

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: **LD4C50D010 EX4C509030 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: LD4C50D010 EX4C509030 4LCSQWH
Description: 4 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LCSQW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

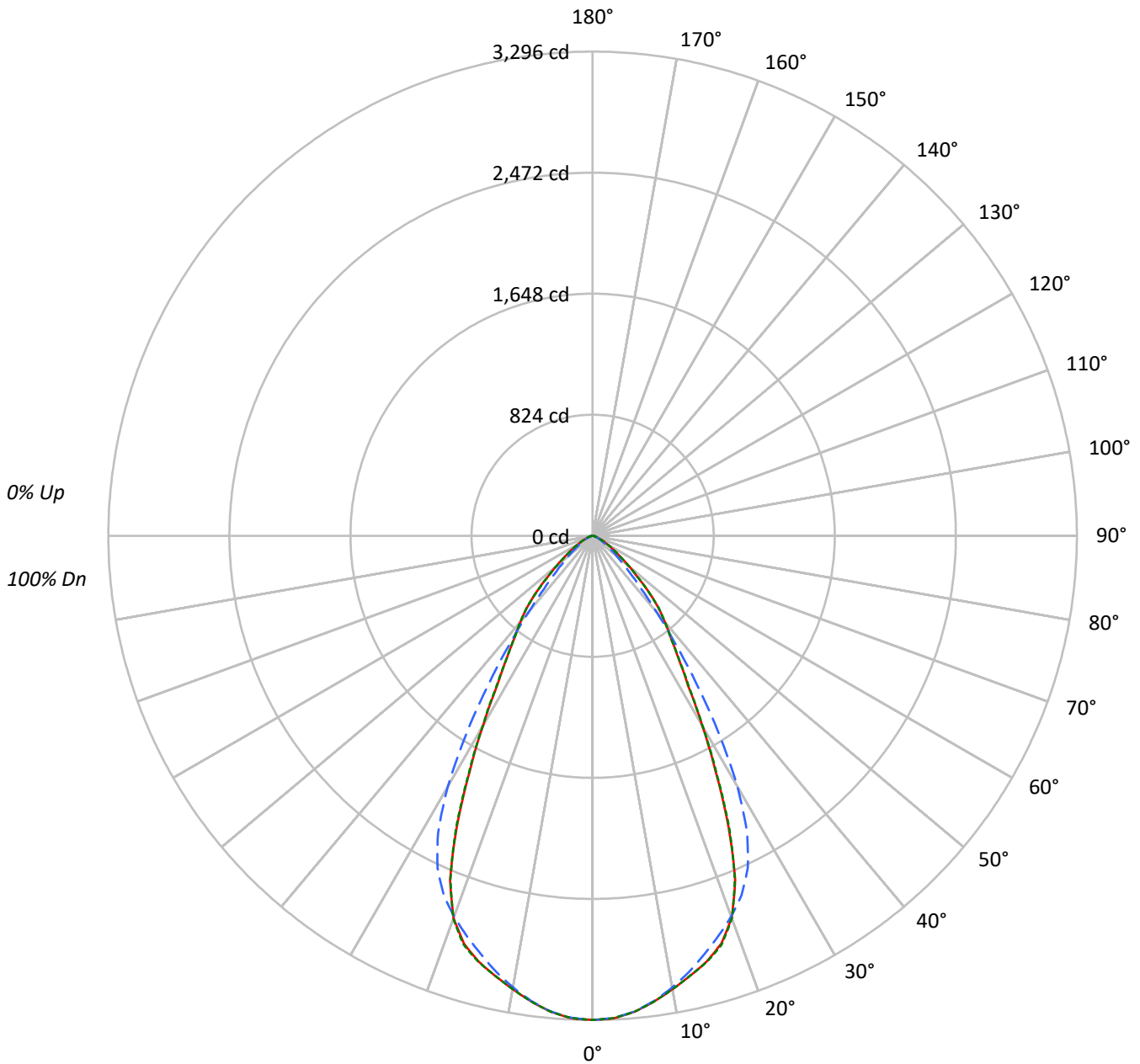
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3489.0 lumens
Efficiency: N/A
Efficacy: 59.7 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): 58.4
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	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°	318066	318066	318066
5°	315155	314951	315058
10°	307091	305866	307091
15°	299698	294294	300008
20°	284150	283082	284684
25°	233081	265957	234305
30°	166210	219712	166433
35°	119876	145590	120241
40°	96105	84593	96105
45°	73345	49370	72772
50°	48380	31523	48215
55°	32534	21162	32181
60°	21864	14435	22077
65°	14954	10206	14726
70°	9959	7335	9959
75°	6599	5443	6599
80°	4612	4056	4612
85°	3432	3432	3432



