

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: P554999

Luminaire Tested: **FUSL-12-2-LD4-2LO-40-UNV-80-87-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: P554999
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-LD4-2LO-40-UNV-80-87-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

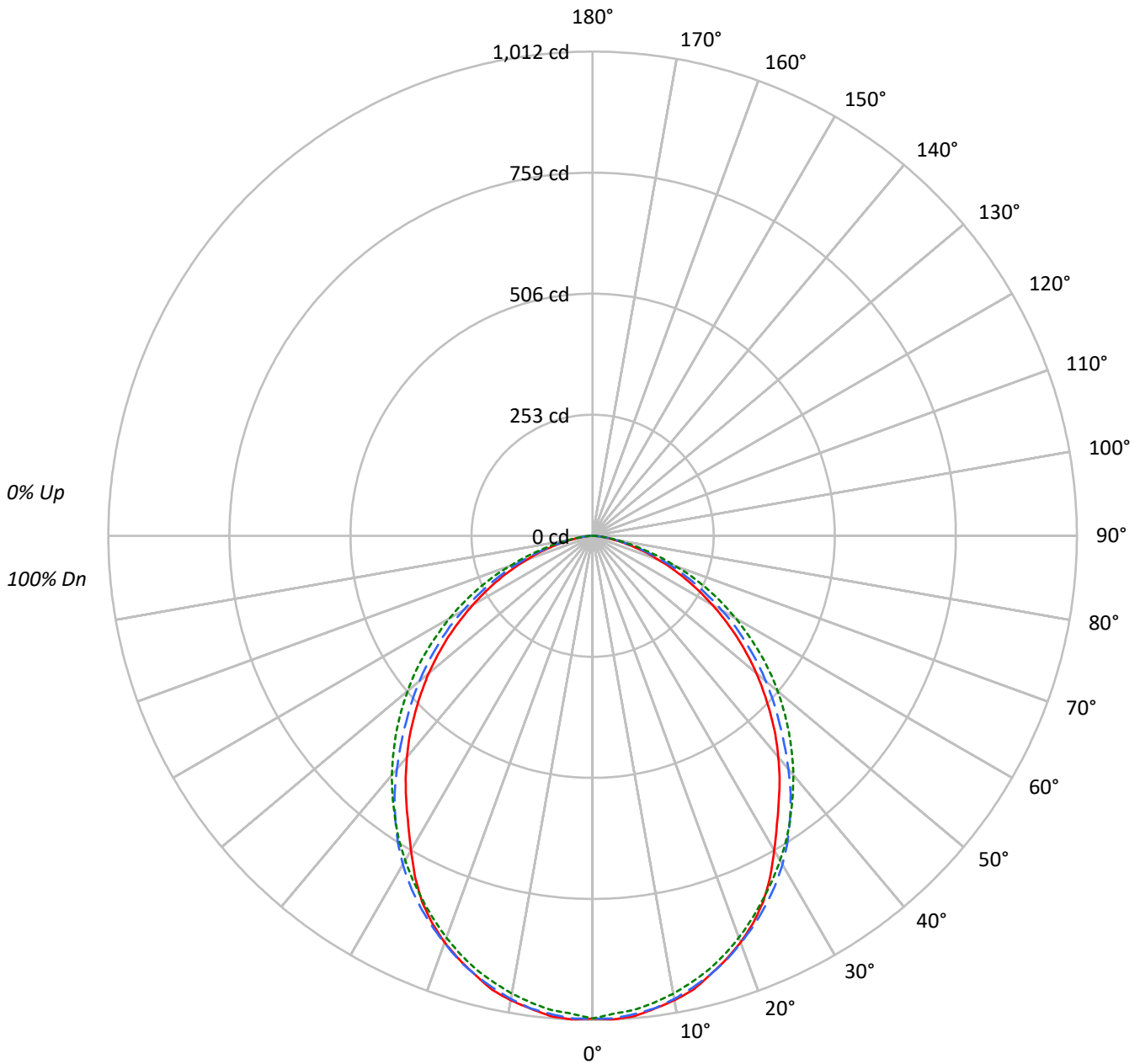
Lumens per Lamp: N/A
Luminaire Lumens: 2333.0 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
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°	5430	5430	5430
5°	5445	5421	5376
10°	5387	5372	5311
15°	5292	5292	5231
20°	5179	5186	5119
25°	5009	5071	4990
30°	4717	4929	4868
35°	4457	4724	4732
40°	4240	4469	4586
45°	3997	4198	4414
50°	3742	3956	4226
55°	3451	3681	3997
60°	3109	3358	3718
65°	2744	2986	3381
70°	2288	2543	2873
75°	1797	2032	2248
80°	1286	1429	1587
85°	840	840	790



