

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: P555722

Luminaire Tested: **FUSL-12-2-LD4-3LO-35-UNV-81-94-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: P555722
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-81-94-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDES
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

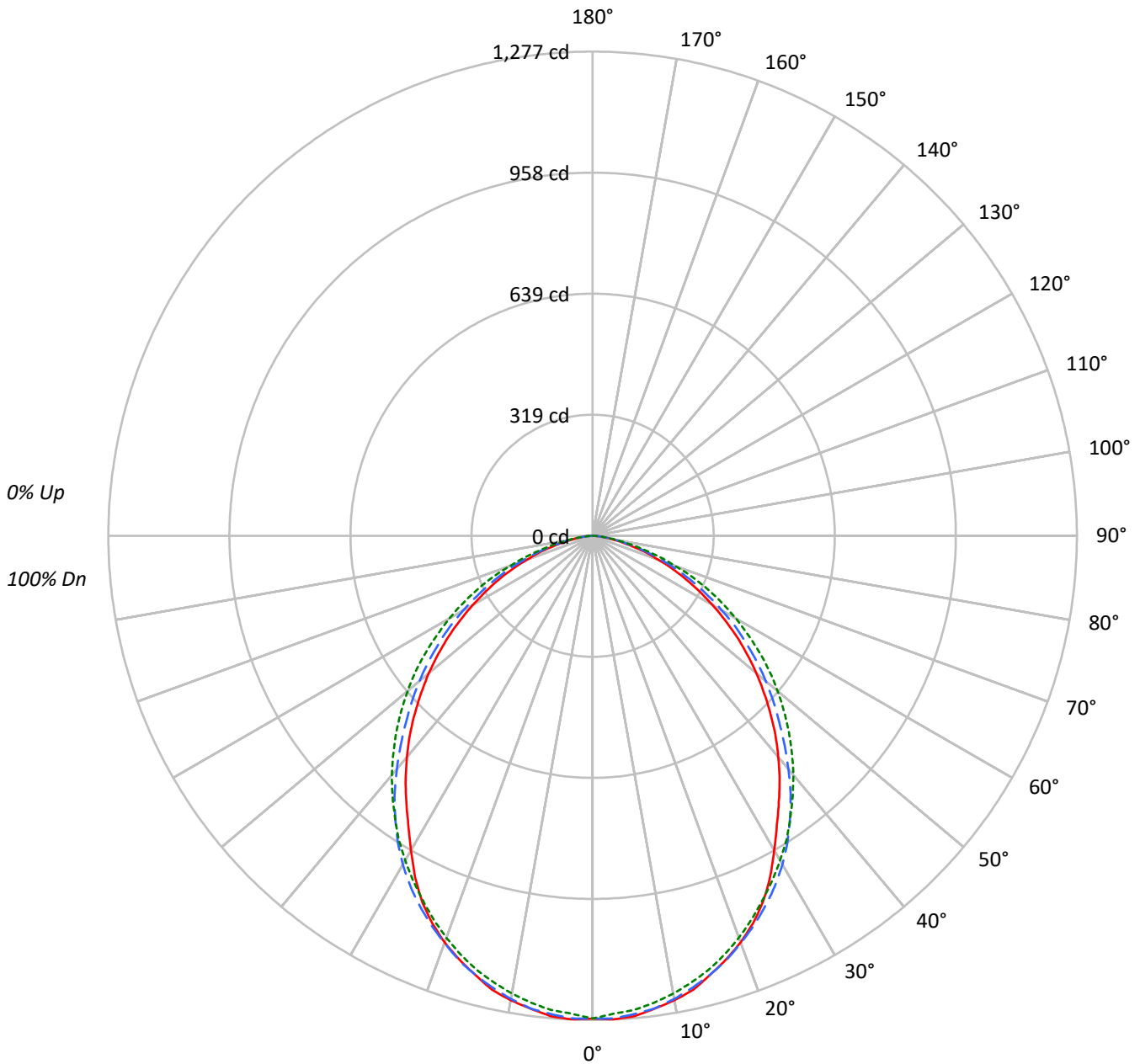
Lumens per Lamp: N/A
Luminaire Lumens: 2944.0 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
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°	6852	6852	6852
5°	6870	6842	6783
10°	6798	6779	6701
15°	6677	6677	6601
20°	6535	6544	6460
25°	6320	6399	6297
30°	5952	6220	6143
35°	5624	5961	5971
40°	5351	5639	5787
45°	5045	5297	5569
50°	4722	4992	5332
55°	4356	4645	5044
60°	3922	4238	4691
65°	3464	3768	4267
70°	2886	3210	3626
75°	2269	2564	2838
80°	1621	1804	2002
85°	1056	1056	994



