

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: P553895

Luminaire Tested: **FUSL-12-2-LD4-1HI-30-UNV-93-87-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: P553895
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-30-UNV-93-87-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE
AND .375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT
LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

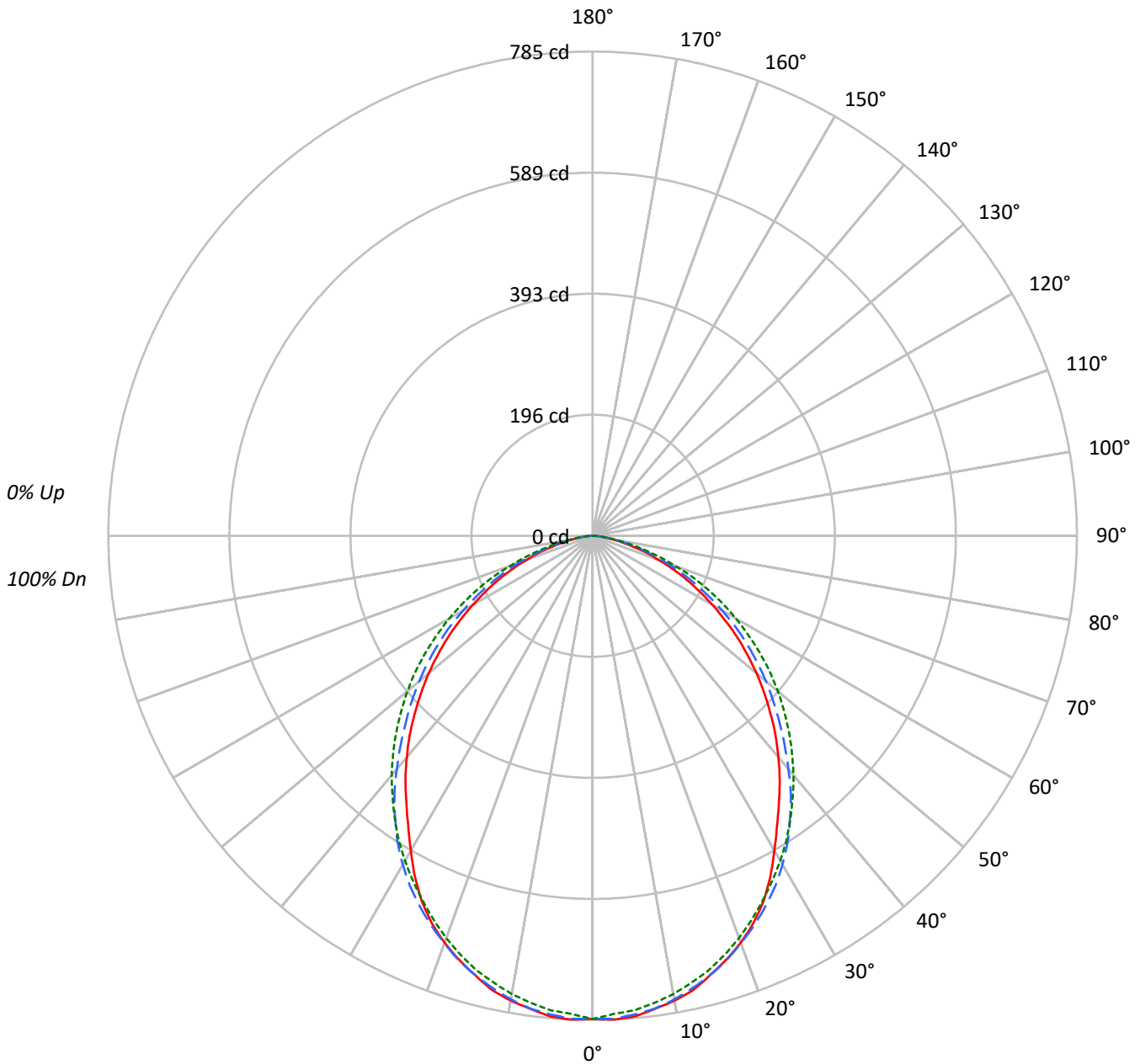
Lumens per Lamp: N/A
Luminaire Lumens: 1811.0 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	4215	4215	4215
5°	4226	4209	4173
10°	4182	4170	4122
15°	4108	4108	4061
20°	4021	4026	3974
25°	3888	3937	3874
30°	3661	3826	3779
35°	3460	3667	3673
40°	3292	3469	3560
45°	3103	3259	3426
50°	2905	3071	3280
55°	2679	2857	3103
60°	2413	2607	2886
65°	2131	2318	2625
70°	1775	1975	2230
75°	1395	1576	1745
80°	998	1110	1230
85°	648	648	611



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.7	4.1
10°-20°	207.2	11.4
20°-30°	302.7	16.7
30°-40°	343.6	19.0
40°-50°	331.7	18.3
50°-60°	273.7	15.1
60°-70°	182.2	10.1
70°-80°	81.5	4.5
80°-90°	14.6	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°	583.6	32.2
0°-40°	927.3	51.2
0°-60°	1532.6	84.6
0°-90°	1811.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1811.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	783	783	783	783	783	
5°	782	782	779	775	772	74
15°	737	739	737	734	729	208
25°	655	660	663	658	652	300
35°	527	534	558	561	559	330
45°	408	415	428	448	450	315
55°	286	290	304	321	331	255
65°	167	172	182	195	206	166
75°	67	71	76	79	84	73
85°	10	10	10	10	10	14
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	783.2	783.2	783.2	783.2	783.2
2.5°	785.3	785.6	783.8	779.0	776.0
5°	782.3	782.0	779.0	774.8	772.4
7.5°	773.6	774.2	773.3	767.3	764.0
10°	765.2	765.5	763.1	758.2	754.3
12.5°	754.3	754.0	750.7	748.3	742.0
15°	737.2	739.0	737.2	733.9	728.8
17.5°	720.6	720.6	721.8	716.1	712.2
20°	702.0	702.9	702.9	698.4	693.8
22.5°	680.3	683.0	683.9	679.1	673.7
25°	654.7	659.8	662.9	658.0	652.3
27.5°	623.7	631.6	640.6	637.0	630.7
30°	589.1	600.6	615.6	612.6	608.1
32.5°	556.3	567.8	588.5	587.3	584.9
35°	526.6	533.8	558.1	561.2	559.0
37.5°	498.3	504.9	527.8	534.7	532.9
40°	468.5	475.7	493.8	506.1	506.7
42.5°	439.0	445.9	460.7	478.4	478.4
45°	407.7	414.6	428.2	447.7	450.1
47.5°	377.0	384.2	397.5	417.0	420.9
50°	346.9	353.5	366.8	385.7	391.8
52.5°	315.6	322.9	335.8	353.2	362.0
55°	285.5	290.4	304.5	321.3	330.7
57.5°	254.3	258.8	274.7	289.2	298.8
60°	224.2	229.9	242.2	257.0	268.1
62.5°	195.3	201.3	211.8	224.8	237.4
65°	167.3	171.8	182.0	195.0	206.1
67.5°	140.2	144.1	154.4	163.4	175.1
70°	112.8	117.9	125.5	134.2	141.7
72.5°	90.9	93.0	99.3	105.6	113.4
75°	67.1	70.7	75.8	79.4	83.9
77.5°	48.1	50.2	53.3	56.3	60.5
80°	32.2	33.1	35.8	36.4	39.7
82.5°	19.6	20.2	20.8	21.1	22.3
85°	10.5	10.5	10.5	9.9	9.9
87.5°	6.0	6.0	5.1	4.2	3.0
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)