

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: P555440

Luminaire Tested: **FUSL-12-2-LD4-3HI-35-UNV-80-84-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: P555440  
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-LD4-3HI-35-UNV-80-84-EDD-90  
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND  
.125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

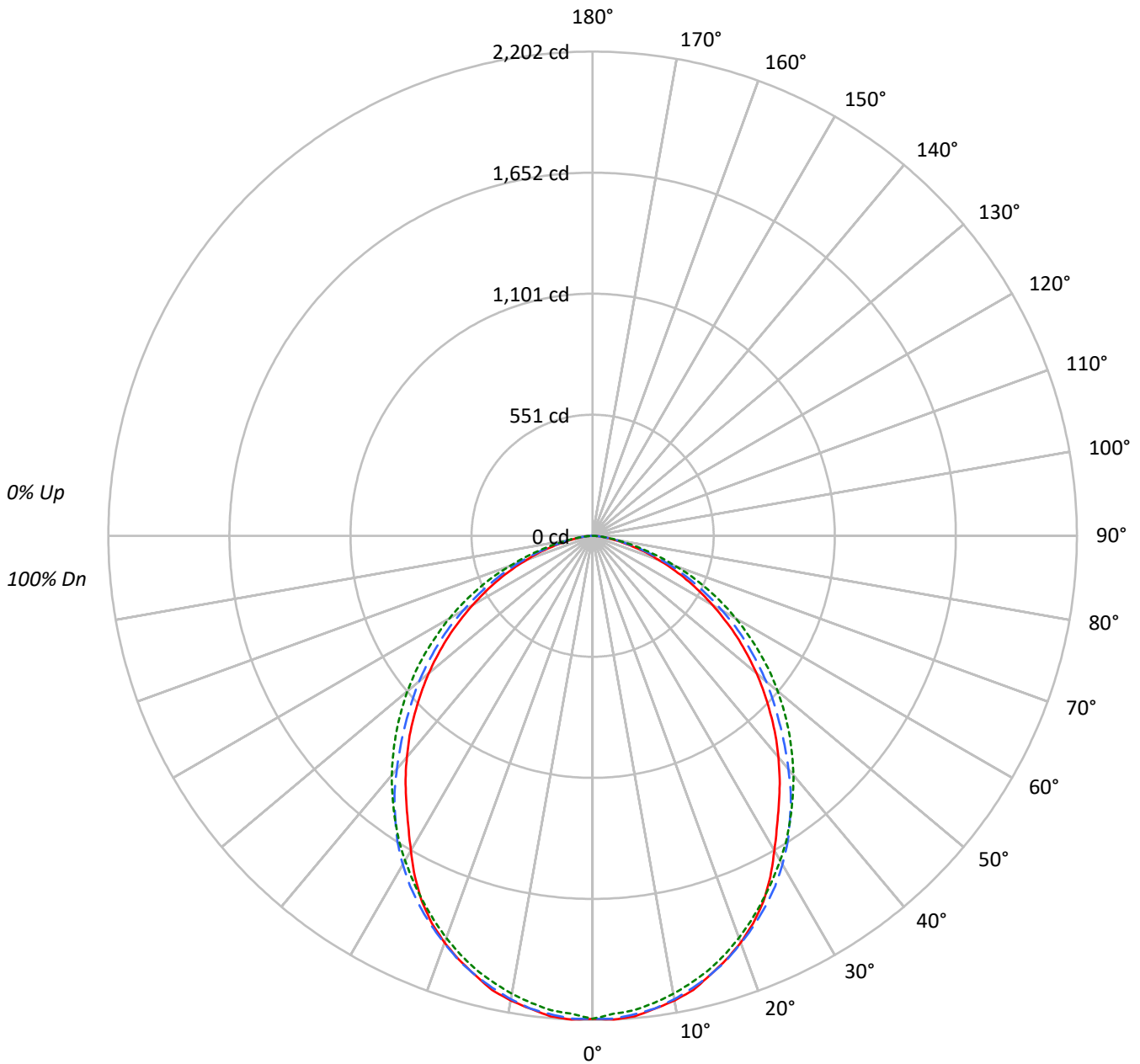
Lumens per Lamp: N/A  
Luminaire Lumens: 5079.0 lumens  
Efficiency: N/A  
Efficacy: 78.4 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 64.8  
Input Voltage (V): NR  
Input Current (Ain): 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°	11821	11821	11821
5°	11853	11803	11703
10°	11727	11695	11561
15°	11519	11519	11388
20°	11275	11290	11145
25°	10904	11039	10864
30°	10268	10729	10598
35°	9702	10284	10301
40°	9231	9729	9983
45°	8703	9140	9608
50°	8147	8613	9199
55°	7514	8013	8702
60°	6767	7312	8093
65°	5975	6501	7361
70°	4979	5537	6255
75°	3913	4421	4895
80°	2799	3112	3453
85°	1822	1822	1717



