

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: **LD4C100D010 EX4C1009027 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: LD4C100D010 EX4C1009027 4LCSQWLI
Description: 4 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LCSQW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

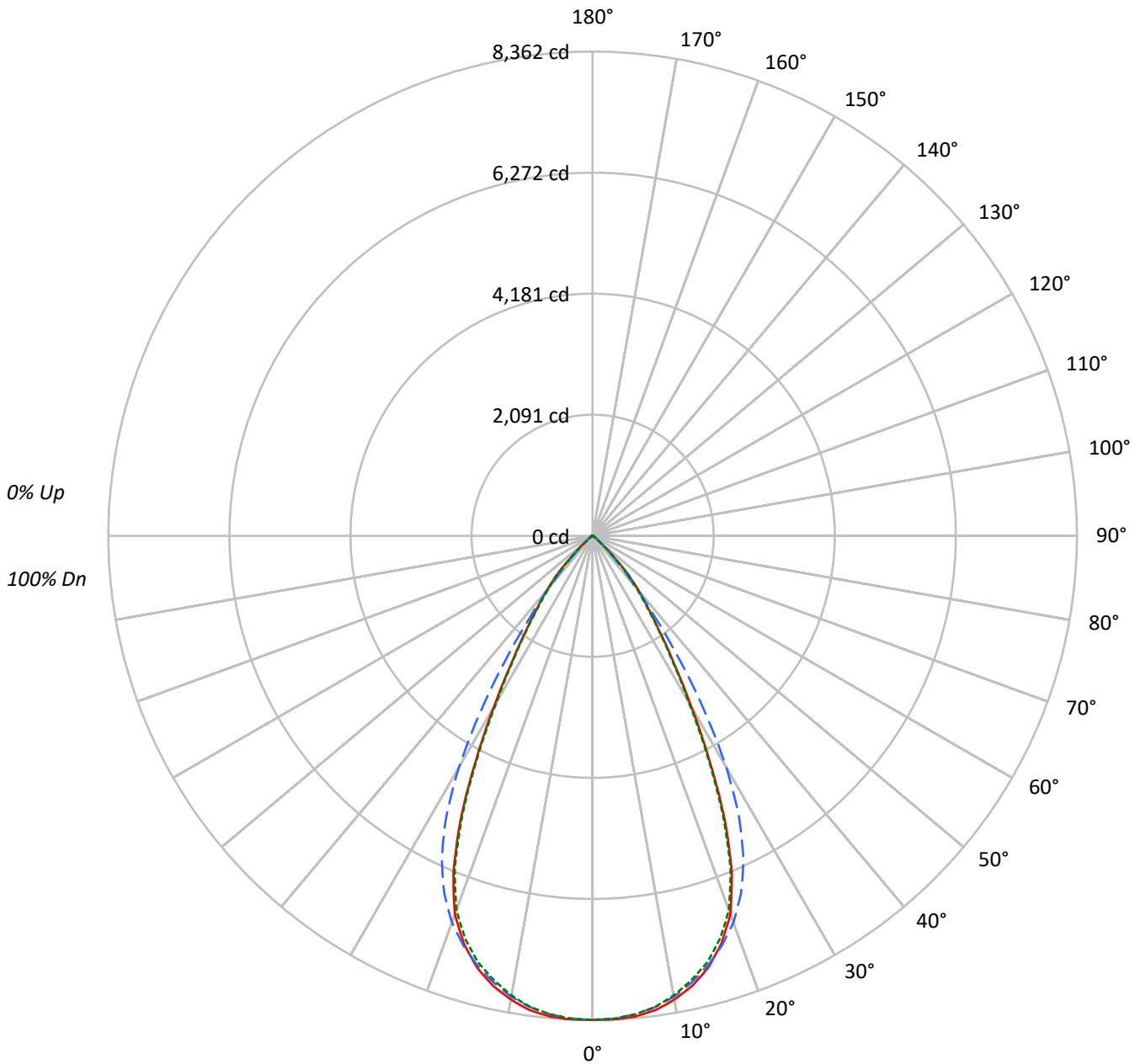
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7484.0 lumens
Efficiency: N/A
Efficacy: 65.4 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): 114.4
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°	806628	806628	806628
5°	807472	803752	803752
10°	796870	792157	789717
15°	771001	767355	762181
20°	714046	729623	706160
25°	574127	656317	566557
30°	378936	514596	369956
35°	236843	309002	232543
40°	154575	143201	148529
45°	74423	57134	70234
50°	18734	22772	17578
55°	10346	9370	10009
60°	7044	5924	6677
65°	4817	4384	4817
70°	3780	3244	3780
75°	2871	2871	2871
80°	2111	3223	3223
85°	2103	4207	4207



