

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: P555818

Luminaire Tested: **FUSL-12-2-LD4-3LO-40-UNV-93-94-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: P555818
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-LD4-3LO-40-UNV-93-94-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE
AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND
4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

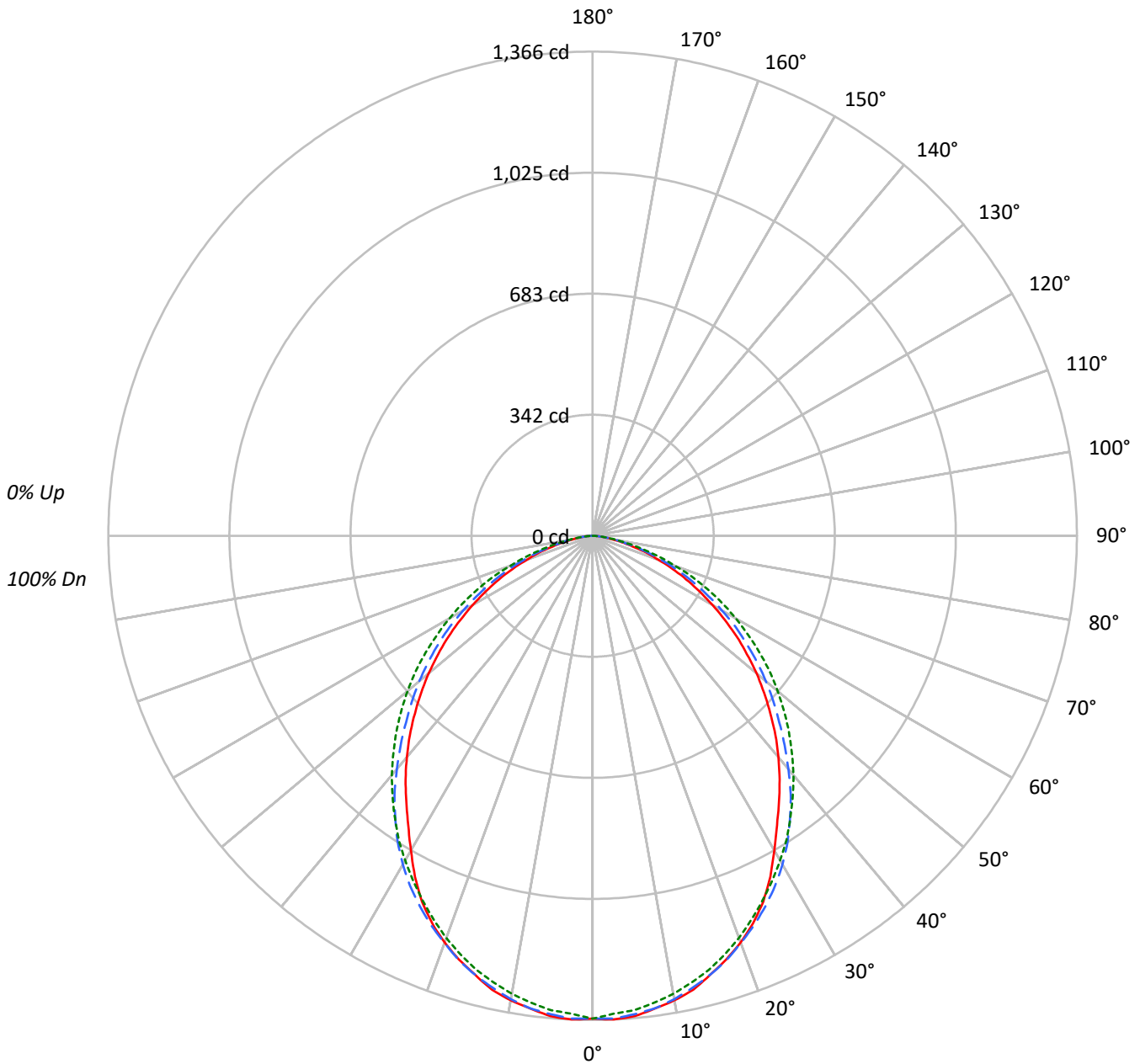
Lumens per Lamp: N/A
Luminaire Lumens: 3150.0 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
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°	7332	7332	7332
5°	7351	7320	7258
10°	7273	7253	7171
15°	7144	7144	7063
20°	6993	7002	6912
25°	6763	6847	6738
30°	6368	6655	6573
35°	6018	6378	6389
40°	5725	6034	6192
45°	5397	5668	5959
50°	5052	5342	5705
55°	4661	4969	5397
60°	4197	4535	5019
65°	3706	4032	4565
70°	3089	3434	3879
75°	2427	2743	3036
80°	1736	1931	2142
85°	1130	1130	1068



