

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: P555274

Luminaire Tested: **FUSL-12-2-LD4-2STD-40-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: P555274
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-40-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 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

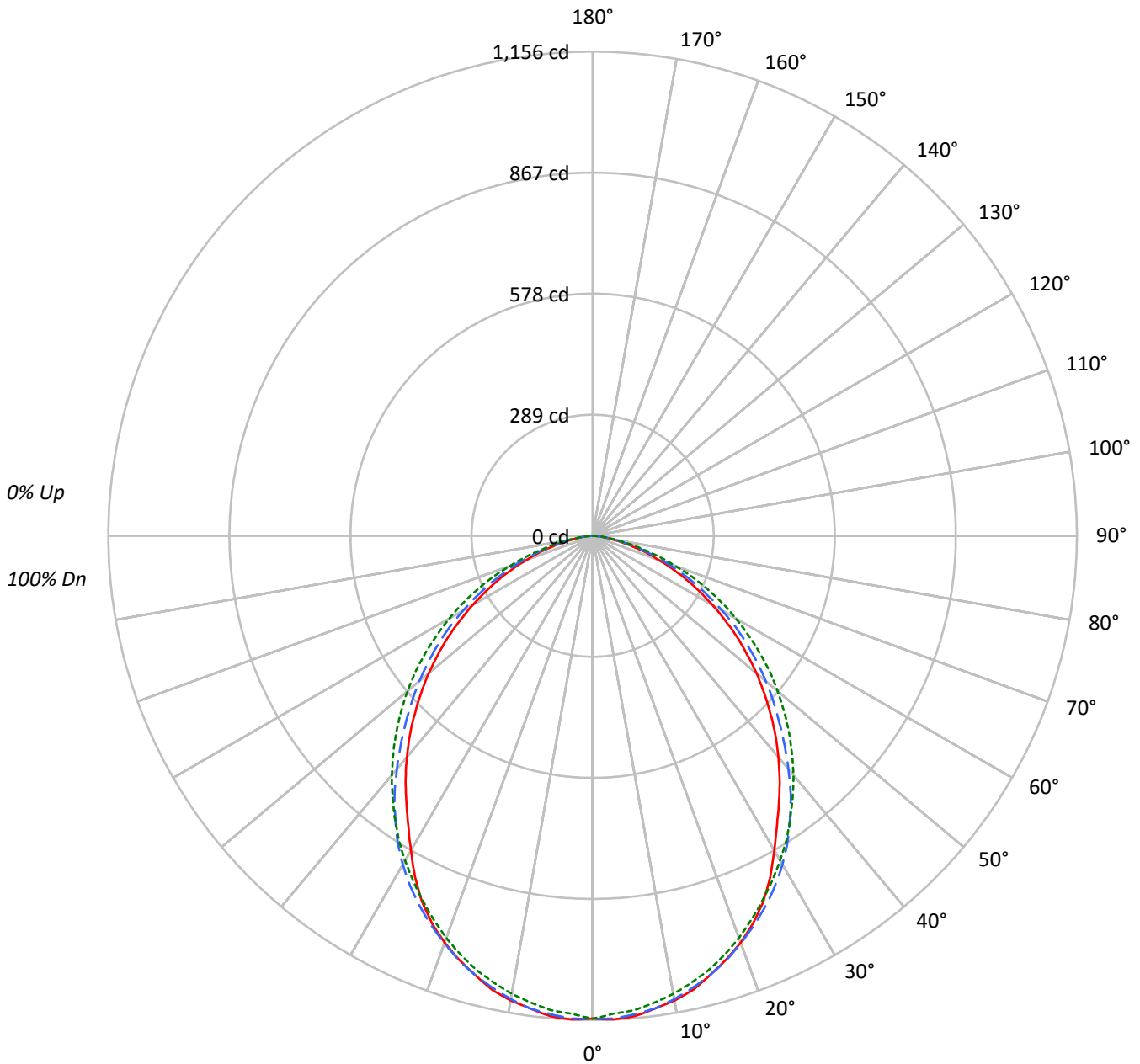
Lumens per Lamp: N/A
Luminaire Lumens: 2666.0 lumens
Efficiency: N/A
Efficacy: 80.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
Input Voltage (V): NR
Input Current (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°	6205	6205	6205
5°	6222	6196	6143
10°	6156	6139	6069
15°	6047	6047	5977
20°	5919	5926	5850
25°	5723	5795	5703
30°	5390	5632	5563
35°	5093	5399	5407
40°	4846	5107	5240
45°	4568	4797	5043
50°	4276	4520	4829
55°	3945	4206	4568
60°	3552	3838	4249
65°	3137	3413	3864
70°	2614	2906	3282
75°	2054	2321	2570
80°	1469	1633	1813
85°	957	957	902



