

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: **LD4C45D010 EX4C459030 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: LD4C45D010 EX4C459030 4LCSQWLI
Description: 4 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LCSQW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

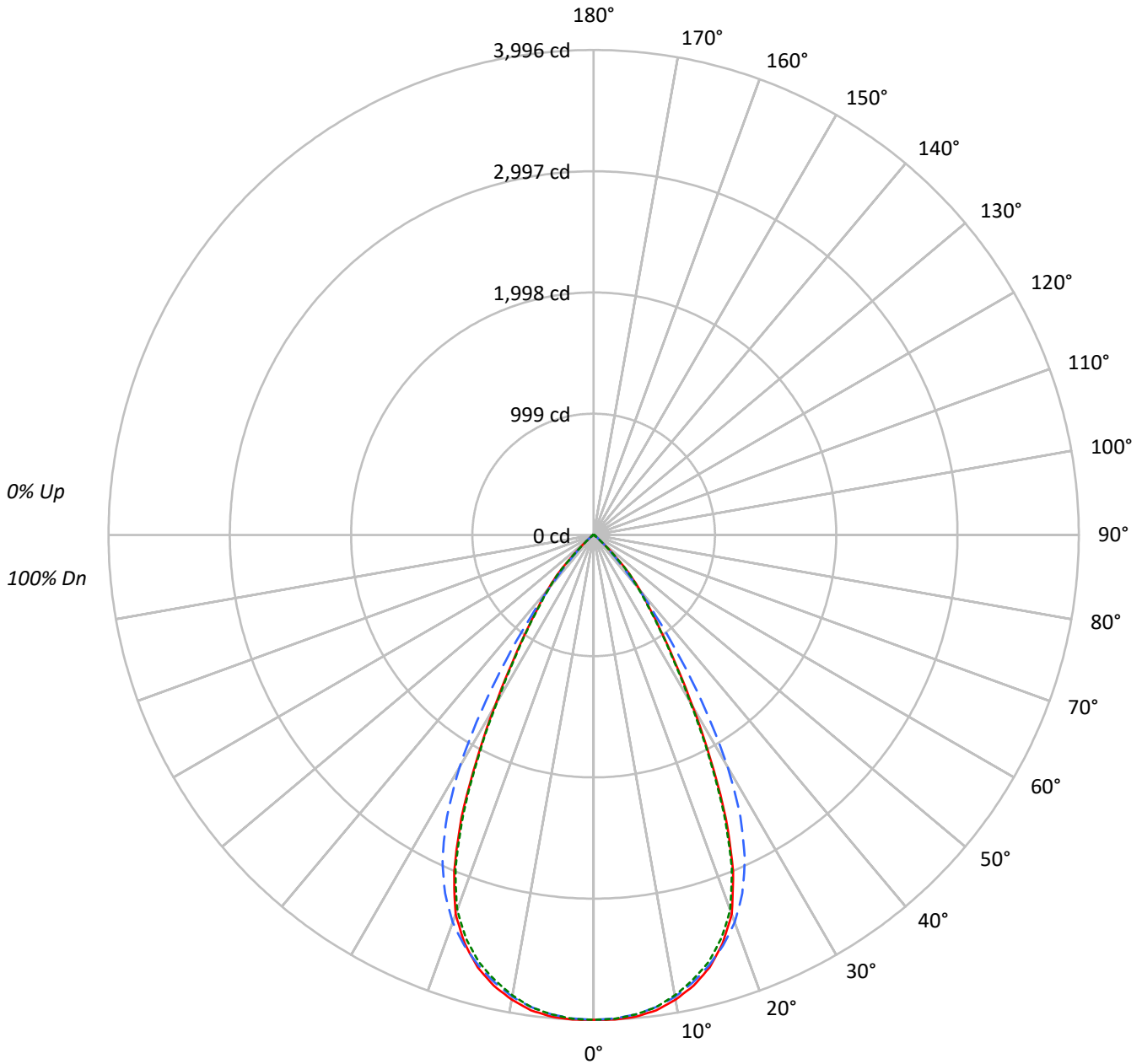
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3577.0 lumens
Efficiency: N/A
Efficacy: 72.1 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): 49.6
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°	385531	385531	385531
5°	385938	384156	384156
10°	380868	378614	377448
15°	368504	366766	364289
20°	341282	348726	337514
25°	274400	313685	270790
30°	181117	245950	176817
35°	113197	147687	111148
40°	73874	68445	70990
45°	35574	27305	33568
50°	8962	10883	8406
55°	4946	4475	4794
60°	3358	2837	3184
65°	2306	2100	2306
70°	1806	1552	1806
75°	1379	1379	1379
80°	1000	1556	1556
85°	996	1993	1993



