

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: 6742.0

Luminaire Tested: **FUS-D12-140U-80/89-SSE**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: 6742.0
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FUS-D12-140U-80/89-SSE
Description: FAIL-SAFE 13x26 SURFACE MOUNT SECURITY LUMINAIRE
CLR .125 POLYCARB W/PRISM LENS WATTS=48, 90% REFL
Light Source: 40W U LAMP
F40WW/U/3
Ballast/Driver: -

Summary

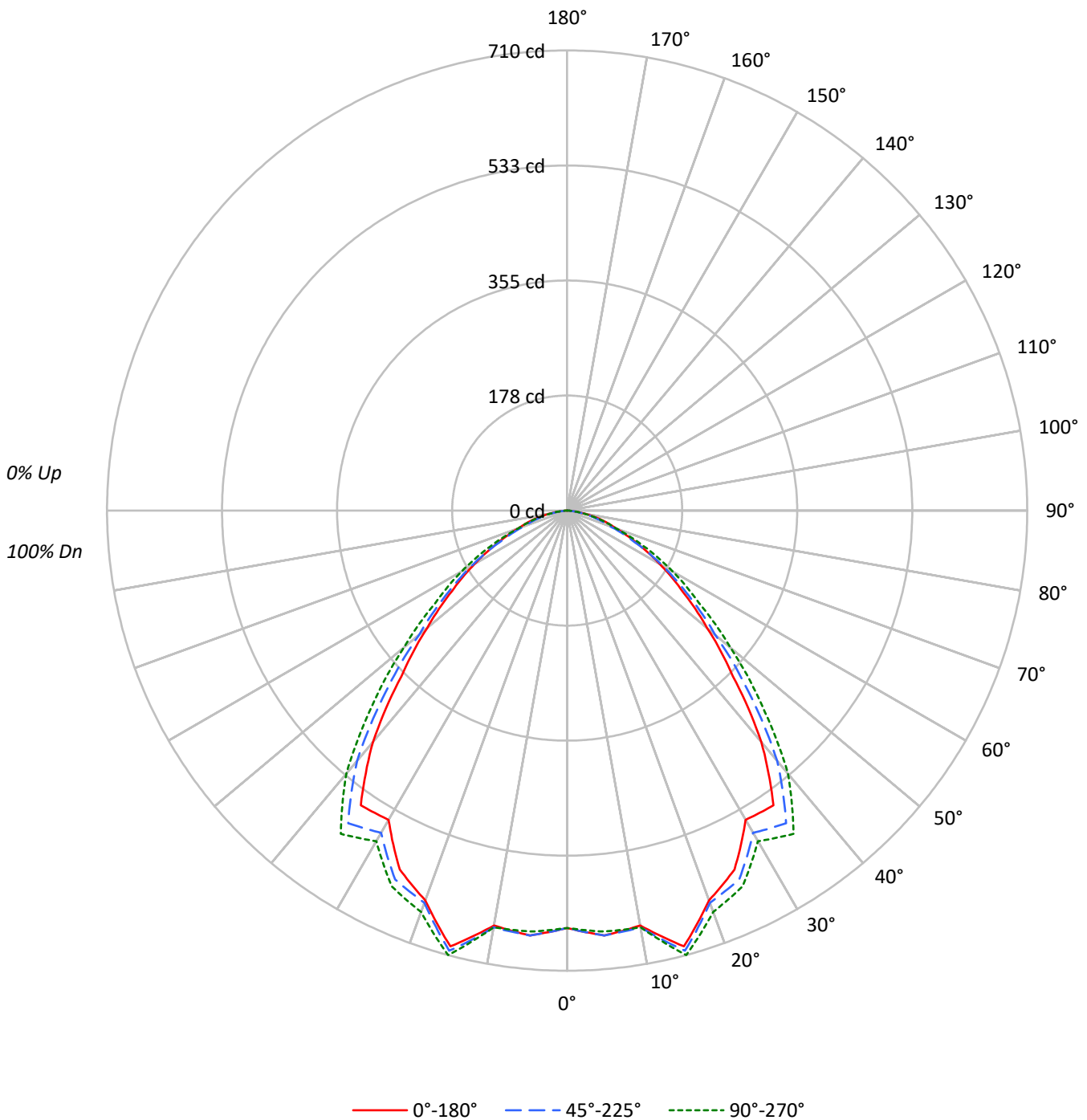
Lumens per Lamp: 2925 (1 lamp)
Luminaire Lumens: 1588.7 lumens
Efficiency: 54.3%
Efficacy: 33.1 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.43 / 1.35
Luminous Opening: Rectangular (W 0.57' x L: 1.92' x H: 0')
CIE Type: Direct