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.9	4.1
10°-20°	336.8	11.4
20°-30°	492.1	16.7
30°-40°	558.6	19.0
40°-50°	539.2	18.3
50°-60°	444.9	15.1
60°-70°	296.2	10.1
70°-80°	132.6	4.5
80°-90°	23.7	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°	948.8	32.2
0°-40°	1507.4	51.2
0°-60°	2491.5	84.6
0°-90°	2944.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2944.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1273	1273	1273	1273	1273	
5°	1272	1271	1266	1260	1256	120
15°	1198	1201	1198	1193	1185	338
25°	1064	1073	1078	1070	1060	487
35°	856	868	907	912	909	536
45°	663	674	696	728	732	511
55°	464	472	495	522	538	414
65°	272	279	296	317	335	270
75°	109	115	123	129	136	119
85°	17	17	17	16	16	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1273.2	1273.2	1273.2	1273.2	1273.2
2.5°	1276.6	1277.1	1274.2	1266.4	1261.5
5°	1271.7	1271.2	1266.4	1259.5	1255.6
7.5°	1257.6	1258.5	1257.1	1247.3	1241.9
10°	1243.9	1244.3	1240.4	1232.6	1226.2
12.5°	1226.2	1225.8	1220.4	1216.5	1206.2
15°	1198.4	1201.3	1198.4	1193.0	1184.7
17.5°	1171.5	1171.5	1173.4	1164.1	1157.8
20°	1141.1	1142.6	1142.6	1135.3	1127.9
22.5°	1105.9	1110.3	1111.8	1104.0	1095.2
25°	1064.3	1072.7	1077.6	1069.7	1060.4
27.5°	1014.0	1026.7	1041.4	1035.5	1025.2
30°	957.7	976.3	1000.8	995.9	988.5
32.5°	904.4	923.0	956.7	954.8	950.9
35°	856.0	867.7	907.3	912.2	908.8
37.5°	810.0	820.8	857.9	869.2	866.2
40°	761.6	773.3	802.7	822.7	823.7
42.5°	713.6	724.9	748.9	777.7	777.7
45°	662.8	674.0	696.0	727.8	731.7
47.5°	612.9	624.6	646.1	677.9	684.3
50°	564.0	574.7	596.2	627.1	636.8
52.5°	513.1	524.8	545.9	574.2	588.4
55°	464.2	472.0	495.0	522.4	537.6
57.5°	413.3	420.7	446.6	470.1	485.7
60°	364.4	373.7	393.7	417.7	435.8
62.5°	317.4	327.2	344.3	365.4	385.9
65°	272.0	279.3	295.9	317.0	335.1
67.5°	227.9	234.3	250.9	265.6	284.7
70°	183.4	191.7	204.0	218.2	230.4
72.5°	147.7	151.1	161.4	171.7	184.4
75°	109.1	114.9	123.3	129.1	136.5
77.5°	78.3	81.7	86.6	91.5	98.3
80°	52.3	53.8	58.2	59.2	64.6
82.5°	31.8	32.8	33.7	34.2	36.2
85°	17.1	17.1	17.1	16.1	16.1
87.5°	9.8	9.8	8.3	6.8	4.9
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)