

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: **LD4C25D010 EX4C259035 4LCSQWH**

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 (G1-2105-247-14)
Test Lab: INNOVATION CENTER
Issue Date: 2/18/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C25D010 EX4C259035 4LCSQWH
Description: 4 INCH 2500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LCSQW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

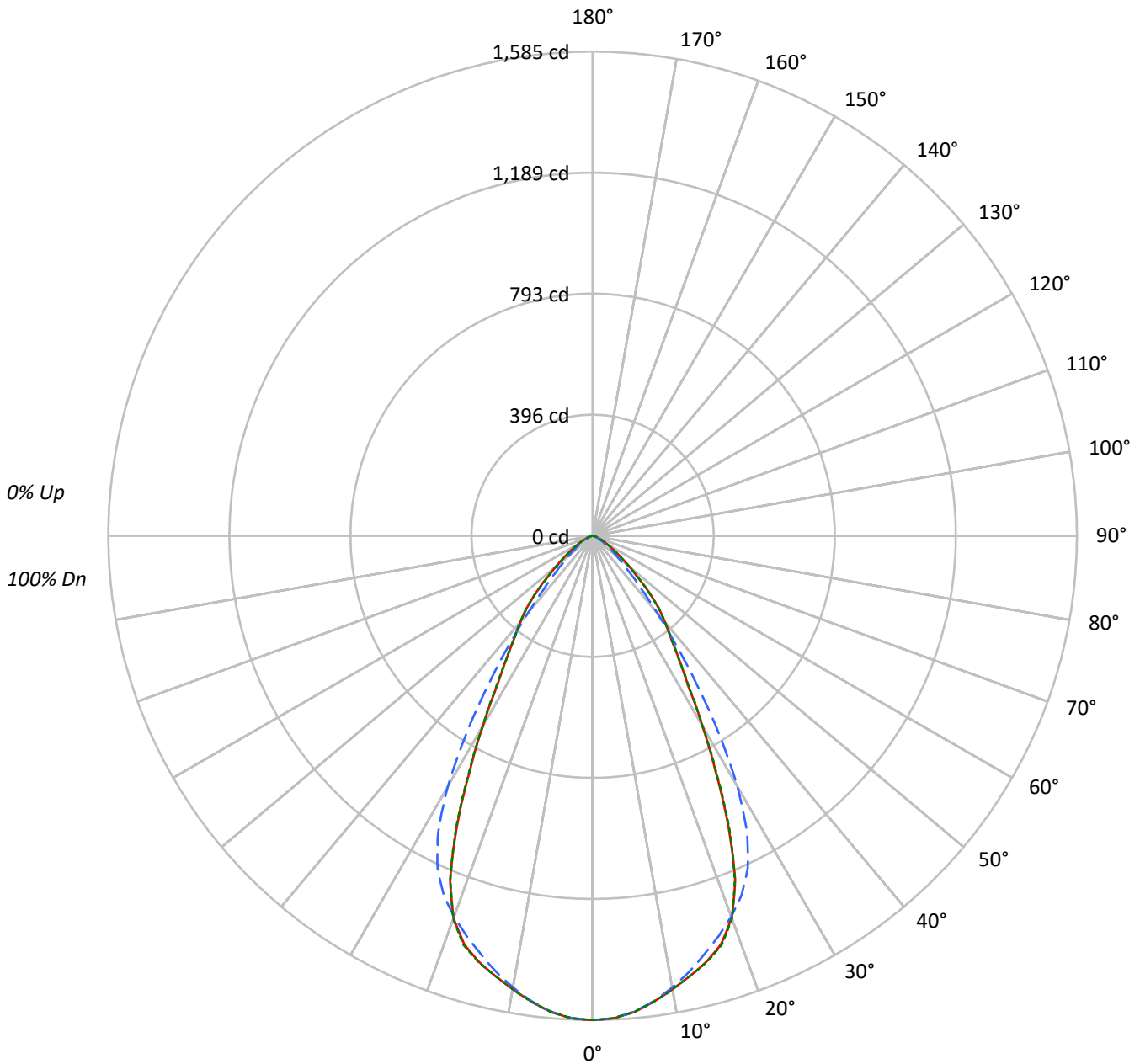
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1678.0 lumens
Efficiency: N/A
Efficacy: 53.3 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): 31.5
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	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°	152973	152973	152973
5°	151572	151475	151524
10°	147691	147103	147691
15°	144135	141538	144285
20°	136659	136145	136915
25°	112096	127906	112681
30°	79941	105667	80052
35°	57659	70027	57835
40°	46226	40684	46226
45°	35274	23743	35001
50°	23267	15161	23192
55°	15645	10178	15477
60°	10517	6947	10614
65°	7192	4909	7078
70°	4796	3526	4796
75°	3169	2610	3169
80°	2223	1945	2223
85°	1661	1661	1661



