

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: **LD4C80D010 EX4C809050 4LCSQWLI**

Issue Date: 2/18/2022

**Test Information**

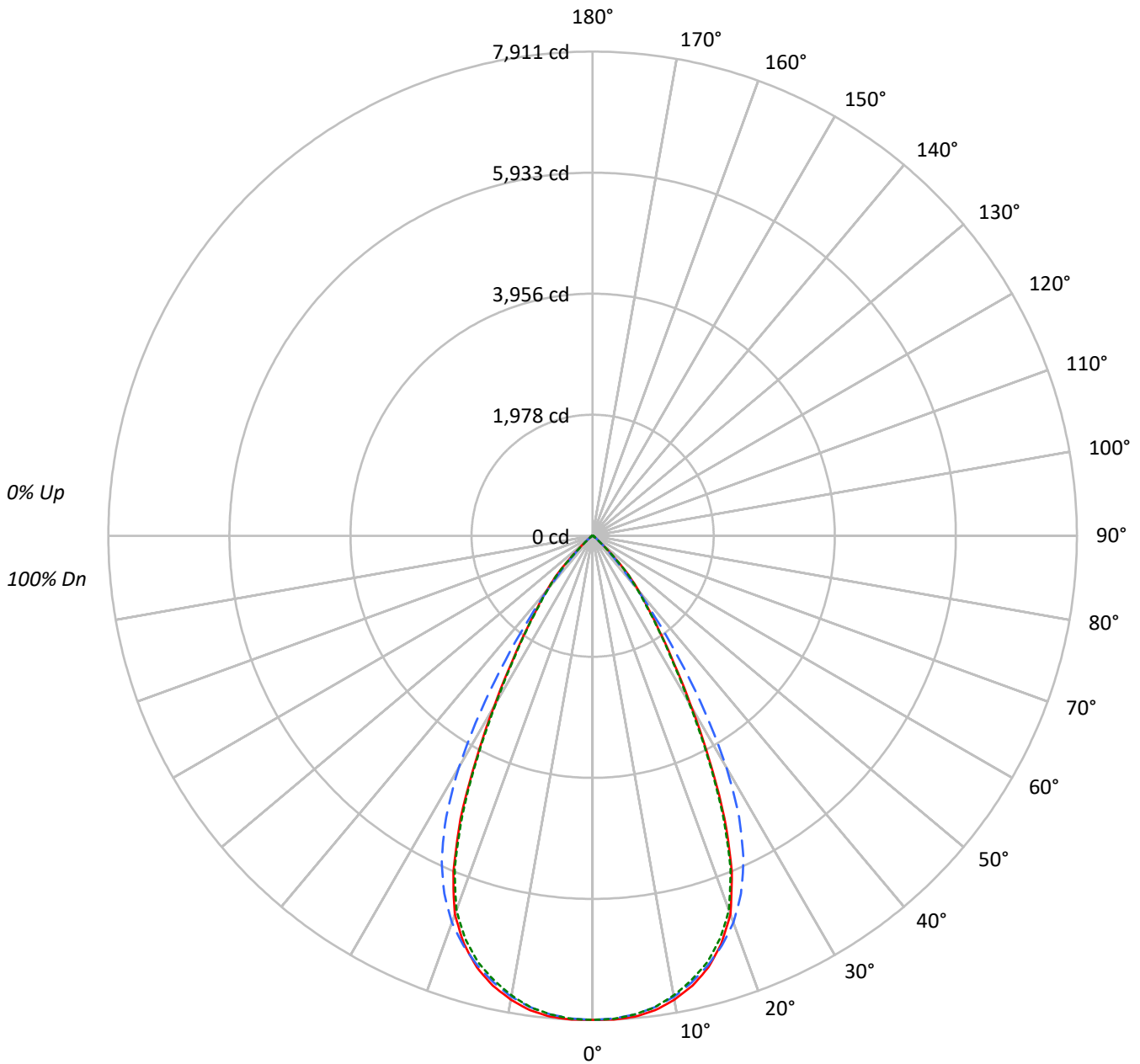
Test Method: LM-79-08  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2105-247-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/18/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD4C80D010 EX4C809050 4LCSQWLI  
Description: 4 INCH 8000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 4LCSQW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7081.0 lumens  
Efficiency: N/A  
Efficacy: 79.1 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): 89.5  
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	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°	763189	763189	763189
5°	763992	760476	760476
10°	753956	749507	747185
15°	729486	726040	721135
20°	675592	690337	668127
25°	543210	620971	536045
30°	358536	486887	350035
35°	224086	292370	220022
40°	146249	135492	140531
45°	70411	54050	66454
50°	17728	21541	16632
55°	9774	8865	9471
60°	6658	5616	6310
65°	4566	4155	4566
70°	3583	3075	3583
75°	2721	2721	2721
80°	2000	3056	3056
85°	1993	3986	3986



