

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: P184340

Luminaire Tested: **ENW/ENC-12-2-LD1-17-40-CA125-UNV-EDC1**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P184340  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: ENW/ENC-12-2-LD1-17-40-CA125-UNV-EDC1  
Description: FAIL-SAFE 1X2 ENCOUNTER W/ 0.125" THICK CLEAR ACRYLIC LENS  
Light Source: 4000K LEDS  
Ballast/Driver: -

**Summary**

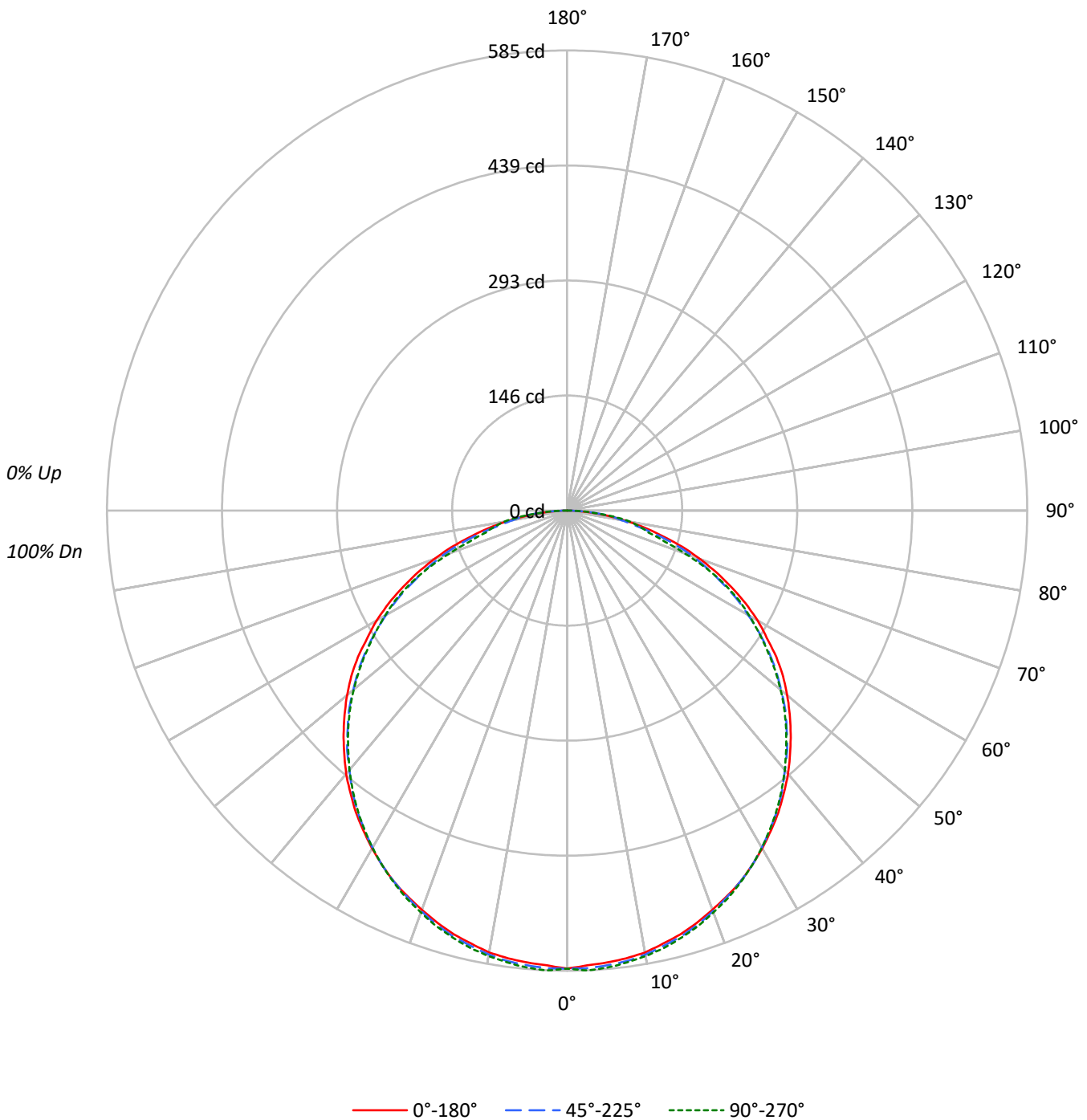
Lumens per Lamp: N/A  
Luminaire Lumens: 1714.7 lumens  
Efficiency: N/A  
Efficacy: 91.2 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.26 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 2' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 18.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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				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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	45	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	32
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25	37	30	25	36	30	25	23

