

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: P555280

Luminaire Tested: **FUSL-12-2-LD4-2STD-40-UNV-82-84-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: P555280
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-LD4-2STD-40-UNV-82-84-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

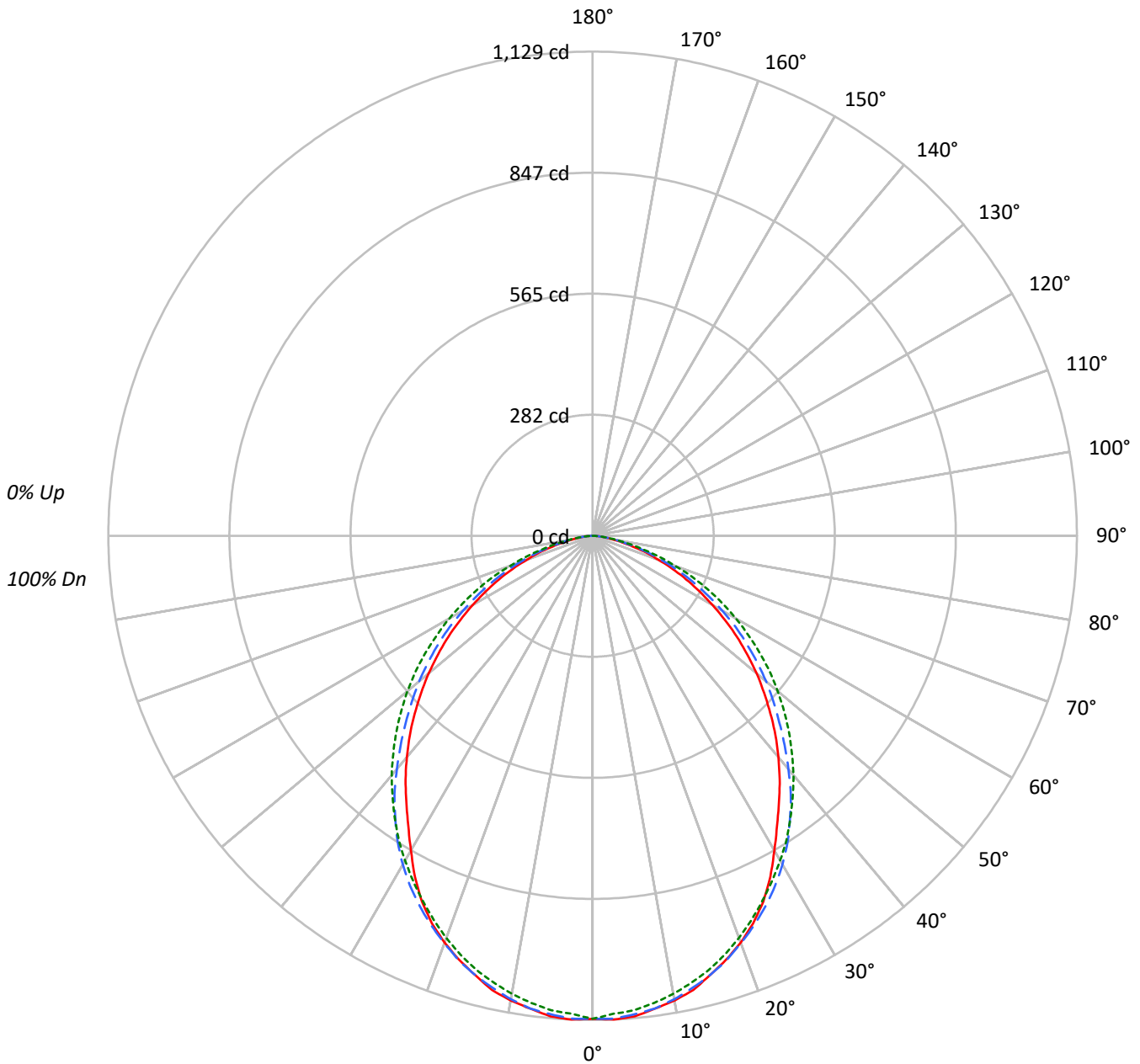
Lumens per Lamp: N/A
Luminaire Lumens: 2604.0 lumens
Efficiency: N/A
Efficacy: 78.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
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°	6061	6061	6061
5°	6077	6051	6000
10°	6013	5996	5927
15°	5906	5906	5839
20°	5781	5788	5714
25°	5590	5660	5570
30°	5264	5501	5434
35°	4974	5273	5281
40°	4732	4988	5119
45°	4462	4685	4926
50°	4176	4416	4716
55°	3853	4108	4462
60°	3469	3749	4149
65°	3063	3333	3775
70°	2552	2839	3207
75°	2007	2267	2510
80°	1435	1596	1770
85°	932	932	883



