

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: P553987

Luminaire Tested: **FUSL-12-2-LD4-1HI-40-UNV-81-85-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: P553987
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-LD4-1HI-40-UNV-81-85-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

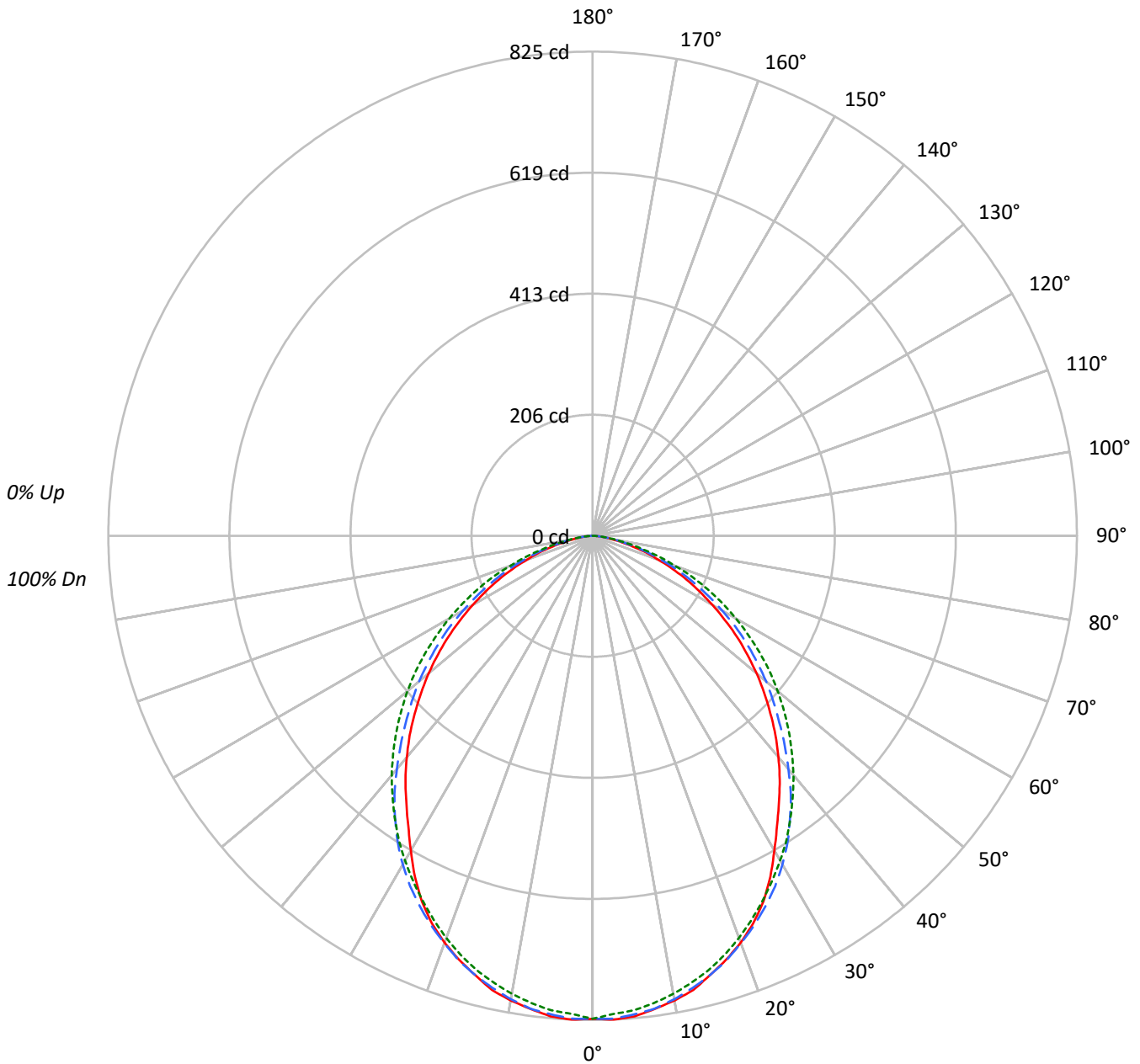
Lumens per Lamp: N/A
Luminaire Lumens: 1903.0 lumens
Efficiency: N/A
Efficacy: 88.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 21.6
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°	4429	4429	4429
5°	4441	4422	4385
10°	4394	4382	4332
15°	4316	4316	4267
20°	4225	4230	4176
25°	4086	4136	4071
30°	3847	4020	3971
35°	3635	3853	3859
40°	3459	3645	3740
45°	3261	3424	3600
50°	3052	3227	3447
55°	2815	3003	3261
60°	2535	2739	3032
65°	2239	2436	2758
70°	1866	2074	2343
75°	1466	1657	1834
80°	1048	1165	1292
85°	685	685	642