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.3	4.1
10°-20°	360.3	11.4
20°-30°	526.6	16.7
30°-40°	597.7	19.0
40°-50°	577.0	18.3
50°-60°	476.0	15.1
60°-70°	317.0	10.1
70°-80°	141.8	4.5
80°-90°	25.4	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°	1015.2	32.2
0°-40°	1612.9	51.2
0°-60°	2665.8	84.6
0°-90°	3150.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3150.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1362	1362	1362	1362	1362	
5°	1361	1360	1355	1348	1344	129
15°	1282	1285	1282	1276	1268	361
25°	1139	1148	1153	1145	1135	522
35°	916	928	971	976	972	574
45°	709	721	745	779	783	547
55°	497	505	530	559	575	443
65°	291	299	317	339	358	289
75°	117	123	132	138	146	128
85°	18	18	18	17	17	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1362.3	1362.3	1362.3	1362.3	1362.3
2.5°	1366.0	1366.5	1363.3	1355.0	1349.7
5°	1360.7	1360.2	1355.0	1347.6	1343.5
7.5°	1345.5	1346.6	1345.0	1334.6	1328.8
10°	1330.9	1331.4	1327.2	1318.9	1312.1
12.5°	1312.1	1311.5	1305.8	1301.6	1290.6
15°	1282.2	1285.4	1282.2	1276.5	1267.6
17.5°	1253.4	1253.4	1255.5	1245.6	1238.8
20°	1221.0	1222.6	1222.6	1214.7	1206.9
22.5°	1183.3	1188.0	1189.6	1181.2	1171.8
25°	1138.8	1147.7	1153.0	1144.6	1134.6
27.5°	1084.9	1098.5	1114.2	1107.9	1097.0
30°	1024.7	1044.6	1070.8	1065.6	1057.7
32.5°	967.7	987.6	1023.7	1021.6	1017.4
35°	915.9	928.4	970.8	976.1	972.4
37.5°	866.7	878.2	918.0	930.0	926.9
40°	814.9	827.4	858.8	880.3	881.3
42.5°	763.6	775.6	801.3	832.1	832.1
45°	709.1	721.2	744.7	778.8	782.9
47.5°	655.8	668.3	691.4	725.4	732.2
50°	603.4	614.9	638.0	670.9	681.4
52.5°	549.0	561.6	584.1	614.4	629.6
55°	496.7	505.0	529.6	558.9	575.2
57.5°	442.2	450.1	477.8	502.9	519.7
60°	389.9	399.8	421.3	446.9	466.3
62.5°	339.7	350.1	368.4	390.9	412.9
65°	291.0	298.8	316.6	339.1	358.5
67.5°	243.9	250.7	268.5	284.2	304.6
70°	196.3	205.2	218.2	233.4	246.5
72.5°	158.1	161.7	172.7	183.7	197.3
75°	116.7	123.0	131.9	138.2	146.0
77.5°	83.7	87.4	92.6	97.9	105.2
80°	56.0	57.6	62.3	63.3	69.1
82.5°	34.0	35.1	36.1	36.6	38.7
85°	18.3	18.3	18.3	17.3	17.3
87.5°	10.5	10.5	8.9	7.3	5.2
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)