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.4	8.8
10°-20°	401.9	23.9
20°-30°	502.4	29.9
30°-40°	338.0	20.1
40°-50°	178.5	10.6
50°-60°	72.5	4.3
60°-70°	26.9	1.6
70°-80°	8.7	0.5
80°-90°	1.9	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°	1051.6	62.7
0°-40°	1389.6	82.8
0°-60°	1640.6	97.8
0°-90°	1678.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1678.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1585	1585	1585	1585	1585	
5°	1565	1563	1564	1564	1564	147
15°	1443	1431	1417	1430	1444	404
25°	1053	1112	1201	1114	1058	474
35°	490	514	594	515	491	315
45°	258	246	174	244	256	198
55°	93	78	60	78	92	86
65°	32	26	22	26	31	32
75°	8	8	7	8	8	10
85°	2	2	2	2	2	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1585.4	1585.4	1585.4	1585.4	1585.4
2.5°	1581.4	1580.4	1579.9	1579.9	1580.4
5°	1564.9	1563.4	1563.9	1563.9	1564.4
7.5°	1538.4	1537.9	1536.4	1538.4	1538.4
10°	1507.4	1504.9	1501.4	1505.4	1507.4
12.5°	1475.4	1467.9	1461.9	1467.9	1475.4
15°	1442.9	1430.9	1416.9	1430.4	1444.4
17.5°	1400.4	1388.4	1372.9	1390.9	1404.4
20°	1330.9	1331.9	1325.9	1330.9	1333.4
22.5°	1219.4	1241.9	1273.4	1242.4	1215.9
25°	1052.9	1111.9	1201.4	1113.9	1058.4
27.5°	874.4	949.4	1095.9	953.9	879.9
30°	717.5	783.9	948.4	788.4	718.5
32.5°	581.0	630.5	770.9	636.5	587.5
35°	489.5	514.0	594.5	515.0	491.0
37.5°	419.5	419.5	441.5	421.5	417.5
40°	367.0	351.0	323.0	350.5	367.0
42.5°	318.0	294.0	234.5	293.0	319.0
45°	258.5	245.5	174.0	244.5	256.5
47.5°	198.5	189.5	131.0	188.5	200.0
50°	155.0	141.0	101.0	140.0	154.5
52.5°	119.0	104.0	78.0	104.0	118.0
55°	93.0	78.0	60.5	78.0	92.0
57.5°	71.5	59.5	46.0	58.5	71.0
60°	54.5	44.5	36.0	44.5	55.0
62.5°	41.5	34.0	27.5	33.5	41.0
65°	31.5	25.5	21.5	25.5	31.0
67.5°	23.0	19.0	16.5	19.0	23.5
70°	17.0	14.5	12.5	14.0	17.0
72.5°	12.5	10.5	9.5	10.5	12.5
75°	8.5	7.5	7.0	7.5	8.5
77.5°	6.0	5.5	5.0	5.5	6.0
80°	4.0	3.5	3.5	4.0	4.0
82.5°	2.5	2.5	2.5	2.5	2.5
85°	1.5	1.5	1.5	1.5	1.5
87.5°	1.0	1.0	1.0	1.0	1.0
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)