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.6	4.1
10°-20°	305.0	11.4
20°-30°	445.7	16.7
30°-40°	505.9	19.0
40°-50°	488.3	18.3
50°-60°	402.8	15.1
60°-70°	268.3	10.1
70°-80°	120.0	4.5
80°-90°	21.5	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°	859.2	32.2
0°-40°	1365.0	51.2
0°-60°	2256.2	84.6
0°-90°	2666.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2666.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1153	1153	1153	1153	1153	
5°	1152	1151	1147	1141	1137	109
15°	1085	1088	1085	1080	1073	306
25°	964	971	976	969	960	441
35°	775	786	822	826	823	486
45°	600	610	630	659	663	463
55°	420	427	448	473	487	375
65°	246	253	268	287	303	244
75°	99	104	112	117	124	108
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°	1153.0	1153.0	1153.0	1153.0	1153.0
2.5°	1156.1	1156.5	1153.9	1146.8	1142.3
5°	1151.6	1151.2	1146.8	1140.6	1137.0
7.5°	1138.8	1139.7	1138.4	1129.5	1124.6
10°	1126.4	1126.8	1123.3	1116.2	1110.5
12.5°	1110.5	1110.0	1105.1	1101.6	1092.3
15°	1085.2	1087.9	1085.2	1080.3	1072.8
17.5°	1060.8	1060.8	1062.6	1054.2	1048.4
20°	1033.4	1034.7	1034.7	1028.1	1021.4
22.5°	1001.5	1005.5	1006.8	999.7	991.7
25°	963.8	971.4	975.8	968.7	960.3
27.5°	918.2	929.7	943.0	937.7	928.4
30°	867.3	884.1	906.3	901.8	895.2
32.5°	819.0	835.8	866.4	864.6	861.1
35°	775.1	785.8	821.7	826.1	823.0
37.5°	733.5	743.3	776.9	787.1	784.4
40°	689.7	700.3	726.9	745.0	745.9
42.5°	646.3	656.4	678.1	704.3	704.3
45°	600.2	610.4	630.3	659.1	662.6
47.5°	555.0	565.6	585.1	613.9	619.7
50°	510.7	520.5	539.9	567.9	576.7
52.5°	464.6	475.3	494.3	520.0	532.9
55°	420.4	427.4	448.3	473.1	486.8
57.5°	374.3	380.9	404.4	425.7	439.8
60°	330.0	338.4	356.6	378.3	394.7
62.5°	287.5	296.3	311.8	330.9	349.5
65°	246.3	252.9	268.0	287.0	303.4
67.5°	206.4	212.2	227.2	240.5	257.8
70°	166.1	173.6	184.7	197.6	208.6
72.5°	133.8	136.9	146.2	155.5	167.0
75°	98.8	104.1	111.6	116.9	123.6
77.5°	70.9	74.0	78.4	82.8	89.0
80°	47.4	48.7	52.7	53.6	58.5
82.5°	28.8	29.7	30.6	31.0	32.8
85°	15.5	15.5	15.5	14.6	14.6
87.5°	8.9	8.9	7.5	6.2	4.4
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)