

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: P554760

Luminaire Tested: **FUSL-12-2-LD4-2HI-40-UNV-81-88-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: P554760
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-LD4-2HI-40-UNV-81-88-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

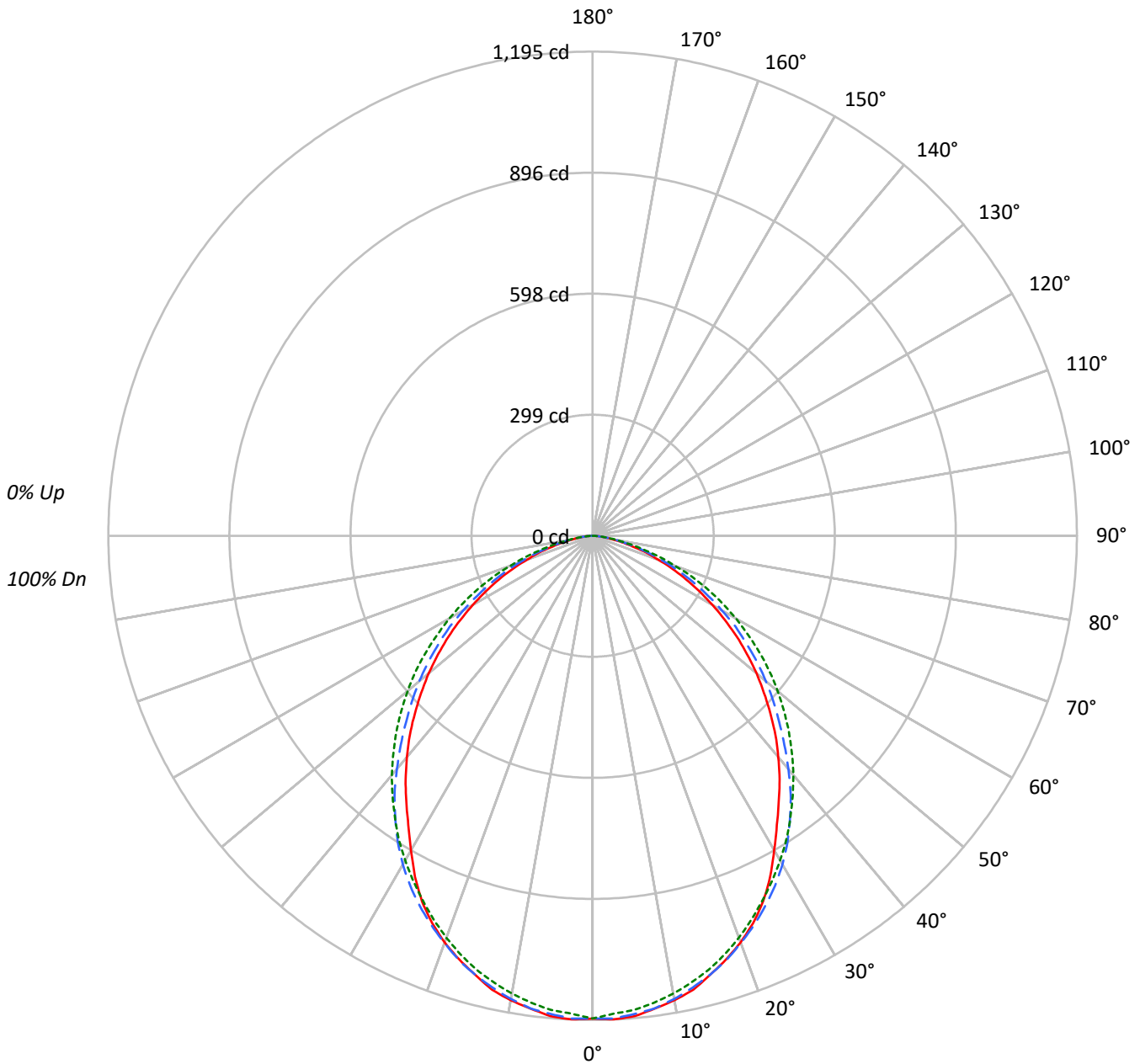
Lumens per Lamp: N/A
Luminaire Lumens: 2755.0 lumens
Efficiency: N/A
Efficacy: 63.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 43.2
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°	6413	6413	6413
5°	6430	6403	6348
10°	6361	6344	6271
15°	6248	6248	6177
20°	6116	6124	6045
25°	5915	5988	5893
30°	5569	5820	5749
35°	5263	5579	5588
40°	5007	5277	5415
45°	4720	4957	5212
50°	4419	4672	4990
55°	4076	4346	4720
60°	3670	3967	4390
65°	3241	3526	3992
70°	2700	3004	3393
75°	2123	2398	2655
80°	1519	1689	1872
85°	988	988	932



