

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 EX4C809035 4LCSQWLI**

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 (G1-2105-247-13)
Test Lab: INNOVATION CENTER
Issue Date: 2/18/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C80D010 EX4C809035 4LCSQWLI
Description: 4 INCH 8000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LCSQW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

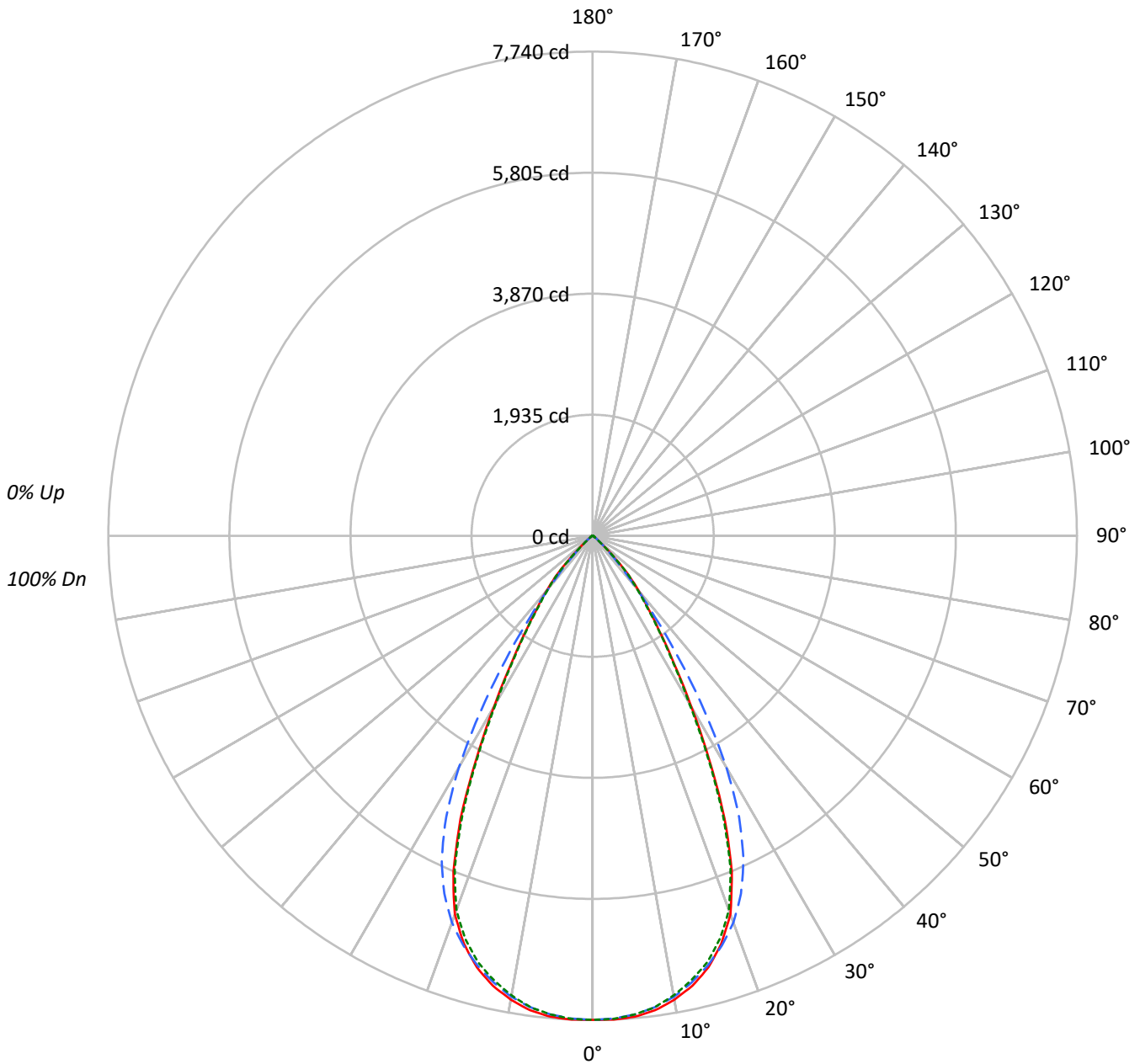
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6928.0 lumens
Efficiency: N/A
Efficacy: 77.4 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 (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	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°	746699	746699	746699
5°	747488	744040	744040
10°	737662	733312	731049
15°	713723	710347	705552
20°	661001	675417	653700
25°	531467	607556	524462
30°	350793	476369	342470
35°	219245	286056	215275
40°	143087	132557	137495
45°	68897	52890	65008
50°	17353	21075	16272
55°	9572	8680	9269
60°	6523	5481	6175
65°	4475	4064	4475
70°	3498	3019	3498
75°	2647	2647	2647
80°	2000	2945	2945
85°	1993	3986	3986



