

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: P555267

Luminaire Tested: **FUSL-12-2-LD4-2STD-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: P555267
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-81-85-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

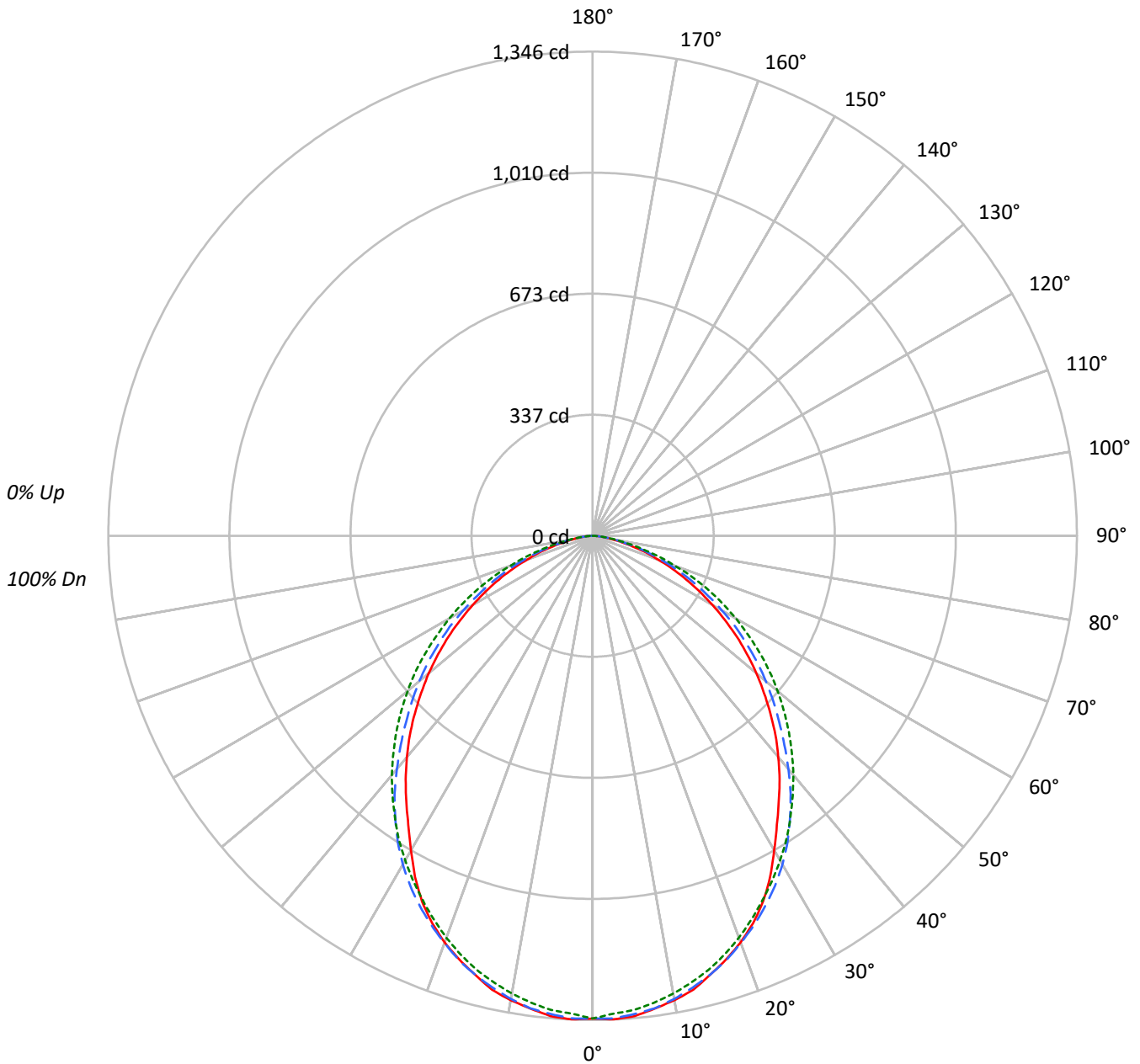
Lumens per Lamp: N/A
Luminaire Lumens: 3103.0 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	7223	7223	7223
5°	7242	7211	7150
10°	7165	7145	7063
15°	7038	7038	6958
20°	6889	6897	6809
25°	6662	6744	6637
30°	6273	6555	6475
35°	5928	6283	6294
40°	5639	5944	6100
45°	5317	5584	5871
50°	4977	5262	5620
55°	4591	4895	5316
60°	4134	4467	4945
65°	3650	3972	4497
70°	3042	3383	3821
75°	2391	2701	2990
80°	1711	1903	2111
85°	1112	1112	1050



