

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: P554983

Luminaire Tested: **FUSL-12-2-LD4-2LO-35-UNV-93-87-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: P554983
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-35-UNV-93-87-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

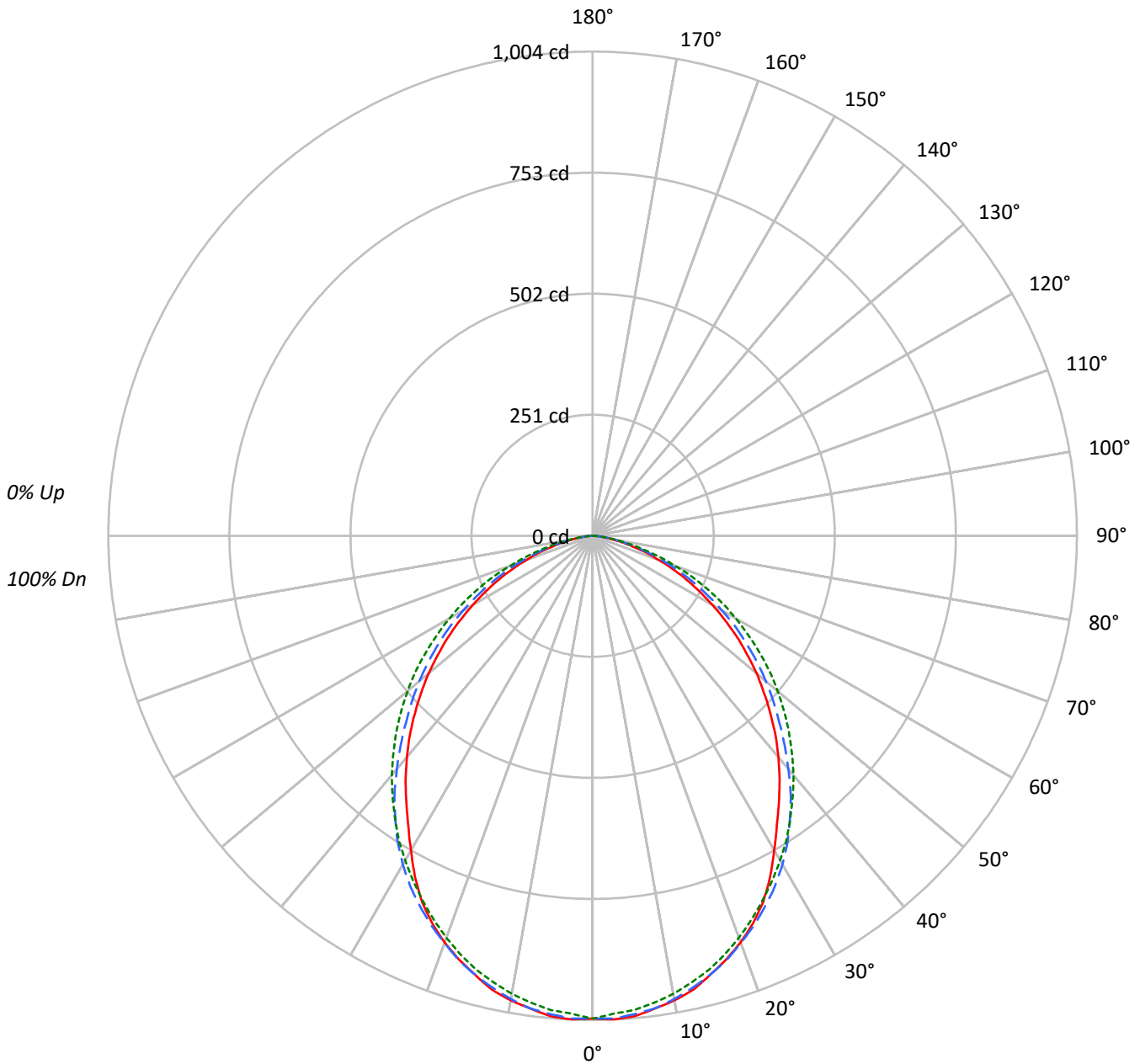
Lumens per Lamp: N/A
Luminaire Lumens: 2315.0 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
Input Voltage (V): NR
Input Current (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

