

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: P554028

Luminaire Tested: **FUSL-12-2-LD4-1HI-40-UNV-93-96-EDD-90**

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: P554028
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-93-96-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

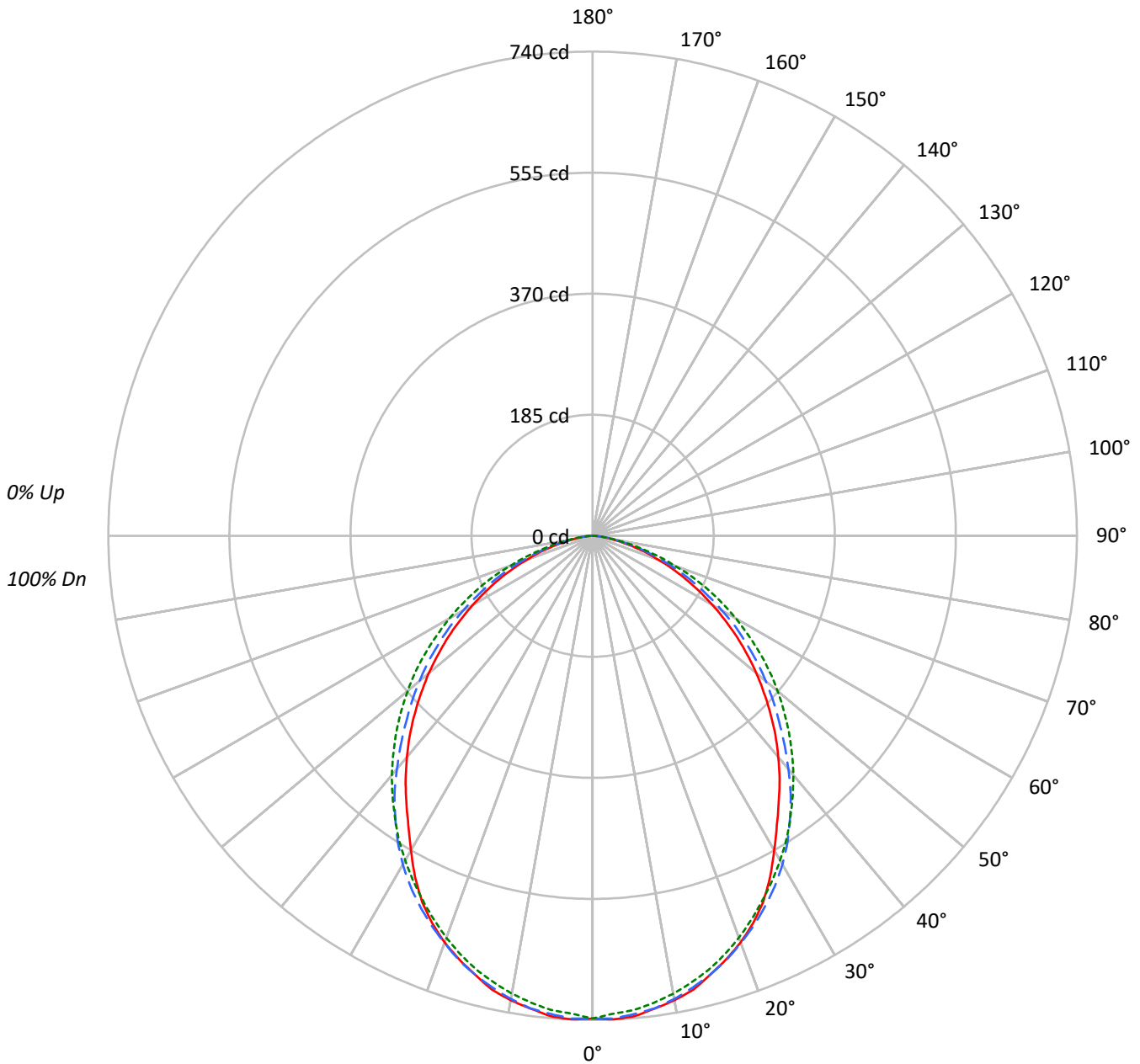
Lumens per Lamp: N/A
Luminaire Lumens: 1706.0 lumens
Efficiency: N/A
Efficacy: 79.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	3971	3971	3971
5°	3982	3964	3931
10°	3939	3928	3883
15°	3869	3869	3825
20°	3788	3792	3743
25°	3663	3708	3649
30°	3449	3604	3560
35°	3259	3455	3460
40°	3100	3268	3353
45°	2923	3070	3227
50°	2736	2893	3090
55°	2524	2691	2923
60°	2273	2456	2718
65°	2007	2184	2473
70°	1673	1860	2101
75°	1314	1485	1645
80°	939	1044	1159
85°	611	611	580



