

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: FAIL-SAFE

Report Number: P555025

Luminaire Tested: **FUSL-12-2-LD4-2LO-40-UNV-82-84-EDD**

Issue Date: 7/16/2021

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: P555025
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2105-257-2)
Test Lab: INNOVATION CENTER
Issue Date: 7/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FUSL-12-2-LD4-2LO-40-UNV-82-84-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

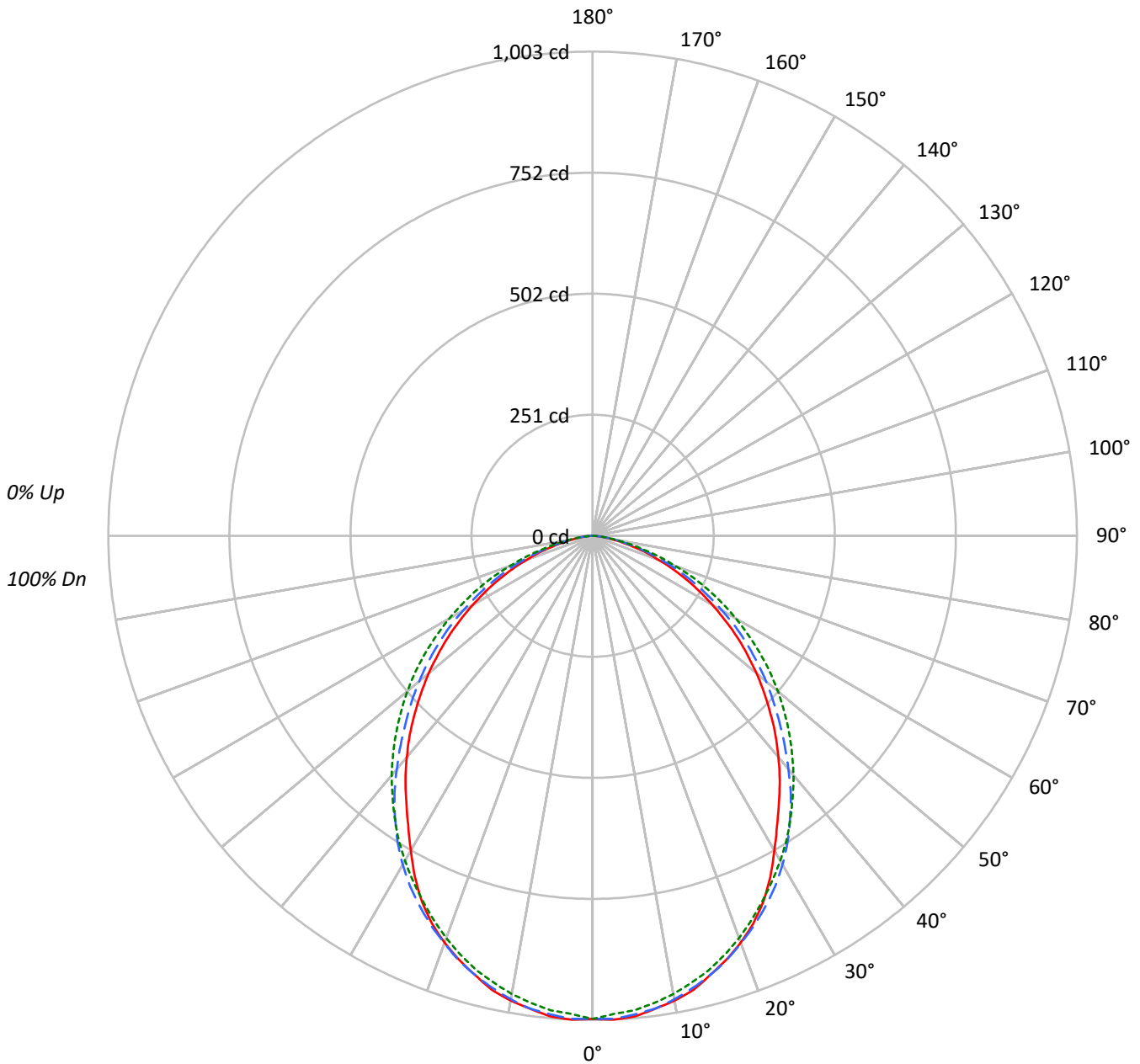
Lumens per Lamp: N/A
Luminaire Lumens: 2314.0 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
Input Voltage (V): NR
Input Current (A_{in}): 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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86																			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73																			
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63																			
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	61	56	54																			
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	47																			
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42																			
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	37																			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	34																			
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30																			
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5386	5386	5386
5°	5400	5378	5332
10°	5343	5328	5267
15°	5248	5248	5188
20°	5137	5144	5078
25°	4968	5030	4950
30°	4678	4888	4829
35°	4420	4686	4693
40°	4206	4432	4548
45°	3965	4164	4377
50°	3712	3924	4191
55°	3424	3651	3964
60°	3083	3331	3688
65°	2723	2962	3354
70°	2269	2522	2850
75°	1782	2015	2231
80°	1274	1420	1571
85°	834	834	784



