

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: P563856

Luminaire Tested: **LD4C05D010 EX4C05D2W 4LCSQWH**

Issue Date: 2/18/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P563856  
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: LD4C05D010 EX4C05D2W 4LCSQWH  
Description: 4 INCH 500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS AND 4LCSQW TRIM WITH H FINISH, DIM TO WARM  
Light Source: -  
Ballast/Driver: -

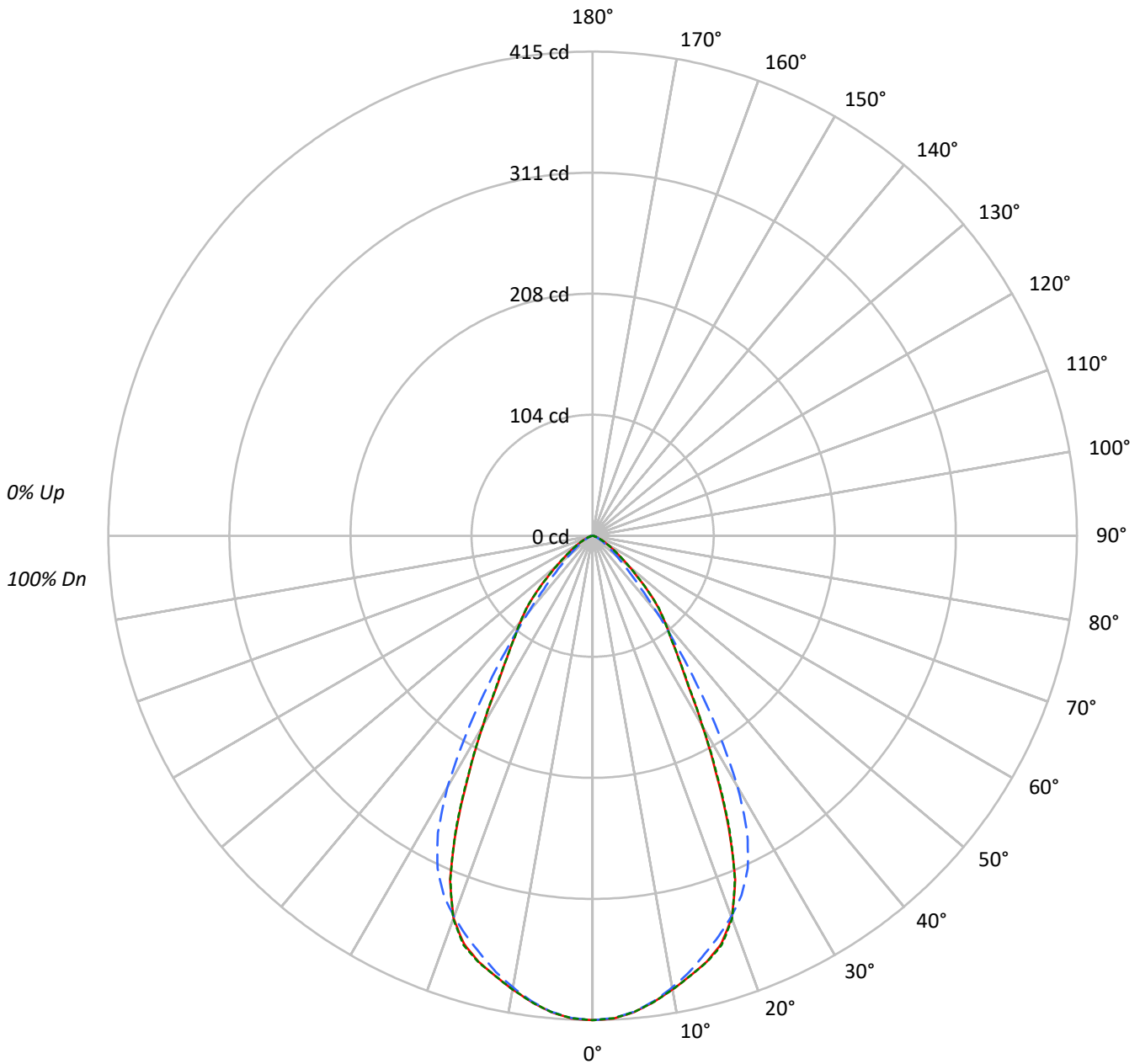
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 439.4 lumens  
Efficiency: N/A  
Efficacy: 61.0 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): 7.2  
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				20				
RC	80				70				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	100	100	100
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92	92	92	92
2	107	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84	84	84	84
3	101	93	88	84	98	92	87	83	89	85	82	87	83	80	85	82	79	77	77	77	77
4	95	87	80	76	93	85	80	75	83	78	74	81	77	74	79	76	73	71	71	71	71
5	90	80	74	69	88	79	73	69	78	72	68	76	71	68	74	70	67	66	66	66	66
6	85	75	68	64	83	74	68	63	72	67	63	71	66	63	70	65	62	61	61	61	61
7	80	70	63	59	79	69	63	59	68	62	58	67	62	58	65	61	58	56	56	56	56
8	76	65	59	55	74	65	59	54	64	58	54	63	58	54	62	57	54	52	52	52	52
9	72	61	55	51	71	61	55	51	60	54	51	59	54	50	58	54	50	49	49	49	49
10	68	58	52	48	67	57	51	47	57	51	47	56	51	47	55	50	47	46	46	46	46