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.5	4.1
10°-20°	195.1	11.4
20°-30°	285.2	16.7
30°-40°	323.7	19.0
40°-50°	312.5	18.3
50°-60°	257.8	15.1
60°-70°	171.7	10.1
70°-80°	76.8	4.5
80°-90°	13.7	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°	549.8	32.2
0°-40°	873.5	51.2
0°-60°	1443.8	84.6
0°-90°	1706.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1706.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	738	738	738	738	738	
5°	737	737	734	730	728	70
15°	694	696	694	691	686	196
25°	617	622	624	620	614	282
35°	496	503	526	529	527	311
45°	384	391	403	422	424	296
55°	269	274	287	303	312	240
65°	158	162	172	184	194	156
75°	63	67	71	75	79	69
85°	10	10	10	9	9	13
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	737.8	737.8	737.8	737.8	737.8
2.5°	739.8	740.1	738.4	733.8	731.0
5°	737.0	736.7	733.8	729.9	727.6
7.5°	728.7	729.3	728.4	722.8	719.7
10°	720.8	721.1	718.8	714.3	710.6
12.5°	710.6	710.3	707.2	704.9	699.0
15°	694.4	696.1	694.4	691.3	686.5
17.5°	678.8	678.8	680.0	674.6	670.9
20°	661.3	662.1	662.1	657.9	653.6
22.5°	640.9	643.4	644.3	639.7	634.6
25°	616.8	621.6	624.4	619.9	614.5
27.5°	587.6	594.9	603.4	600.0	594.1
30°	555.0	565.8	579.9	577.1	572.8
32.5°	524.1	534.9	554.4	553.3	551.0
35°	496.0	502.8	525.8	528.6	526.6
37.5°	469.4	475.6	497.2	503.7	502.0
40°	441.3	448.1	465.1	476.8	477.3
42.5°	413.5	420.1	434.0	450.7	450.7
45°	384.1	390.6	403.3	421.8	424.0
47.5°	355.2	362.0	374.4	392.9	396.5
50°	326.8	333.0	345.5	363.4	369.0
52.5°	297.3	304.1	316.3	332.8	341.0
55°	269.0	273.5	286.8	302.7	311.5
57.5°	239.5	243.8	258.8	272.4	281.5
60°	211.2	216.6	228.2	242.1	252.5
62.5°	184.0	189.6	199.5	211.7	223.6
65°	157.6	161.8	171.5	183.7	194.2
67.5°	132.1	135.8	145.4	153.9	165.0
70°	106.3	111.1	118.2	126.4	133.5
72.5°	85.6	87.6	93.5	99.5	106.9
75°	63.2	66.6	71.4	74.8	79.1
77.5°	45.4	47.3	50.2	53.0	57.0
80°	30.3	31.2	33.7	34.3	37.4
82.5°	18.4	19.0	19.6	19.8	21.0
85°	9.9	9.9	9.9	9.4	9.4
87.5°	5.7	5.7	4.8	4.0	2.8
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)