Input Watts (W): 48
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									70									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	50	30	10	0														
RCR																																						
0	65	65	65	65	63	63	63	63	60	60	60	58	58	58	55	55	55	54						54														
1	60	58	56	54	59	57	55	53	54	53	52	52	51	50	50	49	48	47						47														
2	55	51	48	45	54	50	47	45	49	46	44	47	45	43	45	43	42	41						41														
3	51	46	42	39	50	45	41	38	43	40	38	42	39	37	41	38	37	35						35														
4	47	41	37	34	46	40	36	33	39	36	33	38	35	32	37	34	32	31						31														
5	43	37	33	29	42	36	32	29	35	32	29	34	31	29	33	31	28	27						27														
6	40	34	29	26	39	33	29	26	32	28	26	31	28	25	30	27	25	24						24														
7	37	31	26	23	37	30	26	23	29	26	23	29	25	23	28	25	23	22						22														
8	35	28	24	21	34	28	24	21	27	23	21	26	23	20	26	23	20	19						19														
9	33	26	22	19	32	26	21	19	25	21	19	24	21	19	24	21	18	18						18														
10	31	24	20	17	30	24	20	17	23	19	17	23	19	17	22	19	17	16						16														

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6311	6311	6311
5°	6473	6473	6414
10°	6468	6498	6498
15°	7061	7132	7203
20°	6674	6716	6872
25°	6606	6790	6920
30°	6235	6495	6665
35°	6639	7046	7285
40°	5961	6447	6780
45°	5017	5488	5890
50°	4299	4543	5016
55°	3707	3912	4237
60°	3234	3312	3685
65°	2736	2667	3038
70°	2292	2006	2292
75°	2082	1742	1931
80°	1467	1298	1354
85°	787	787	899



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	62.3	3.9	2.1	0°	644	644	644	644	644	
10°-20°	191.8	12.1	6.6	5°	658	656	658	656	652	62
20°-30°	285.2	17.9	9.7	15°	696	700	703	710	710	190
30°-40°	351.4	22.1	12.0	25°	611	618	628	637	640	278
40°-50°	306.4	19.3	10.5	35°	555	564	589	605	609	333
50°-60°	209.2	13.2	7.2	45°	362	372	396	415	425	283
60°-70°	120.1	7.6	4.1	55°	217	220	229	242	248	197
70°-80°	51.7	3.3	1.8	65°	118	115	115	122	131	119
80°-90°	10.6	0.7	0.4	75°	55	49	46	48	51	57
90°-100°	0.0	0.0	0.0	85°	7	8	7	8	8	11
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	
110°-120°	0.0	0.0	0.0							
120°-130°	0.0	0.0	0.0							
130°-140°	0.0	0.0	0.0							
140°-150°	0.0	0.0	0.0							
150°-160°	0.0	0.0	0.0							
160°-170°	0.0	0.0	0.0							
170°-180°	0.0	0.0	0.0							
0°-30°	539.3	33.9	18.4							
0°-40°	890.6	56.1	30.4							
0°-60°	1406.3	88.5	48.1							
0°-90°	1588.7	100.0	54.3							
90°-120°	0.0	0.0	0.0							
90°-150°	0.0	0.0	0.0							
90°-180°	0.0	0.0	0.0							
0°-180°	1588.7	100.0	54.3							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	644	644	644	644	644
5°	658	656	658	656	652
10°	650	649	653	655	653
15°	696	700	703	710	710
20°	640	641	644	652	659
25°	611	618	628	637	640
30°	551	555	574	583	589
35°	555	564	589	605	609
40°	466	478	504	525	530
45°	362	372	396	415	425
50°	282	289	298	315	329
55°	217	220	229	242	248
60°	165	165	169	182	188
65°	118	115	115	122	131
70°	80	74	70	74	80
75°	55	49	46	48	51
80°	26	24	23	23	24
85°	7	8	7	8	8
90°	0	0	0	0	0

(END OF REPORT)