

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: P557693

Luminaire Tested: **FUSL-12-4-LD4-3HI-30-UNV-80-96-EDD**

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: P557693
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-12-4-LD4-3HI-30-UNV-80-96-EDD
Description: 4FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

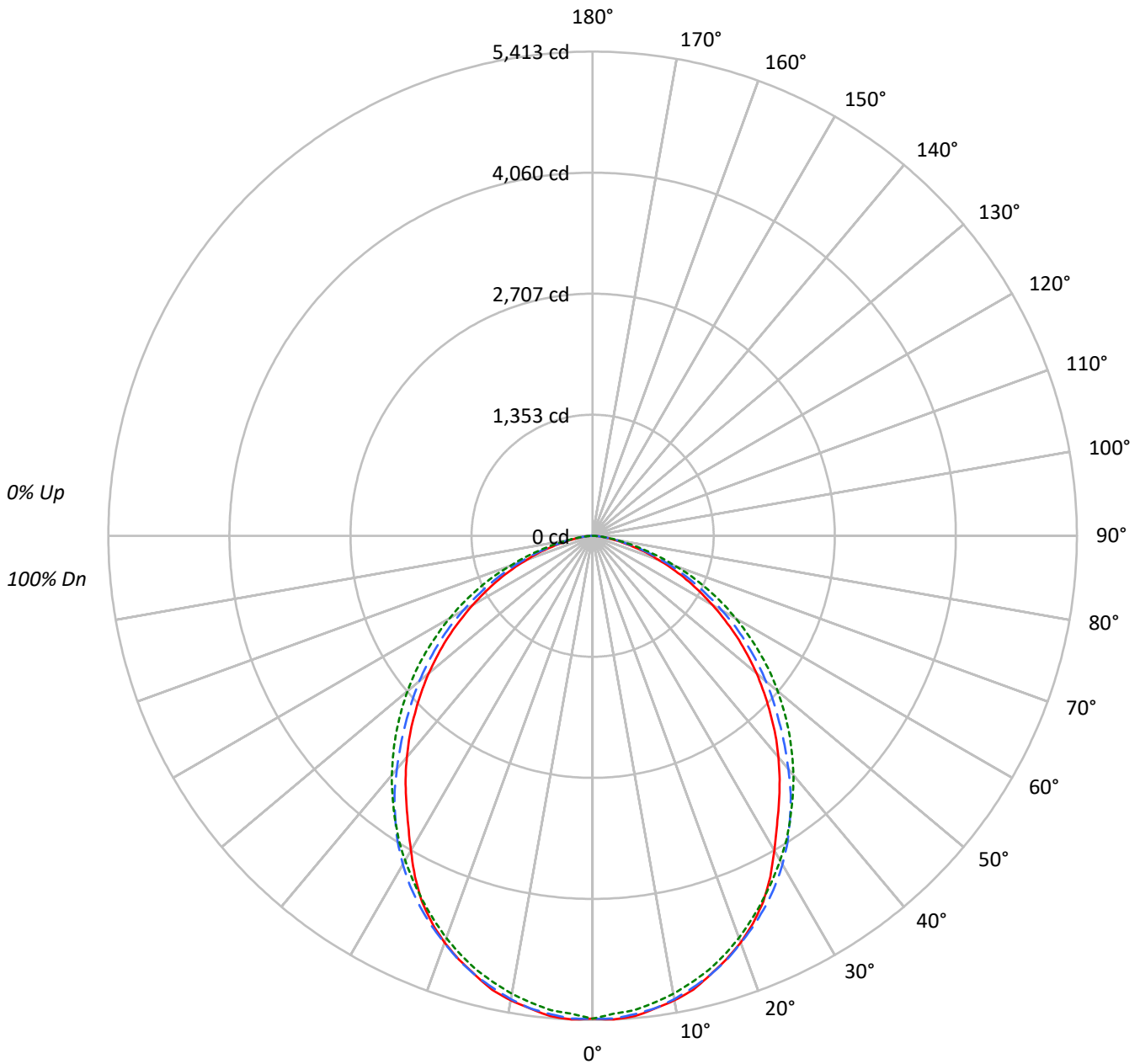
Lumens per Lamp: N/A
Luminaire Lumens: 12483.0 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 129.6
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°	14528	14528	14528
5°	14566	14504	14381
10°	14411	14372	14208
15°	14156	14156	13994
20°	13856	13874	13696
25°	13400	13566	13351
30°	12618	13185	13024
35°	11923	12638	12659
40°	11344	11956	12269
45°	10695	11232	11808
50°	10011	10584	11305
55°	9234	9847	10694
60°	8316	8986	9945
65°	7342	7990	9046
70°	6119	6805	7685
75°	4809	5434	6016
80°	3439	3825	4243
85°	2242	2242	2112