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	206.8	4.1
10°-20°	581.0	11.4
20°-30°	849.0	16.7
30°-40°	963.7	19.0
40°-50°	930.3	18.3
50°-60°	767.4	15.1
60°-70°	511.1	10.1
70°-80°	228.7	4.5
80°-90°	40.9	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°	1636.8	32.2
0°-40°	2600.5	51.2
0°-60°	4298.3	84.6
0°-90°	5079.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5079.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2196	2196	2196	2196	2196	
5°	2194	2193	2185	2173	2166	208
15°	2067	2072	2067	2058	2044	583
25°	1836	1851	1859	1846	1830	841
35°	1477	1497	1565	1574	1568	925
45°	1143	1163	1201	1256	1262	882
55°	801	814	854	901	927	715
65°	469	482	510	547	578	465
75°	188	198	213	223	235	206
85°	30	30	30	28	28	40
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2196.5	2196.5	2196.5	2196.5	2196.5
2.5°	2202.4	2203.3	2198.2	2184.7	2176.3
5°	2194.0	2193.2	2184.7	2172.9	2166.2
7.5°	2169.5	2171.2	2168.7	2151.8	2142.5
10°	2145.9	2146.7	2140.0	2126.5	2115.5
12.5°	2115.5	2114.7	2105.4	2098.6	2080.9
15°	2067.4	2072.5	2067.4	2058.1	2043.8
17.5°	2021.0	2021.0	2024.4	2008.4	1997.4
20°	1968.7	1971.2	1971.2	1958.6	1945.9
22.5°	1907.9	1915.5	1918.1	1904.6	1889.4
25°	1836.2	1850.6	1859.0	1845.5	1829.5
27.5°	1749.3	1771.2	1796.6	1786.4	1768.7
30°	1652.3	1684.3	1726.5	1718.1	1705.4
32.5°	1560.3	1592.3	1650.6	1647.2	1640.4
35°	1476.7	1497.0	1565.3	1573.8	1567.9
37.5°	1397.4	1416.0	1480.1	1499.5	1494.5
40°	1313.9	1334.1	1384.8	1419.4	1421.0
42.5°	1231.2	1250.6	1291.9	1341.7	1341.7
45°	1143.4	1162.8	1200.8	1255.6	1262.4
47.5°	1057.3	1077.6	1114.7	1169.6	1180.5
50°	973.0	991.5	1028.7	1081.8	1098.7
52.5°	885.2	905.4	941.7	990.7	1015.1
55°	800.8	814.3	854.0	901.2	927.4
57.5°	713.1	725.7	770.4	810.9	837.9
60°	628.7	644.7	679.3	720.6	751.9
62.5°	547.7	564.5	594.1	630.4	665.8
65°	469.2	481.8	510.5	546.8	578.0
67.5°	393.2	404.2	432.9	458.2	491.1
70°	316.4	330.8	351.9	376.4	397.5
72.5°	254.8	260.7	278.5	296.2	318.1
75°	188.2	198.3	212.6	222.8	235.4
77.5°	135.0	140.9	149.4	157.8	169.6
80°	90.3	92.8	100.4	102.1	111.4
82.5°	54.9	56.5	58.2	59.1	62.4
85°	29.5	29.5	29.5	27.8	27.8
87.5°	16.9	16.9	14.3	11.8	8.4
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)