

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: P554762

Luminaire Tested: **FUSL-12-2-LD4-2HI-40-UNV-81-94-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: P554762
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-LD4-2HI-40-UNV-81-94-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 4000K CCT LEDES
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

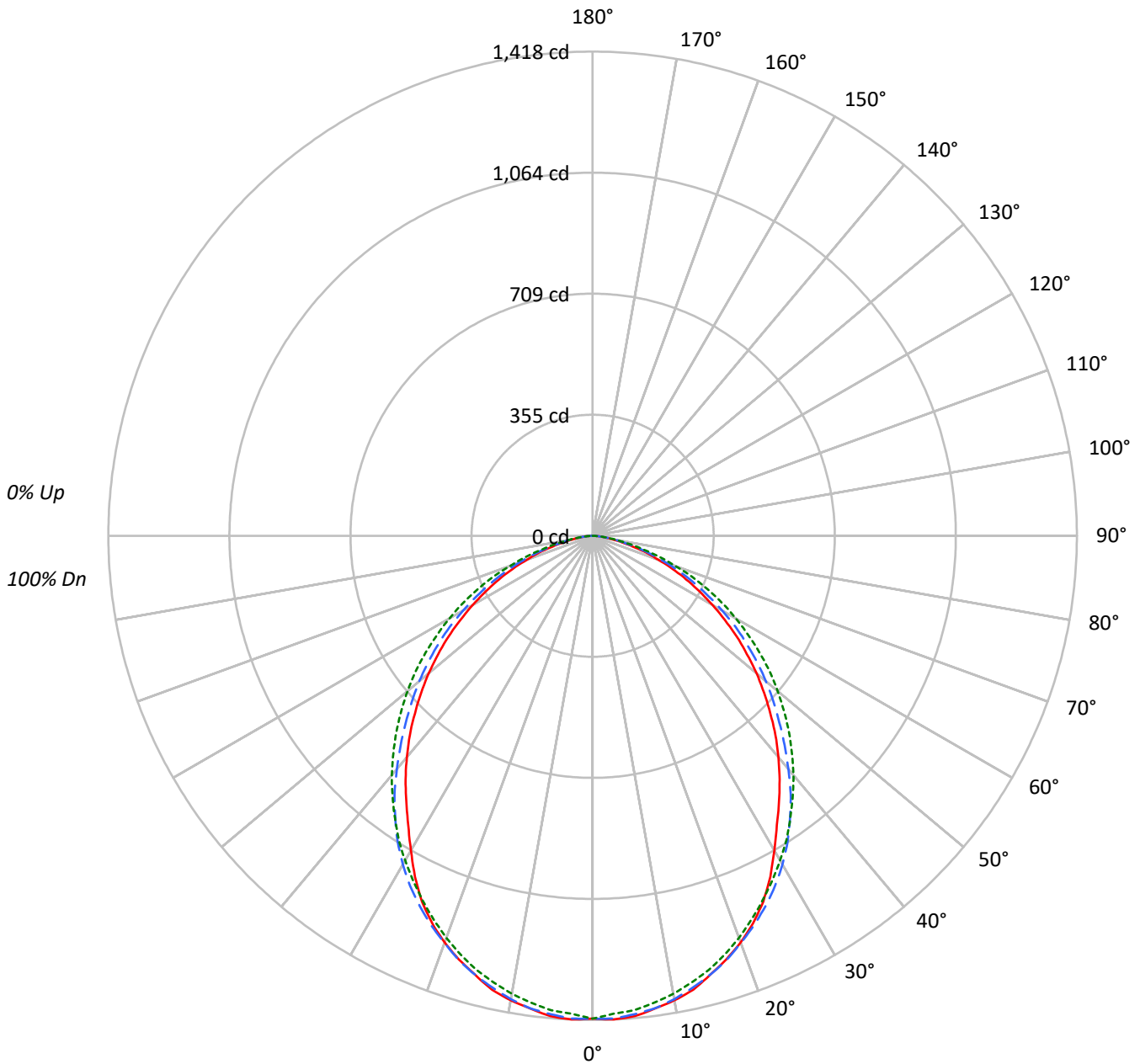
Lumens per Lamp: N/A
Luminaire Lumens: 3270.0 lumens
Efficiency: N/A
Efficacy: 75.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 43.2
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°	7611	7611	7611
5°	7632	7599	7534
10°	7550	7530	7443
15°	7417	7417	7332
20°	7259	7269	7175
25°	7020	7108	6995
30°	6611	6908	6824
35°	6247	6621	6632
40°	5943	6263	6428
45°	5603	5884	6186
50°	5245	5545	5923
55°	4838	5159	5603
60°	4357	4708	5211
65°	3847	4186	4740
70°	3205	3566	4027
75°	2520	2847	3152
80°	1801	2005	2222
85°	1173	1173	1105



