

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: P555734

Luminaire Tested: **FUSL-12-2-LD4-3LO-35-UNV-82-87-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: P555734
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-LD4-3LO-35-UNV-82-87-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .375
CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

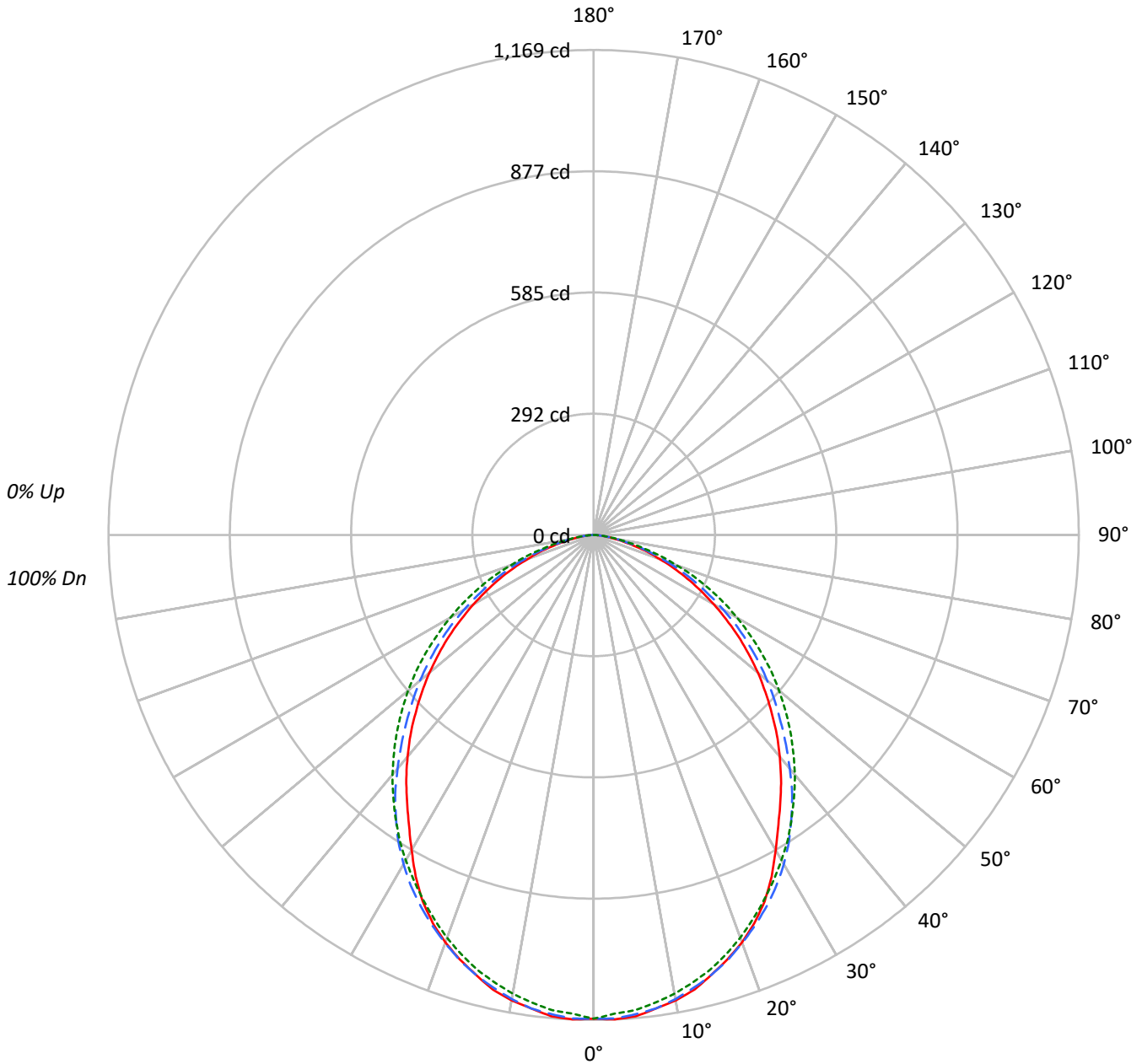
Lumens per Lamp: N/A
Luminaire Lumens: 2696.0 lumens
Efficiency: N/A
Efficacy: 76.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
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