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	508.3	4.1
10°-20°	1427.9	11.4
20°-30°	2086.7	16.7
30°-40°	2368.6	19.0
40°-50°	2286.5	18.3
50°-60°	1886.2	15.1
60°-70°	1256.1	10.1
70°-80°	562.1	4.5
80°-90°	100.6	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°	4022.9	32.2
0°-40°	6391.5	51.2
0°-60°	10564.3	84.6
0°-90°	12483.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12483.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5399	5399	5399	5399	5399	
5°	5392	5390	5370	5340	5324	510
15°	5081	5094	5081	5058	5023	1432
25°	4513	4548	4569	4536	4496	2067
35°	3630	3679	3847	3868	3854	2274
45°	2810	2858	2951	3086	3103	2168
55°	1968	2001	2099	2215	2279	1757
65°	1153	1184	1255	1344	1421	1143
75°	462	487	523	548	579	506
85°	73	73	73	68	68	98
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5398.6	5398.6	5398.6	5398.6	5398.6
2.5°	5413.1	5415.2	5402.7	5369.5	5348.8
5°	5392.4	5390.3	5369.5	5340.5	5323.9
7.5°	5332.2	5336.4	5330.1	5288.7	5265.8
10°	5274.1	5276.2	5259.6	5226.4	5199.5
12.5°	5199.5	5197.4	5174.6	5158.0	5114.4
15°	5081.3	5093.7	5081.3	5058.4	5023.2
17.5°	4967.2	4967.2	4975.5	4936.1	4909.1
20°	4838.6	4844.8	4844.8	4813.7	4782.6
22.5°	4689.3	4707.9	4714.2	4681.0	4643.6
25°	4513.0	4548.2	4569.0	4535.8	4496.4
27.5°	4299.4	4353.3	4415.5	4390.6	4347.1
30°	4060.9	4139.7	4243.4	4222.6	4191.5
32.5°	3834.8	3913.6	4056.7	4048.4	4031.8
35°	3629.5	3679.2	3847.2	3868.0	3853.5
37.5°	3434.5	3480.1	3637.8	3685.5	3673.0
40°	3229.2	3279.0	3403.4	3488.4	3492.6
42.5°	3025.9	3073.6	3175.3	3297.6	3297.6
45°	2810.2	2857.9	2951.3	3086.1	3102.7
47.5°	2598.7	2648.5	2739.7	2874.5	2901.5
50°	2391.3	2436.9	2528.2	2658.8	2700.3
52.5°	2175.6	2225.4	2314.6	2434.9	2495.0
55°	1968.2	2001.4	2098.9	2215.0	2279.3
57.5°	1752.5	1783.6	1893.5	1993.1	2059.5
60°	1545.1	1584.5	1669.6	1771.2	1847.9
62.5°	1346.0	1387.5	1460.1	1549.3	1636.4
65°	1153.1	1184.2	1254.8	1343.9	1420.7
67.5°	966.5	993.4	1064.0	1126.2	1207.1
70°	777.7	813.0	864.9	925.0	976.8
72.5°	626.3	640.9	684.4	728.0	781.9
75°	462.5	487.4	522.6	547.5	578.6
77.5°	331.8	346.4	367.1	387.8	416.9
80°	221.9	228.1	246.8	251.0	273.8
82.5°	134.8	139.0	143.1	145.2	153.5
85°	72.6	72.6	72.6	68.4	68.4
87.5°	41.5	41.5	35.3	29.0	20.7
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)