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.3	4.1
10°-20°	355.0	11.4
20°-30°	518.7	16.7
30°-40°	588.8	19.0
40°-50°	568.4	18.3
50°-60°	468.9	15.1
60°-70°	312.2	10.1
70°-80°	139.7	4.5
80°-90°	25.0	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°	1000.0	32.2
0°-40°	1588.8	51.2
0°-60°	2626.0	84.6
0°-90°	3103.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3103.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1342	1342	1342	1342	1342	
5°	1340	1340	1335	1328	1323	127
15°	1263	1266	1263	1257	1249	356
25°	1122	1131	1136	1128	1118	514
35°	902	915	956	962	958	565
45°	699	710	734	767	771	539
55°	489	498	522	551	567	437
65°	287	294	312	334	353	284
75°	115	121	130	136	144	126
85°	18	18	18	17	17	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1342.0	1342.0	1342.0	1342.0	1342.0
2.5°	1345.6	1346.1	1343.0	1334.7	1329.6
5°	1340.4	1339.9	1334.7	1327.5	1323.4
7.5°	1325.5	1326.5	1325.0	1314.6	1309.0
10°	1311.0	1311.6	1307.4	1299.2	1292.5
12.5°	1292.5	1292.0	1286.3	1282.2	1271.3
15°	1263.1	1266.2	1263.1	1257.4	1248.7
17.5°	1234.7	1234.7	1236.8	1227.0	1220.3
20°	1202.8	1204.3	1204.3	1196.6	1188.9
22.5°	1165.7	1170.3	1171.8	1163.6	1154.3
25°	1121.8	1130.6	1135.7	1127.5	1117.7
27.5°	1068.7	1082.1	1097.6	1091.4	1080.6
30°	1009.4	1029.0	1054.8	1049.7	1041.9
32.5°	953.2	972.8	1008.4	1006.3	1002.2
35°	902.2	914.6	956.3	961.5	957.9
37.5°	853.7	865.1	904.3	916.1	913.0
40°	802.7	815.1	846.0	867.1	868.2
42.5°	752.2	764.0	789.3	819.7	819.7
45°	698.6	710.4	733.6	767.1	771.3
47.5°	646.0	658.4	681.0	714.5	721.2
50°	594.4	605.8	628.5	660.9	671.2
52.5°	540.8	553.2	575.3	605.3	620.2
55°	489.3	497.5	521.7	550.6	566.6
57.5°	435.6	443.4	470.7	495.4	511.9
60°	384.1	393.9	415.0	440.3	459.4
62.5°	334.6	344.9	362.9	385.1	406.8
65°	286.6	294.4	311.9	334.1	353.1
67.5°	240.2	246.9	264.5	279.9	300.0
70°	193.3	202.1	215.0	229.9	242.8
72.5°	155.7	159.3	170.1	181.0	194.4
75°	115.0	121.2	129.9	136.1	143.8
77.5°	82.5	86.1	91.3	96.4	103.6
80°	55.2	56.7	61.4	62.4	68.1
82.5°	33.5	34.5	35.6	36.1	38.2
85°	18.0	18.0	18.0	17.0	17.0
87.5°	10.3	10.3	8.8	7.2	5.2
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)