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3134	3134	3134
5°	3103	3107	3124
10°	3090	3074	3088
15°	3065	3036	3050
20°	3037	2988	3005
25°	3022	2946	2959
30°	2995	2898	2908
35°	2973	2847	2853
40°	2947	2777	2790
45°	2914	2716	2724
50°	2887	2640	2650
55°	2844	2549	2553
60°	2771	2418	2456
65°	2656	2252	2315
70°	2482	2074	1964
75°	2210	1741	1616
80°	1842	1353	1620
85°	1265	1027	1034



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.2	3.2
10°-20°	158.0	9.2
20°-30°	240.0	14.0
30°-40°	291.3	17.0
40°-50°	305.7	17.8
50°-60°	281.6	16.4
60°-70°	218.8	12.8
70°-80°	125.0	7.3
80°-90°	39.3	2.3
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°	453.1	26.4
0°-40°	744.4	43.4
0°-60°	1331.7	77.7
0°-90°	1714.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1714.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	582	582	582	582	582	
5°	577	579	580	582	583	55
15°	558	558	560	561	562	157
25°	521	520	521	521	522	240
35°	468	467	466	465	465	293
45°	402	400	395	392	394	310
55°	325	321	313	310	311	289
65°	231	226	217	219	221	228
75°	126	123	117	106	107	134
85°	32	33	37	36	36	37
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	582.3	582.3	582.3	582.3	582.3
2.5°	578.7	580.5	582.3	584.2	585.1
5°	576.8	578.7	580.5	582.3	583.3
7.5°	574.1	575.0	577.7	579.6	579.6
10°	570.4	570.4	573.1	575.0	575.0
12.5°	563.9	564.9	566.7	568.5	569.5
15°	557.5	558.4	560.3	561.2	562.1
17.5°	549.2	550.1	552.0	552.9	553.8
20°	540.0	540.9	541.9	542.8	543.7
22.5°	530.8	530.8	531.7	532.7	533.6
25°	520.7	519.8	520.7	520.7	521.6
27.5°	508.7	508.7	508.7	507.8	508.7
30°	495.9	495.9	494.9	494.0	494.9
32.5°	482.1	482.1	480.2	479.3	480.2
35°	468.3	467.3	465.5	464.6	464.6
37.5°	452.6	450.8	448.9	447.1	448.0
40°	437.0	435.1	430.5	428.7	430.5
42.5°	419.5	417.7	414.0	411.2	412.1
45°	402.0	400.2	394.7	391.9	393.7
47.5°	383.7	381.8	376.3	373.5	374.5
50°	365.3	361.5	355.1	352.3	354.2
52.5°	345.9	342.3	334.9	331.2	333.1
55°	324.7	321.1	312.8	310.1	310.9
57.5°	300.9	299.0	289.8	287.1	288.9
60°	279.7	275.1	265.9	264.9	267.7
62.5°	255.7	250.3	242.9	241.9	245.7
65°	230.9	226.3	217.1	218.9	220.8
67.5°	205.1	200.5	193.2	193.2	191.3
70°	179.4	173.9	170.2	161.9	159.1
72.5°	153.7	149.1	144.5	130.7	128.8
75°	126.1	123.3	116.9	105.8	106.7
77.5°	101.2	100.3	90.1	90.1	94.7
80°	76.3	76.3	69.9	78.2	81.9
82.5°	53.3	51.5	57.1	59.8	60.7
85°	32.2	33.1	36.8	35.9	35.9
87.5°	13.8	14.7	15.7	15.7	15.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)