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	786.2	10.5
10°-20°	2147.0	28.7
20°-30°	2558.6	34.2
30°-40°	1448.8	19.4
40°-50°	447.9	6.0
50°-60°	62.2	0.8
60°-70°	21.2	0.3
70°-80°	8.5	0.1
80°-90°	3.5	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°	5491.8	73.4
0°-40°	6940.6	92.7
0°-60°	7450.8	99.6
0°-90°	7484.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7484.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8360	8360	8360	8360	8360	
5°	8337	8318	8298	8292	8298	789
15°	7718	7705	7682	7651	7630	2152
25°	5393	5708	6165	5717	5322	2404
35°	2011	2193	2623	2199	1974	1309
45°	545	636	419	618	515	450
55°	62	62	56	60	60	60
65°	21	21	19	21	21	22
75°	8	8	8	8	8	8
85°	2	4	4	4	4	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8359.8	8359.8	8359.8	8359.8	8359.8
2.5°	8361.7	8348.2	8344.4	8340.6	8348.2
5°	8336.7	8317.5	8298.3	8292.5	8298.3
7.5°	8265.7	8246.5	8213.8	8206.1	8211.9
10°	8133.2	8115.9	8085.1	8067.9	8060.2
12.5°	7958.4	7929.6	7900.8	7881.6	7862.4
15°	7718.3	7704.9	7681.8	7651.1	7630.0
17.5°	7386.1	7405.3	7418.7	7357.3	7301.6
20°	6954.0	7025.0	7105.7	6980.9	6877.2
22.5°	6279.9	6483.5	6689.0	6452.7	6222.3
25°	5392.7	5707.6	6164.7	5717.2	5321.6
27.5°	4357.5	4757.0	5477.2	4758.9	4299.9
30°	3401.1	3812.1	4618.7	3758.3	3320.5
32.5°	2611.8	2919.1	3608.5	2873.0	2556.1
35°	2010.7	2193.2	2623.3	2198.9	1974.2
37.5°	1563.3	1655.4	1764.9	1622.8	1517.2
40°	1227.2	1231.0	1136.9	1211.8	1179.2
42.5°	910.3	906.5	699.0	883.4	889.2
45°	545.4	635.7	418.7	618.4	514.7
47.5°	259.3	359.1	251.6	339.9	240.1
50°	124.8	172.8	151.7	161.3	117.1
52.5°	84.5	88.3	86.4	84.5	80.7
55°	61.5	61.5	55.7	59.5	59.5
57.5°	46.1	46.1	40.3	44.2	44.2
60°	36.5	34.6	30.7	34.6	34.6
62.5°	26.9	26.9	23.0	26.9	26.9
65°	21.1	21.1	19.2	21.1	21.1
67.5°	17.3	17.3	13.4	17.3	15.4
70°	13.4	13.4	11.5	13.4	13.4
72.5°	9.6	9.6	9.6	9.6	9.6
75°	7.7	7.7	7.7	7.7	7.7
77.5°	5.8	5.8	5.8	5.8	5.8
80°	3.8	3.8	5.8	5.8	5.8
82.5°	3.8	3.8	3.8	3.8	3.8
85°	1.9	3.8	3.8	3.8	3.8
87.5°	1.9	1.9	3.8	3.8	3.8
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)