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.5	4.1
10°-20°	217.7	11.4
20°-30°	318.1	16.7
30°-40°	361.1	19.0
40°-50°	348.6	18.3
50°-60°	287.6	15.1
60°-70°	191.5	10.1
70°-80°	85.7	4.5
80°-90°	15.3	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°	613.3	32.2
0°-40°	974.4	51.2
0°-60°	1610.5	84.6
0°-90°	1903.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1903.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	823	823	823	823	823	
5°	822	822	819	814	812	78
15°	775	776	775	771	766	218
25°	688	693	696	692	686	315
35°	553	561	586	590	587	347
45°	428	436	450	470	473	331
55°	300	305	320	338	348	268
65°	176	180	191	205	217	174
75°	70	74	80	84	88	77
85°	11	11	11	10	10	15
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	823.0	823.0	823.0	823.0	823.0
2.5°	825.2	825.5	823.6	818.6	815.4
5°	822.0	821.7	818.6	814.1	811.6
7.5°	812.9	813.5	812.6	806.2	802.8
10°	804.0	804.3	801.8	796.8	792.6
12.5°	792.6	792.3	788.9	786.3	779.7
15°	774.6	776.5	774.6	771.1	765.8
17.5°	757.2	757.2	758.5	752.5	748.4
20°	737.6	738.6	738.6	733.8	729.1
22.5°	714.9	717.7	718.7	713.6	707.9
25°	688.0	693.4	696.5	691.5	685.5
27.5°	655.4	663.6	673.1	669.3	662.7
30°	619.1	631.1	646.9	643.7	639.0
32.5°	584.6	596.6	618.4	617.2	614.6
35°	553.3	560.9	586.5	589.7	587.4
37.5°	523.6	530.5	554.6	561.8	559.9
40°	492.3	499.9	518.8	531.8	532.4
42.5°	461.3	468.6	484.1	502.7	502.7
45°	428.4	435.7	449.9	470.5	473.0
47.5°	396.2	403.8	417.7	438.2	442.3
50°	364.5	371.5	385.4	405.3	411.7
52.5°	331.7	339.3	352.8	371.2	380.4
55°	300.0	305.1	320.0	337.7	347.5
57.5°	267.2	271.9	288.7	303.8	314.0
60°	235.5	241.6	254.5	270.0	281.7
62.5°	205.2	211.5	222.6	236.2	249.5
65°	175.8	180.5	191.3	204.9	216.6
67.5°	147.3	151.4	162.2	171.7	184.0
70°	118.6	123.9	131.8	141.0	148.9
72.5°	95.5	97.7	104.3	111.0	119.2
75°	70.5	74.3	79.7	83.5	88.2
77.5°	50.6	52.8	56.0	59.1	63.6
80°	33.8	34.8	37.6	38.3	41.7
82.5°	20.6	21.2	21.8	22.1	23.4
85°	11.1	11.1	11.1	10.4	10.4
87.5°	6.3	6.3	5.4	4.4	3.2
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)