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.0	4.1
10°-20°	266.9	11.4
20°-30°	390.0	16.7
30°-40°	442.7	19.0
40°-50°	427.3	18.3
50°-60°	352.5	15.1
60°-70°	234.7	10.1
70°-80°	105.0	4.5
80°-90°	18.8	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°	751.9	32.2
0°-40°	1194.5	51.2
0°-60°	1974.4	84.6
0°-90°	2333.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2333.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1009	1009	1009	1009	1009	
5°	1008	1007	1004	998	995	95
15°	950	952	950	945	939	268
25°	844	850	854	848	840	386
35°	678	688	719	723	720	425
45°	525	534	552	577	580	405
55°	368	374	392	414	426	328
65°	216	221	234	251	266	214
75°	86	91	98	102	108	95
85°	14	14	14	13	13	18
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1009.0	1009.0	1009.0	1009.0	1009.0
2.5°	1011.7	1012.1	1009.7	1003.5	999.7
5°	1007.8	1007.4	1003.5	998.1	995.0
7.5°	996.6	997.3	996.2	988.4	984.2
10°	985.7	986.1	983.0	976.8	971.8
12.5°	971.8	971.4	967.1	964.0	955.9
15°	949.7	952.0	949.7	945.4	938.8
17.5°	928.3	928.3	929.9	922.5	917.5
20°	904.3	905.5	905.5	899.7	893.8
22.5°	876.4	879.9	881.0	874.8	867.9
25°	843.5	850.0	853.9	847.7	840.3
27.5°	803.5	813.6	825.2	820.6	812.4
30°	759.0	773.7	793.1	789.2	783.4
32.5°	716.7	731.4	758.2	756.6	753.5
35°	678.3	687.6	719.0	722.9	720.2
37.5°	641.9	650.4	679.9	688.8	686.5
40°	603.5	612.8	636.1	652.0	652.7
42.5°	565.5	574.4	593.4	616.3	616.3
45°	525.2	534.1	551.6	576.8	579.9
47.5°	485.7	495.0	512.0	537.2	542.3
50°	446.9	455.4	472.5	496.9	504.7
52.5°	406.6	415.9	432.6	455.1	466.3
55°	367.8	374.0	392.3	414.0	426.0
57.5°	327.5	333.3	353.9	372.5	384.9
60°	288.8	296.1	312.0	331.0	345.4
62.5°	251.6	259.3	272.9	289.5	305.8
65°	215.5	221.3	234.5	251.2	265.5
67.5°	180.6	185.7	198.8	210.5	225.6
70°	145.4	151.9	161.6	172.9	182.6
72.5°	117.1	119.8	127.9	136.1	146.1
75°	86.4	91.1	97.7	102.3	108.1
77.5°	62.0	64.7	68.6	72.5	77.9
80°	41.5	42.6	46.1	46.9	51.2
82.5°	25.2	26.0	26.7	27.1	28.7
85°	13.6	13.6	13.6	12.8	12.8
87.5°	7.8	7.8	6.6	5.4	3.9
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)