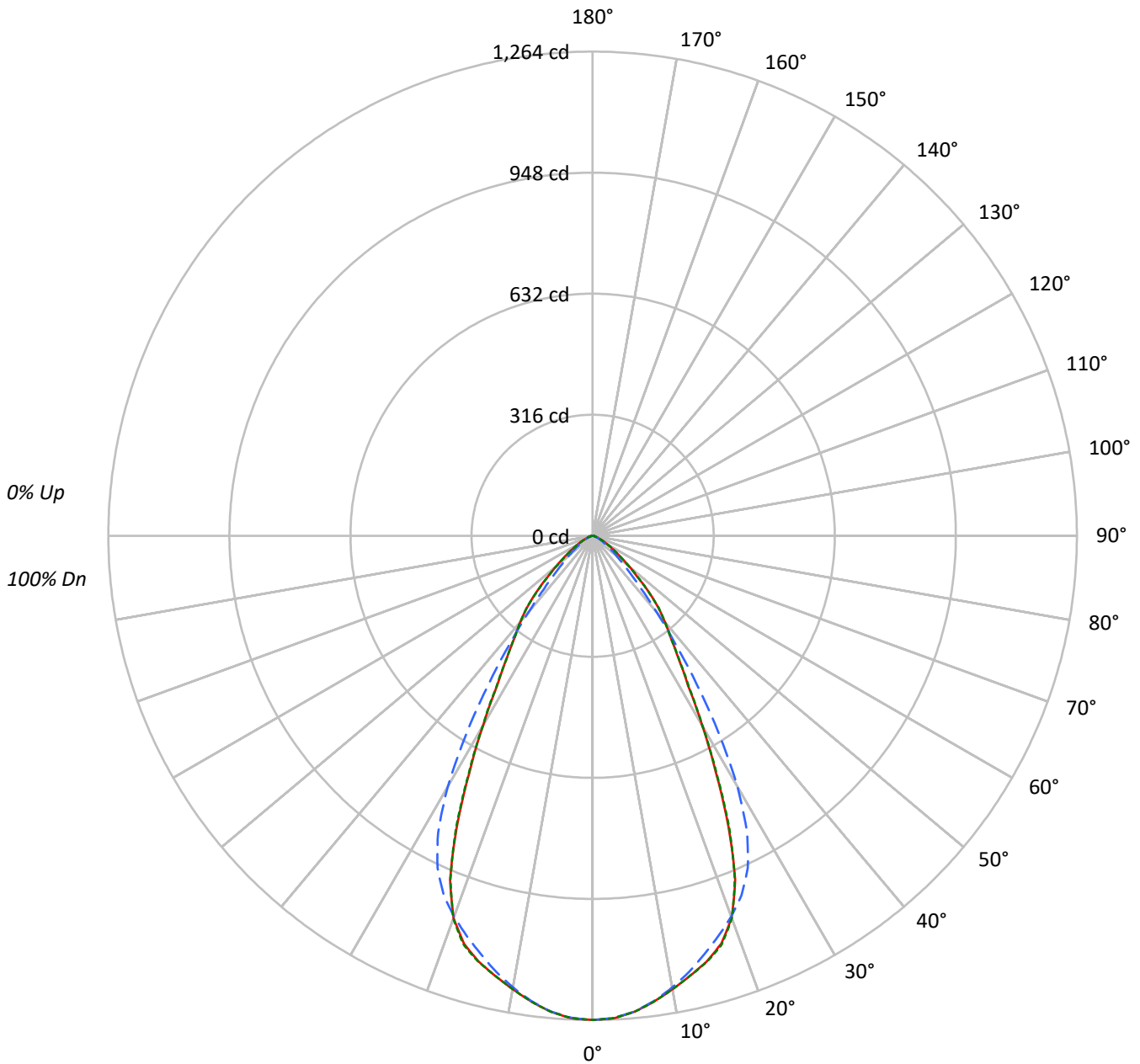
Test Method: LM-79-08  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2105-247-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/18/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD4C20D010 EX4C209040 4LCSQWH  
Description: 4 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS  
AND 4LCSQW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

**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<sub>in</sub>): 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)