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	375.8	10.5
10°-20°	1026.2	28.7
20°-30°	1222.9	34.2
30°-40°	692.5	19.4
40°-50°	214.1	6.0
50°-60°	29.7	0.8
60°-70°	10.2	0.3
70°-80°	4.1	0.1
80°-90°	1.7	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°	2624.8	73.4
0°-40°	3317.3	92.7
0°-60°	3561.1	99.6
0°-90°	3577.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3577.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3996	3996	3996	3996	3996	
5°	3985	3975	3966	3963	3966	377
15°	3689	3683	3672	3657	3647	1029
25°	2577	2728	2946	2733	2544	1149
35°	961	1048	1254	1051	944	625
45°	261	304	200	296	246	215
55°	29	29	27	28	28	29
65°	10	10	9	10	10	11
75°	4	4	4	4	4	4
85°	1	2	2	2	2	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3995.6	3995.6	3995.6	3995.6	3995.6
2.5°	3996.5	3990.1	3988.2	3986.4	3990.1
5°	3984.6	3975.4	3966.2	3963.4	3966.2
7.5°	3950.6	3941.4	3925.8	3922.1	3924.9
10°	3887.3	3879.0	3864.3	3856.1	3852.4
12.5°	3803.7	3790.0	3776.2	3767.0	3757.8
15°	3689.0	3682.6	3671.6	3656.9	3646.8
17.5°	3530.2	3539.4	3545.8	3516.4	3489.8
20°	3323.7	3357.6	3396.2	3336.5	3287.0
22.5°	3001.5	3098.8	3197.0	3084.1	2974.0
25°	2577.4	2728.0	2946.4	2732.6	2543.5
27.5°	2082.7	2273.6	2617.8	2274.5	2055.2
30°	1625.6	1822.0	2207.5	1796.3	1587.0
32.5°	1248.3	1395.2	1724.7	1373.2	1221.7
35°	961.0	1048.2	1253.8	1051.0	943.6
37.5°	747.2	791.2	843.5	775.6	725.1
40°	586.5	588.4	543.4	579.2	563.6
42.5°	435.1	433.2	334.1	422.2	425.0
45°	260.7	303.8	200.1	295.6	246.0
47.5°	123.9	171.6	120.2	162.5	114.7
50°	59.7	82.6	72.5	77.1	56.0
52.5°	40.4	42.2	41.3	40.4	38.6
55°	29.4	29.4	26.6	28.5	28.5
57.5°	22.0	22.0	19.3	21.1	21.1
60°	17.4	16.5	14.7	16.5	16.5
62.5°	12.9	12.9	11.0	12.9	12.9
65°	10.1	10.1	9.2	10.1	10.1
67.5°	8.3	8.3	6.4	8.3	7.3
70°	6.4	6.4	5.5	6.4	6.4
72.5°	4.6	4.6	4.6	4.6	4.6
75°	3.7	3.7	3.7	3.7	3.7
77.5°	2.8	2.8	2.8	2.8	2.8
80°	1.8	1.8	2.8	2.8	2.8
82.5°	1.8	1.8	1.8	1.8	1.8
85°	0.9	1.8	1.8	1.8	1.8
87.5°	0.9	0.9	1.8	1.8	1.8
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)