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.2	4.1
10°-20°	315.1	11.4
20°-30°	460.5	16.7
30°-40°	522.8	19.0
40°-50°	504.6	18.3
50°-60°	416.3	15.1
60°-70°	277.2	10.1
70°-80°	124.0	4.5
80°-90°	22.2	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°	887.9	32.2
0°-40°	1410.6	51.2
0°-60°	2331.5	84.6
0°-90°	2755.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2755.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1192	1192	1192	1192	1192	
5°	1190	1190	1185	1179	1175	113
15°	1121	1124	1121	1116	1109	316
25°	996	1004	1008	1001	992	456
35°	801	812	849	854	850	502
45°	620	631	651	681	685	479
55°	434	442	463	489	503	388
65°	254	261	277	297	314	252
75°	102	108	115	121	128	112
85°	16	16	16	15	15	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1191.5	1191.5	1191.5	1191.5	1191.5
2.5°	1194.7	1195.1	1192.4	1185.1	1180.5
5°	1190.1	1189.6	1185.1	1178.6	1175.0
7.5°	1176.8	1177.7	1176.4	1167.2	1162.2
10°	1164.0	1164.5	1160.8	1153.5	1147.5
12.5°	1147.5	1147.1	1142.0	1138.4	1128.8
15°	1121.4	1124.2	1121.4	1116.4	1108.6
17.5°	1096.3	1096.3	1098.1	1089.4	1083.4
20°	1067.9	1069.3	1069.3	1062.4	1055.5
22.5°	1034.9	1039.0	1040.4	1033.1	1024.9
25°	996.0	1003.8	1008.4	1001.1	992.4
27.5°	948.9	960.8	974.5	969.0	959.4
30°	896.2	913.6	936.5	931.9	925.1
32.5°	846.3	863.7	895.3	893.5	889.8
35°	801.0	812.0	849.1	853.7	850.5
37.5°	758.0	768.1	802.9	813.4	810.6
40°	712.7	723.7	751.1	769.9	770.8
42.5°	667.8	678.4	700.8	727.8	727.8
45°	620.2	630.7	651.3	681.1	684.8
47.5°	573.5	584.5	604.7	634.4	640.4
50°	527.8	537.8	558.0	586.8	596.0
52.5°	480.2	491.1	510.8	537.4	550.6
55°	434.4	441.7	463.2	488.9	503.0
57.5°	386.8	393.6	417.9	439.9	454.5
60°	341.0	349.7	368.5	390.9	407.8
62.5°	297.1	306.2	322.2	341.9	361.1
65°	254.5	261.4	276.9	296.6	313.5
67.5°	213.3	219.3	234.8	248.5	266.4
70°	171.6	179.4	190.9	204.1	215.6
72.5°	138.2	141.4	151.1	160.7	172.6
75°	102.1	107.6	115.3	120.8	127.7
77.5°	73.2	76.4	81.0	85.6	92.0
80°	49.0	50.4	54.5	55.4	60.4
82.5°	29.8	30.7	31.6	32.0	33.9
85°	16.0	16.0	16.0	15.1	15.1
87.5°	9.2	9.2	7.8	6.4	4.6
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)