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	727.8	10.5
10°-20°	1987.5	28.7
20°-30°	2368.5	34.2
30°-40°	1341.2	19.4
40°-50°	414.6	6.0
50°-60°	57.6	0.8
60°-70°	19.7	0.3
70°-80°	7.8	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°	5083.8	73.4
0°-40°	6425.0	92.7
0°-60°	6897.2	99.6
0°-90°	6928.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6928.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7739	7739	7739	7739	7739	
5°	7717	7700	7682	7676	7682	731
15°	7145	7132	7111	7083	7063	1992
25°	4992	5284	5707	5292	4926	2226
35°	1861	2030	2428	2036	1828	1211
45°	505	588	388	572	476	417
55°	57	57	52	55	55	56
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°	7738.7	7738.7	7738.7	7738.7	7738.7
2.5°	7740.5	7728.0	7724.5	7720.9	7728.0
5°	7717.4	7699.6	7681.8	7676.5	7681.8
7.5°	7651.6	7633.8	7603.6	7596.5	7601.8
10°	7528.9	7512.9	7484.5	7468.5	7461.4
12.5°	7367.1	7340.5	7313.8	7296.0	7278.3
15°	7144.9	7132.5	7111.1	7082.7	7063.1
17.5°	6837.4	6855.1	6867.6	6810.7	6759.1
20°	6437.4	6503.1	6577.8	6462.3	6366.3
22.5°	5813.4	6001.8	6192.0	5973.4	5760.0
25°	4992.0	5283.6	5706.7	5292.5	4926.2
27.5°	4033.8	4403.6	5070.2	4405.4	3980.5
30°	3148.5	3528.9	4275.6	3479.1	3073.8
32.5°	2417.8	2702.2	3340.5	2659.6	2366.2
35°	1861.3	2030.2	2428.5	2035.6	1827.6
37.5°	1447.1	1532.5	1633.8	1502.2	1404.5
40°	1136.0	1139.6	1052.4	1121.8	1091.6
42.5°	842.7	839.1	647.1	817.8	823.1
45°	504.9	588.4	387.6	572.4	476.4
47.5°	240.0	332.4	232.9	314.7	222.2
50°	115.6	160.0	140.4	149.3	108.4
52.5°	78.2	81.8	80.0	78.2	74.7
55°	56.9	56.9	51.6	55.1	55.1
57.5°	42.7	42.7	37.3	40.9	40.9
60°	33.8	32.0	28.4	32.0	32.0
62.5°	24.9	24.9	21.3	24.9	24.9
65°	19.6	19.6	17.8	19.6	19.6
67.5°	16.0	16.0	12.4	16.0	14.2
70°	12.4	12.4	10.7	12.4	12.4
72.5°	8.9	8.9	8.9	8.9	8.9
75°	7.1	7.1	7.1	7.1	7.1
77.5°	5.3	5.3	5.3	5.3	5.3
80°	3.6	3.6	5.3	5.3	5.3
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)