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.2	4.1
10°-20°	374.1	11.4
20°-30°	546.6	16.7
30°-40°	620.5	19.0
40°-50°	599.0	18.3
50°-60°	494.1	15.1
60°-70°	329.0	10.1
70°-80°	147.2	4.5
80°-90°	26.3	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°	1053.8	32.2
0°-40°	1674.3	51.2
0°-60°	2767.4	84.6
0°-90°	3270.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3270.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1414	1414	1414	1414	1414	
5°	1413	1412	1407	1399	1395	134
15°	1331	1334	1331	1325	1316	375
25°	1182	1191	1197	1188	1178	541
35°	951	964	1008	1013	1009	596
45°	736	749	773	808	813	568
55°	516	524	550	580	597	460
65°	302	310	329	352	372	300
75°	121	128	137	143	152	132
85°	19	19	19	18	18	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1414.2	1414.2	1414.2	1414.2	1414.2
2.5°	1418.0	1418.5	1415.3	1406.6	1401.2
5°	1412.6	1412.0	1406.6	1399.0	1394.6
7.5°	1396.8	1397.9	1396.3	1385.4	1379.4
10°	1381.6	1382.1	1377.8	1369.1	1362.0
12.5°	1362.0	1361.5	1355.5	1351.2	1339.8
15°	1331.1	1334.3	1331.1	1325.1	1315.9
17.5°	1301.2	1301.2	1303.4	1293.0	1286.0
20°	1267.5	1269.1	1269.1	1261.0	1252.8
22.5°	1228.4	1233.3	1234.9	1226.2	1216.4
25°	1182.2	1191.4	1196.9	1188.2	1177.9
27.5°	1126.2	1140.4	1156.7	1150.2	1138.7
30°	1063.8	1084.4	1111.6	1106.1	1098.0
32.5°	1004.5	1025.2	1062.7	1060.5	1056.2
35°	950.8	963.8	1007.8	1013.2	1009.4
37.5°	899.7	911.6	952.9	965.4	962.2
40°	845.9	858.9	891.5	913.8	914.9
42.5°	792.7	805.2	831.8	863.8	863.8
45°	736.2	748.7	773.1	808.4	812.8
47.5°	680.7	693.8	717.7	753.0	760.1
50°	626.4	638.4	662.3	696.5	707.4
52.5°	569.9	583.0	606.3	637.8	653.6
55°	515.6	524.3	549.8	580.2	597.1
57.5°	459.1	467.2	496.0	522.1	539.5
60°	404.8	415.1	437.4	464.0	484.1
62.5°	352.6	363.5	382.5	405.8	428.7
65°	302.1	310.2	328.7	352.1	372.2
67.5°	253.2	260.2	278.7	295.0	316.2
70°	203.7	213.0	226.6	242.3	255.9
72.5°	164.1	167.9	179.3	190.7	204.8
75°	121.2	127.7	136.9	143.4	151.6
77.5°	86.9	90.7	96.2	101.6	109.2
80°	58.1	59.8	64.7	65.7	71.7
82.5°	35.3	36.4	37.5	38.0	40.2
85°	19.0	19.0	19.0	17.9	17.9
87.5°	10.9	10.9	9.2	7.6	5.4
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)