

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: P555138

Luminaire Tested: **FUSL-12-2-LD4-2STD-30-UNV-81-85-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: P555138
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-LD4-2STD-30-UNV-81-85-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

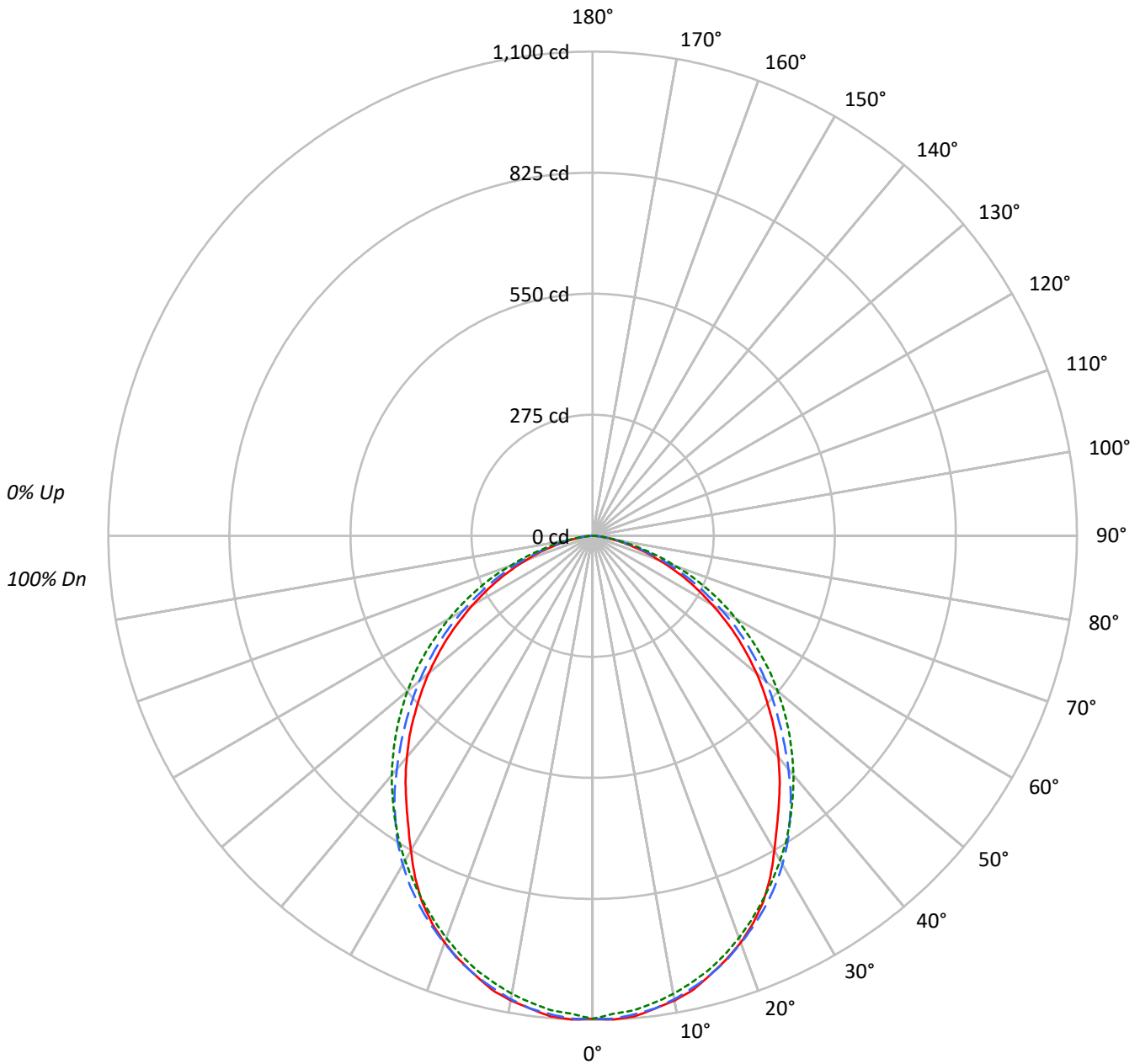
Lumens per Lamp: N/A
Luminaire Lumens: 2537.0 lumens
Efficiency: N/A
Efficacy: 76.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
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°	5905	5905	5905
5°	5921	5896	5846
10°	5858	5842	5775
15°	5754	5754	5688
20°	5632	5639	5567
25°	5447	5514	5426
30°	5129	5359	5294
35°	4846	5137	5146
40°	4611	4860	4987
45°	4347	4565	4800
50°	4069	4302	4595
55°	3753	4003	4346
60°	3380	3652	4043
65°	2985	3247	3677
70°	2488	2766	3124
75°	1955	2208	2445
80°	1398	1556	1723
85°	914	914	858



