

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: P554788

Luminaire Tested: **FUSL-12-2-LD4-2HI-40-UNV-93-86-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: P554788
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-93-86-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

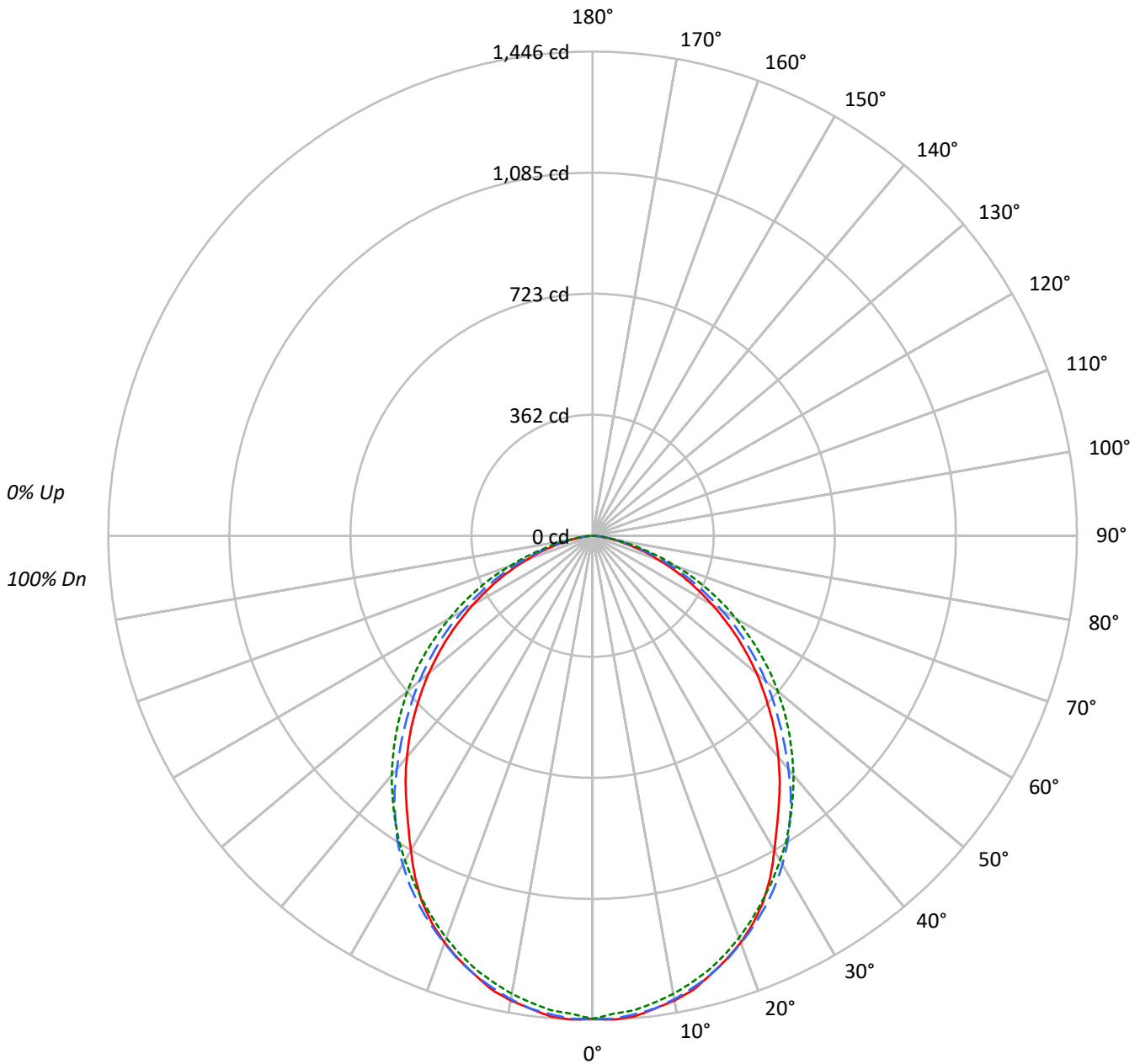
Lumens per Lamp: N/A
Luminaire Lumens: 3335.0 lumens
Efficiency: N/A
Efficacy: 77.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 43.2
Input Voltage (V): NR
Input Current (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°	7762	7762	7762
5°	7783	7750	7685
10°	7701	7679	7591
15°	7564	7564	7477
20°	7404	7413	7318
25°	7160	7249	7134
30°	6742	7045	6959
35°	6371	6753	6764
40°	6061	6388	6556
45°	5715	6001	6309
50°	5349	5655	6040
55°	4934	5261	5713
60°	4443	4801	5314
65°	3924	4269	4834
70°	3270	3637	4107
75°	2570	2903	3215
80°	1838	2042	2266
85°	1198	1198	1130



