

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: P555011

Luminaire Tested: **FUSL-12-2-LD4-2LO-40-UNV-81-85-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: P555011
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-81-85-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

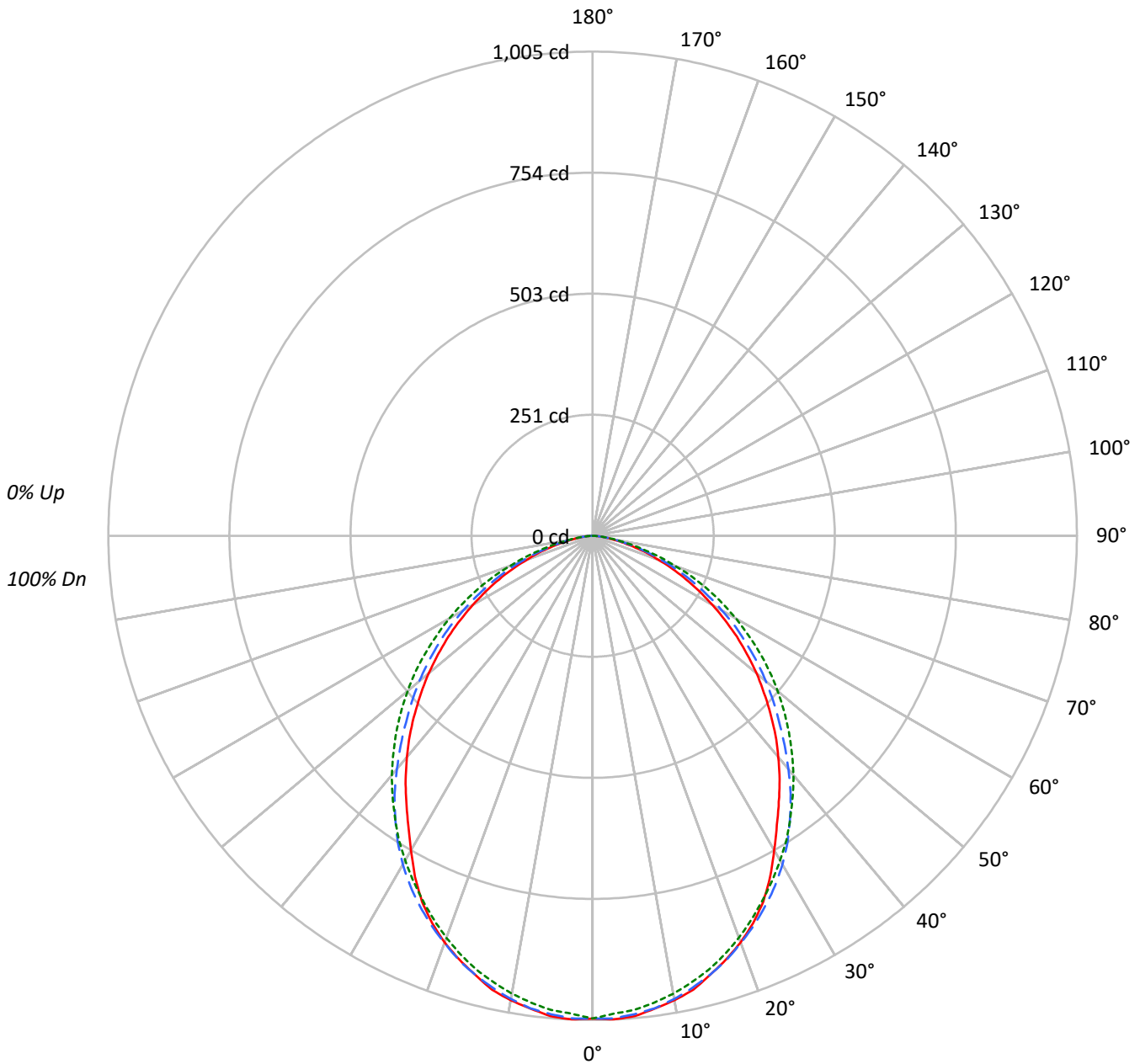
Lumens per Lamp: N/A
Luminaire Lumens: 2317.0 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	5393	5393	5393
5°	5407	5385	5339
10°	5350	5335	5274
15°	5255	5255	5195
20°	5144	5151	5084
25°	4975	5036	4956
30°	4684	4895	4835
35°	4426	4692	4699
40°	4211	4438	4555
45°	3970	4169	4383
50°	3717	3929	4196
55°	3428	3656	3970
60°	3087	3336	3692
65°	2725	2966	3358
70°	2272	2526	2853
75°	1784	2017	2233
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°	265.0	11.4
20°-30°	387.3	16.7
30°-40°	439.6	19.0
40°-50°	424.4	18.3
50°-60°	350.1	15.1
60°-70°	233.1	10.1
70°-80°	104.3	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°	746.7	32.2
0°-40°	1186.4	51.2
0°-60°	1960.9	84.6
0°-90°	2317.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2317.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1002	1002	1002	1002	1002	
5°	1001	1000	997	991	988	95
15°	943	946	943	939	932	266
25°	838	844	848	842	835	384
35°	674	683	714	718	715	422
45°	522	530	548	573	576	402
55°	365	372	390	411	423	326
65°	214	220	233	250	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°	1002.0	1002.0	1002.0	1002.0	1002.0
2.5°	1004.7	1005.1	1002.8	996.7	992.8
5°	1000.9	1000.5	996.7	991.3	988.2
7.5°	989.7	990.5	989.3	981.6	977.4
10°	978.9	979.3	976.3	970.1	965.1
12.5°	965.1	964.7	960.5	957.4	949.3
15°	943.1	945.5	943.1	938.9	932.4
17.5°	922.0	922.0	923.5	916.2	911.2
20°	898.1	899.3	899.3	893.5	887.7
22.5°	870.4	873.9	875.0	868.8	861.9
25°	837.7	844.2	848.1	841.9	834.6
27.5°	798.0	808.0	819.6	815.0	806.9
30°	753.7	768.4	787.6	783.8	778.0
32.5°	711.8	726.4	753.0	751.4	748.4
35°	673.7	682.9	714.1	717.9	715.2
37.5°	637.5	646.0	675.2	684.1	681.8
40°	599.4	608.6	631.7	647.5	648.3
42.5°	561.7	570.5	589.4	612.1	612.1
45°	521.6	530.5	547.8	572.8	575.9
47.5°	482.4	491.6	508.5	533.6	538.6
50°	443.9	452.3	469.3	493.5	501.2
52.5°	403.8	413.1	429.6	451.9	463.1
55°	365.3	371.5	389.6	411.1	423.1
57.5°	325.3	331.1	351.5	369.9	382.3
60°	286.8	294.1	309.9	328.8	343.0
62.5°	249.8	257.5	271.0	287.6	303.7
65°	214.0	219.8	232.9	249.5	263.7
67.5°	179.4	184.4	197.5	209.0	224.0
70°	144.4	150.9	160.5	171.7	181.3
72.5°	116.3	119.0	127.0	135.1	145.1
75°	85.8	90.5	97.0	101.6	107.4
77.5°	61.6	64.3	68.1	72.0	77.4
80°	41.2	42.3	45.8	46.6	50.8
82.5°	25.0	25.8	26.6	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)