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.2	4.1
10°-20°	264.7	11.4
20°-30°	386.8	16.7
30°-40°	439.1	19.0
40°-50°	423.9	18.3
50°-60°	349.7	15.1
60°-70°	232.8	10.1
70°-80°	104.2	4.5
80°-90°	18.6	0.8
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°	745.7	32.2
0°-40°	1184.8	51.2
0°-60°	1958.3	84.6
0°-90°	2314.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2314.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1001	1001	1001	1001	1001	
5°	1000	999	995	990	987	95
15°	942	944	942	938	931	266
25°	837	843	847	841	834	383
35°	673	682	713	717	714	422
45°	521	530	547	572	575	402
55°	365	371	389	411	422	326
65°	214	220	233	249	263	212
75°	86	90	97	102	107	94
85°	14	14	14	13	13	18
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1000.7	1000.7	1000.7	1000.7	1000.7
2.5°	1003.4	1003.8	1001.5	995.4	991.5
5°	999.6	999.2	995.4	990.0	986.9
7.5°	988.4	989.2	988.1	980.4	976.1
10°	977.7	978.1	975.0	968.8	963.8
12.5°	963.8	963.5	959.2	956.1	948.1
15°	941.9	944.2	941.9	937.7	931.2
17.5°	920.8	920.8	922.3	915.0	910.0
20°	896.9	898.1	898.1	892.3	886.6
22.5°	869.3	872.7	873.9	867.7	860.8
25°	836.6	843.1	847.0	840.8	833.5
27.5°	797.0	807.0	818.5	813.9	805.8
30°	752.8	767.4	786.6	782.8	777.0
32.5°	710.9	725.5	752.0	750.5	747.4
35°	672.8	682.0	713.2	717.0	714.3
37.5°	636.7	645.1	674.3	683.2	680.9
40°	598.6	607.8	630.9	646.7	647.4
42.5°	560.9	569.8	588.6	611.3	611.3
45°	520.9	529.8	547.1	572.1	575.1
47.5°	481.7	491.0	507.9	532.9	537.9
50°	443.3	451.7	468.7	492.9	500.6
52.5°	403.3	412.5	429.1	451.4	462.5
55°	364.9	371.0	389.1	410.6	422.5
57.5°	324.9	330.6	351.0	369.5	381.8
60°	286.4	293.7	309.5	328.3	342.6
62.5°	249.5	257.2	270.7	287.2	303.3
65°	213.8	219.5	232.6	249.1	263.4
67.5°	179.2	184.2	197.2	208.8	223.8
70°	144.2	150.7	160.3	171.5	181.1
72.5°	116.1	118.8	126.9	134.9	144.9
75°	85.7	90.3	96.9	101.5	107.3
77.5°	61.5	64.2	68.0	71.9	77.3
80°	41.1	42.3	45.8	46.5	50.7
82.5°	25.0	25.8	26.5	26.9	28.4
85°	13.5	13.5	13.5	12.7	12.7
87.5°	7.7	7.7	6.5	5.4	3.8
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)