TEST NUMBER: P555734

CATALOG NUMBER: FUSL-12-2-LD4-3LO-35-UNV-82-87-EDD-90

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°	6275	6275	6275
5°	6292	6265	6212
10°	6225	6208	6137
15°	6115	6115	6045
20°	5985	5993	5916
25°	5788	5860	5767
30°	5450	5696	5626
35°	5150	5459	5468
40°	4900	5164	5299
45°	4619	4851	5100
50°	4325	4572	4883
55°	3989	4253	4619
60°	3592	3881	4296
65°	3171	3451	3907
70°	2644	2939	3320
75°	2077	2348	2599
80°	1485	1652	1832
85°	969	969	914



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.8	4.1
10°-20°	308.4	11.4
20°-30°	450.7	16.7
30°-40°	511.6	19.0
40°-50°	493.8	18.3
50°-60°	407.4	15.1
60°-70°	271.3	10.1
70°-80°	121.4	4.5
80°-90°	21.7	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°	868.8	32.2
0°-40°	1380.4	51.2
0°-60°	2281.6	84.6
0°-90°	2696.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2696.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1166	1166	1166	1166	1166	
5°	1165	1164	1160	1153	1150	110
15°	1097	1100	1097	1092	1085	309
25°	975	982	987	980	971	446
35°	784	795	831	835	832	491
45°	607	617	637	666	670	468
55°	425	432	453	478	492	379
65°	249	256	271	290	307	247
75°	100	105	113	118	125	109
85°	16	16	16	15	15	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1166.0	1166.0	1166.0	1166.0	1166.0
2.5°	1169.1	1169.5	1166.8	1159.7	1155.2
5°	1164.6	1164.2	1159.7	1153.4	1149.8
7.5°	1151.6	1152.5	1151.2	1142.2	1137.3
10°	1139.1	1139.5	1135.9	1128.8	1122.9
12.5°	1122.9	1122.5	1117.6	1114.0	1104.6
15°	1097.4	1100.1	1097.4	1092.5	1084.9
17.5°	1072.8	1072.8	1074.6	1066.1	1060.2
20°	1045.0	1046.4	1046.4	1039.6	1032.9
22.5°	1012.8	1016.8	1018.1	1011.0	1002.9
25°	974.7	982.3	986.8	979.6	971.1
27.5°	928.5	940.2	953.6	948.3	938.9
30°	877.0	894.1	916.5	912.0	905.3
32.5°	828.2	845.2	876.1	874.4	870.8
35°	783.9	794.6	830.9	835.4	832.2
37.5°	741.8	751.6	785.7	796.0	793.3
40°	697.4	708.2	735.0	753.4	754.3
42.5°	653.5	663.8	685.8	712.2	712.2
45°	606.9	617.2	637.4	666.5	670.1
47.5°	561.3	572.0	591.7	620.8	626.6
50°	516.5	526.3	546.0	574.2	583.2
52.5°	469.9	480.6	499.9	525.9	538.9
55°	425.1	432.2	453.3	478.4	492.3
57.5°	378.5	385.2	409.0	430.5	444.8
60°	333.7	342.2	360.6	382.5	399.1
62.5°	290.7	299.7	315.3	334.6	353.4
65°	249.0	255.8	271.0	290.3	306.8
67.5°	208.7	214.6	229.8	243.2	260.7
70°	168.0	175.6	186.8	199.8	211.0
72.5°	135.3	138.4	147.8	157.2	168.9
75°	99.9	105.3	112.9	118.3	125.0
77.5°	71.7	74.8	79.3	83.8	90.0
80°	47.9	49.3	53.3	54.2	59.1
82.5°	29.1	30.0	30.9	31.4	33.1
85°	15.7	15.7	15.7	14.8	14.8
87.5°	9.0	9.0	7.6	6.3	4.5
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)