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	40062	40062	40062
5°	39692	39663	39683
10°	38681	38515	38681
15°	37749	37070	37789
20°	35784	35661	35856
25°	29363	33493	29512
30°	20935	27676	20968
35°	15101	18328	15148
40°	12104	10656	12104
45°	9224	6222	9156
50°	6094	3963	6079
55°	4088	2675	4054
60°	2740	1833	2779
65°	1872	1279	1849
70°	1270	931	1270
75°	820	671	820
80°	556	500	556
85°	443	443	443



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	38.6	8.8
10°-20°	105.2	24.0
20°-30°	131.6	29.9
30°-40°	88.5	20.1
40°-50°	46.7	10.6
50°-60°	19.0	4.3
60°-70°	7.1	1.6
70°-80°	2.2	0.5
80°-90°	0.5	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°	275.4	62.7
0°-40°	363.9	82.8
0°-60°	429.6	97.8
0°-90°	439.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	439.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	415	415	415	415	415	
5°	410	409	410	410	410	39
15°	378	375	371	375	378	106
25°	276	291	315	292	277	124
35°	128	135	156	135	129	83
45°	68	64	46	64	67	52
55°	24	20	16	20	24	23
65°	8	7	6	7	8	8
75°	2	2	2	2	2	3
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	415.2	415.2	415.2	415.2	415.2
2.5°	414.1	413.9	413.7	413.7	413.9
5°	409.8	409.4	409.5	409.5	409.7
7.5°	402.9	402.7	402.3	402.9	402.9
10°	394.8	394.1	393.1	394.3	394.8
12.5°	386.3	384.4	382.9	384.4	386.3
15°	377.9	374.7	371.1	374.6	378.3
17.5°	366.7	363.5	359.6	364.3	367.8
20°	348.5	348.8	347.3	348.5	349.2
22.5°	319.3	325.2	333.4	325.4	318.4
25°	275.8	291.2	314.6	291.7	277.2
27.5°	229.0	248.6	287.0	249.8	230.4
30°	187.9	205.3	248.4	206.5	188.2
32.5°	152.2	165.1	201.9	166.7	153.8
35°	128.2	134.6	155.6	134.9	128.6
37.5°	109.9	109.9	115.7	110.4	109.3
40°	96.1	92.0	84.6	91.8	96.1
42.5°	83.3	77.0	61.4	76.7	83.5
45°	67.6	64.3	45.6	64.0	67.1
47.5°	52.0	49.6	34.3	49.3	52.4
50°	40.6	36.9	26.4	36.6	40.5
52.5°	31.1	27.3	20.4	27.3	30.9
55°	24.3	20.4	15.9	20.4	24.1
57.5°	18.7	15.6	12.0	15.4	18.6
60°	14.2	11.7	9.5	11.7	14.4
62.5°	10.9	9.0	7.2	8.7	10.8
65°	8.2	6.7	5.6	6.7	8.1
67.5°	6.0	5.0	4.3	5.0	6.1
70°	4.5	3.8	3.3	3.7	4.5
72.5°	3.3	2.7	2.4	2.7	3.3
75°	2.2	1.9	1.8	1.9	2.2
77.5°	1.5	1.4	1.3	1.4	1.5
80°	1.0	0.9	0.9	1.0	1.0
82.5°	0.6	0.6	0.6	0.6	0.6
85°	0.4	0.4	0.4	0.4	0.4
87.5°	0.3	0.3	0.3	0.3	0.3
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)