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.8	4.1
10°-20°	381.5	11.4
20°-30°	557.5	16.7
30°-40°	632.8	19.0
40°-50°	610.9	18.3
50°-60°	503.9	15.1
60°-70°	335.6	10.1
70°-80°	150.2	4.5
80°-90°	26.9	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°	1074.8	32.2
0°-40°	1707.6	51.2
0°-60°	2822.4	84.6
0°-90°	3335.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3335.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1442	1442	1442	1442	1442	
5°	1441	1440	1434	1427	1422	136
15°	1358	1361	1358	1351	1342	383
25°	1206	1215	1221	1212	1201	552
35°	970	983	1028	1033	1030	608
45°	751	764	788	824	829	579
55°	526	535	561	592	609	469
65°	308	316	335	359	380	305
75°	124	130	140	146	155	135
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°	1442.3	1442.3	1442.3	1442.3	1442.3
2.5°	1446.2	1446.7	1443.4	1434.5	1429.0
5°	1440.6	1440.1	1434.5	1426.8	1422.4
7.5°	1424.6	1425.7	1424.0	1412.9	1406.8
10°	1409.1	1409.6	1405.2	1396.3	1389.1
12.5°	1389.1	1388.6	1382.5	1378.0	1366.4
15°	1357.5	1360.8	1357.5	1351.4	1342.0
17.5°	1327.1	1327.1	1329.3	1318.7	1311.5
20°	1292.7	1294.4	1294.4	1286.0	1277.7
22.5°	1252.8	1257.8	1259.5	1250.6	1240.6
25°	1205.7	1215.1	1220.7	1211.8	1201.3
27.5°	1148.6	1163.0	1179.7	1173.0	1161.4
30°	1084.9	1106.0	1133.7	1128.1	1119.8
32.5°	1024.5	1045.6	1083.8	1081.6	1077.2
35°	969.7	983.0	1027.8	1033.4	1029.5
37.5°	917.6	929.8	971.9	984.6	981.3
40°	862.7	876.0	909.3	932.0	933.1
42.5°	808.4	821.2	848.3	881.0	881.0
45°	750.8	763.5	788.5	824.5	828.9
47.5°	694.3	707.6	732.0	768.0	775.2
50°	638.9	651.1	675.4	710.3	721.4
52.5°	581.2	594.5	618.4	650.5	666.6
55°	525.8	534.7	560.7	591.8	608.9
57.5°	468.2	476.5	505.9	532.5	550.2
60°	412.8	423.3	446.0	473.2	493.7
62.5°	359.6	370.7	390.1	413.9	437.2
65°	308.1	316.4	335.2	359.1	379.6
67.5°	258.2	265.4	284.2	300.9	322.5
70°	207.8	217.2	231.1	247.1	261.0
72.5°	167.3	171.2	182.9	194.5	208.9
75°	123.6	130.2	139.6	146.3	154.6
77.5°	88.7	92.5	98.1	103.6	111.4
80°	59.3	61.0	65.9	67.0	73.1
82.5°	36.0	37.1	38.2	38.8	41.0
85°	19.4	19.4	19.4	18.3	18.3
87.5°	11.1	11.1	9.4	7.8	5.5
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)