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	743.9	10.5
10°-20°	2031.4	28.7
20°-30°	2420.8	34.2
30°-40°	1370.8	19.4
40°-50°	423.8	6.0
50°-60°	58.9	0.8
60°-70°	20.1	0.3
70°-80°	8.0	0.1
80°-90°	3.3	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°	5196.1	73.4
0°-40°	6566.9	92.7
0°-60°	7049.5	99.6
0°-90°	7081.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7081.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7910	7910	7910	7910	7910	
5°	7888	7870	7852	7846	7852	747
15°	7303	7290	7268	7239	7219	2036
25°	5102	5400	5833	5409	5035	2275
35°	1902	2075	2482	2080	1868	1238
45°	516	601	396	585	487	426
55°	58	58	53	56	56	57
65°	20	20	18	20	20	21
75°	7	7	7	7	7	8
85°	2	4	4	4	4	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7909.6	7909.6	7909.6	7909.6	7909.6
2.5°	7911.4	7898.7	7895.1	7891.4	7898.7
5°	7887.8	7869.6	7851.5	7846.0	7851.5
7.5°	7820.6	7802.4	7771.5	7764.2	7769.7
10°	7695.2	7678.8	7649.8	7633.4	7626.1
12.5°	7529.8	7502.6	7475.3	7457.2	7439.0
15°	7302.7	7290.0	7268.2	7239.1	7219.1
17.5°	6988.4	7006.5	7019.3	6961.1	6908.4
20°	6579.5	6646.8	6723.1	6605.0	6506.8
22.5°	5941.7	6134.4	6328.8	6105.3	5887.2
25°	5102.3	5400.3	5832.7	5409.4	5035.0
27.5°	4122.9	4500.8	5182.2	4502.6	4068.4
30°	3218.0	3606.8	4370.0	3556.0	3141.7
32.5°	2471.2	2761.9	3414.2	2718.3	2418.5
35°	1902.4	2075.1	2482.1	2080.5	1867.9
37.5°	1479.1	1566.3	1669.9	1535.4	1435.5
40°	1161.1	1164.7	1075.7	1146.6	1115.7
42.5°	861.3	857.6	661.4	835.8	841.3
45°	516.0	601.4	396.1	585.1	487.0
47.5°	245.3	339.8	238.0	321.6	227.1
50°	118.1	163.5	143.5	152.6	110.8
52.5°	80.0	83.6	81.8	80.0	76.3
55°	58.1	58.1	52.7	56.3	56.3
57.5°	43.6	43.6	38.2	41.8	41.8
60°	34.5	32.7	29.1	32.7	32.7
62.5°	25.4	25.4	21.8	25.4	25.4
65°	20.0	20.0	18.2	20.0	20.0
67.5°	16.4	16.4	12.7	16.4	14.5
70°	12.7	12.7	10.9	12.7	12.7
72.5°	9.1	9.1	9.1	9.1	9.1
75°	7.3	7.3	7.3	7.3	7.3
77.5°	5.5	5.5	5.5	5.5	5.5
80°	3.6	3.6	5.5	5.5	5.5
82.5°	3.6	3.6	3.6	3.6	3.6
85°	1.8	3.6	3.6	3.6	3.6
87.5°	1.8	1.8	3.6	3.6	3.6
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)