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.4	8.8
10°-20°	835.6	23.9
20°-30°	1044.6	29.9
30°-40°	702.7	20.1
40°-50°	371.0	10.6
50°-60°	150.8	4.3
60°-70°	55.9	1.6
70°-80°	18.1	0.5
80°-90°	3.9	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°	2186.6	62.7
0°-40°	2889.3	82.8
0°-60°	3411.1	97.8
0°-90°	3489.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3489.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3296	3296	3296	3296	3296	
5°	3254	3251	3252	3252	3253	307
15°	3000	2975	2946	2974	3003	841
25°	2189	2312	2498	2316	2201	985
35°	1018	1069	1236	1071	1021	655
45°	538	510	362	508	533	412
55°	193	162	126	162	191	179
65°	66	53	45	53	64	67
75°	18	16	15	16	18	21
85°	3	3	3	3	3	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3296.4	3296.4	3296.4	3296.4	3296.4
2.5°	3288.1	3286.1	3285.0	3285.0	3286.1
5°	3253.8	3250.7	3251.7	3251.7	3252.8
7.5°	3198.7	3197.7	3194.6	3198.7	3198.7
10°	3134.3	3129.1	3121.8	3130.1	3134.3
12.5°	3067.7	3052.2	3039.7	3052.2	3067.7
15°	3000.2	2975.2	2946.1	2974.2	3003.3
17.5°	2911.8	2886.9	2854.6	2892.1	2920.1
20°	2767.3	2769.4	2756.9	2767.3	2772.5
22.5°	2535.5	2582.3	2647.8	2583.3	2528.2
25°	2189.3	2312.0	2498.1	2316.1	2200.8
27.5°	1818.2	1974.1	2278.7	1983.5	1829.6
30°	1491.8	1630.0	1972.0	1639.4	1493.8
32.5°	1208.0	1310.9	1603.0	1323.4	1221.5
35°	1017.7	1068.7	1236.0	1070.7	1020.8
37.5°	872.2	872.2	917.9	876.4	868.0
40°	763.0	729.8	671.6	728.7	763.0
42.5°	661.2	611.3	487.6	609.2	663.2
45°	537.5	510.4	361.8	508.3	533.3
47.5°	412.7	394.0	272.4	391.9	415.8
50°	322.3	293.2	210.0	291.1	321.2
52.5°	247.4	216.2	162.2	216.2	245.3
55°	193.4	162.2	125.8	162.2	191.3
57.5°	148.7	123.7	95.6	121.6	147.6
60°	113.3	92.5	74.8	92.5	114.4
62.5°	86.3	70.7	57.2	69.7	85.2
65°	65.5	53.0	44.7	53.0	64.5
67.5°	47.8	39.5	34.3	39.5	48.9
70°	35.3	30.1	26.0	29.1	35.3
72.5°	26.0	21.8	19.8	21.8	26.0
75°	17.7	15.6	14.6	15.6	17.7
77.5°	12.5	11.4	10.4	11.4	12.5
80°	8.3	7.3	7.3	8.3	8.3
82.5°	5.2	5.2	5.2	5.2	5.2
85°	3.1	3.1	3.1	3.1	3.1
87.5°	2.1	2.1	2.1	2.1	2.1
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)