TEST NUMBER: P554983

CATALOG NUMBER: FUSL-12-2-LD4-2LO-35-UNV-93-87-EDD

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°	5388	5388	5388
5°	5403	5380	5334
10°	5345	5331	5270
15°	5250	5250	5191
20°	5139	5146	5080
25°	4970	5032	4952
30°	4680	4890	4831
35°	4422	4688	4695
40°	4208	4435	4551
45°	3967	4166	4380
50°	3713	3926	4193
55°	3425	3652	3966
60°	3084	3333	3689
65°	2724	2963	3356
70°	2269	2524	2851
75°	1784	2015	2231
80°	1277	1420	1574
85°	834	834	784



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.3	4.1
10°-20°	264.8	11.4
20°-30°	387.0	16.7
30°-40°	439.3	19.0
40°-50°	424.0	18.3
50°-60°	349.8	15.1
60°-70°	232.9	10.1
70°-80°	104.2	4.5
80°-90°	18.7	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°	746.1	32.2
0°-40°	1185.3	51.2
0°-60°	1959.2	84.6
0°-90°	2315.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2315.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1001	1001	1001	1001	1001	
5°	1000	1000	996	990	987	95
15°	942	945	942	938	932	266
25°	837	844	847	841	834	383
35°	673	682	714	717	715	422
45°	521	530	547	572	575	402
55°	365	371	389	411	423	326
65°	214	220	233	249	264	212
75°	86	90	97	102	107	94
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°	1001.2	1001.2	1001.2	1001.2	1001.2
2.5°	1003.9	1004.3	1001.9	995.8	991.9
5°	1000.0	999.6	995.8	990.4	987.3
7.5°	988.9	989.6	988.5	980.8	976.6
10°	978.1	978.5	975.4	969.3	964.3
12.5°	964.3	963.9	959.6	956.6	948.5
15°	942.3	944.6	942.3	938.1	931.6
17.5°	921.2	921.2	922.7	915.4	910.4
20°	897.3	898.5	898.5	892.7	886.9
22.5°	869.6	873.1	874.3	868.1	861.2
25°	836.9	843.5	847.3	841.2	833.9
27.5°	797.3	807.3	818.9	814.3	806.2
30°	753.1	767.7	786.9	783.1	777.3
32.5°	711.2	725.8	752.3	750.8	747.7
35°	673.1	682.3	713.5	717.3	714.6
37.5°	636.9	645.4	674.6	683.5	681.2
40°	598.9	608.1	631.2	646.9	647.7
42.5°	561.2	570.0	588.9	611.6	611.6
45°	521.2	530.0	547.3	572.3	575.4
47.5°	481.9	491.2	508.1	533.1	538.1
50°	443.5	451.9	468.9	493.1	500.8
52.5°	403.5	412.7	429.2	451.5	462.7
55°	365.0	371.2	389.2	410.8	422.7
57.5°	325.0	330.8	351.2	369.6	381.9
60°	286.5	293.9	309.6	328.5	342.7
62.5°	249.6	257.3	270.8	287.3	303.5
65°	213.9	219.6	232.7	249.2	263.5
67.5°	179.2	184.2	197.3	208.9	223.9
70°	144.2	150.8	160.4	171.5	181.2
72.5°	116.2	118.8	126.9	135.0	145.0
75°	85.8	90.4	96.9	101.5	107.3
77.5°	61.5	64.2	68.1	71.9	77.3
80°	41.2	42.3	45.8	46.5	50.8
82.5°	25.0	25.8	26.5	26.9	28.5
85°	13.5	13.5	13.5	12.7	12.7
87.5°	7.7	7.7	6.5	5.4	3.8
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)