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.0	4.1
10°-20°	297.9	11.4
20°-30°	435.3	16.7
30°-40°	494.1	19.0
40°-50°	477.0	18.3
50°-60°	393.5	15.1
60°-70°	262.0	10.1
70°-80°	117.3	4.5
80°-90°	21.0	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°	839.2	32.2
0°-40°	1333.3	51.2
0°-60°	2203.8	84.6
0°-90°	2604.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2604.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1126	1126	1126	1126	1126	
5°	1125	1124	1120	1114	1111	106
15°	1060	1063	1060	1055	1048	299
25°	941	949	953	946	938	431
35°	757	768	802	807	804	474
45°	586	596	616	644	647	452
55°	411	418	438	462	476	366
65°	240	247	262	280	296	238
75°	96	102	109	114	121	106
85°	15	15	15	14	14	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1126.2	1126.2	1126.2	1126.2	1126.2
2.5°	1129.2	1129.6	1127.0	1120.1	1115.8
5°	1124.9	1124.4	1120.1	1114.0	1110.6
7.5°	1112.3	1113.2	1111.9	1103.2	1098.5
10°	1100.2	1100.6	1097.2	1090.3	1084.6
12.5°	1084.6	1084.2	1079.4	1076.0	1066.9
15°	1060.0	1062.6	1060.0	1055.2	1047.9
17.5°	1036.2	1036.2	1037.9	1029.7	1024.1
20°	1009.3	1010.6	1010.6	1004.2	997.7
22.5°	978.2	982.1	983.4	976.5	968.7
25°	941.4	948.8	953.1	946.2	938.0
27.5°	896.9	908.1	921.1	915.9	906.8
30°	847.1	863.6	885.2	880.9	874.4
32.5°	800.0	816.4	846.2	844.5	841.1
35°	757.1	767.5	802.5	806.9	803.8
37.5°	716.5	726.0	758.9	768.8	766.2
40°	673.6	684.0	710.0	727.7	728.6
42.5°	631.2	641.2	662.4	687.9	687.9
45°	586.2	596.2	615.6	643.8	647.2
47.5°	542.1	552.5	571.5	599.6	605.3
50°	498.8	508.4	527.4	554.6	563.3
52.5°	453.8	464.2	482.8	507.9	520.5
55°	410.6	417.5	437.8	462.1	475.5
57.5°	365.6	372.1	395.0	415.8	429.6
60°	322.3	330.5	348.3	369.5	385.5
62.5°	280.8	289.4	304.6	323.2	341.4
65°	240.5	247.0	261.7	280.4	296.4
67.5°	201.6	207.2	221.9	234.9	251.8
70°	162.2	169.6	180.4	193.0	203.8
72.5°	130.7	133.7	142.8	151.9	163.1
75°	96.5	101.7	109.0	114.2	120.7
77.5°	69.2	72.3	76.6	80.9	87.0
80°	46.3	47.6	51.5	52.3	57.1
82.5°	28.1	29.0	29.9	30.3	32.0
85°	15.1	15.1	15.1	14.3	14.3
87.5°	8.7	8.7	7.4	6.1	4.3
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)