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.3	4.1
10°-20°	290.2	11.4
20°-30°	424.1	16.7
30°-40°	481.4	19.0
40°-50°	464.7	18.3
50°-60°	383.4	15.1
60°-70°	255.3	10.1
70°-80°	114.2	4.5
80°-90°	20.4	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°	817.6	32.2
0°-40°	1299.0	51.2
0°-60°	2147.1	84.6
0°-90°	2537.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2537.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1097	1097	1097	1097	1097	
5°	1096	1096	1091	1085	1082	104
15°	1033	1035	1033	1028	1021	291
25°	917	924	929	922	914	420
35°	738	748	782	786	783	462
45°	571	581	600	627	631	441
55°	400	407	427	450	463	357
65°	234	241	255	273	289	232
75°	94	99	106	111	118	103
85°	15	15	15	14	14	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1097.2	1097.2	1097.2	1097.2	1097.2
2.5°	1100.1	1100.6	1098.0	1091.3	1087.1
5°	1095.9	1095.5	1091.3	1085.4	1082.0
7.5°	1083.7	1084.5	1083.3	1074.8	1070.2
10°	1071.9	1072.3	1068.9	1062.2	1056.7
12.5°	1056.7	1056.3	1051.7	1048.3	1039.4
15°	1032.7	1035.2	1032.7	1028.1	1020.9
17.5°	1009.5	1009.5	1011.2	1003.2	997.7
20°	983.4	984.6	984.6	978.3	972.0
22.5°	953.0	956.8	958.1	951.3	943.8
25°	917.2	924.4	928.6	921.8	913.8
27.5°	873.8	884.7	897.4	892.3	883.5
30°	825.3	841.3	862.4	858.2	851.9
32.5°	779.4	795.4	824.5	822.8	819.4
35°	737.6	747.8	781.9	786.1	783.2
37.5°	698.0	707.3	739.3	749.0	746.5
40°	656.3	666.4	691.7	709.0	709.8
42.5°	615.0	624.7	645.3	670.2	670.2
45°	571.1	580.8	599.8	627.2	630.6
47.5°	528.2	538.3	556.8	584.2	589.7
50°	486.0	495.3	513.8	540.4	548.8
52.5°	442.2	452.3	470.4	494.9	507.1
55°	400.0	406.8	426.6	450.2	463.2
57.5°	356.2	362.5	384.8	405.1	418.6
60°	314.0	322.0	339.3	360.0	375.6
62.5°	273.6	282.0	296.7	314.9	332.6
65°	234.4	240.7	255.0	273.1	288.7
67.5°	196.4	201.9	216.2	228.9	245.3
70°	158.1	165.2	175.8	188.0	198.5
72.5°	127.3	130.2	139.1	147.9	158.9
75°	94.0	99.1	106.2	111.3	117.6
77.5°	67.4	70.4	74.6	78.8	84.7
80°	45.1	46.4	50.2	51.0	55.6
82.5°	27.4	28.2	29.1	29.5	31.2
85°	14.8	14.8	14.8	13.9	13.9
87.5°	8.4	8.4	7.2	5.9	4.2
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)