

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: P184344

Luminaire Tested: **ENW/ENC-12-2-LD1-27-40-CA125-UNV-EDC1**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P184344  
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-LD1-27-40-CA125-UNV-EDC1  
Description: FAIL-SAFE 1X2 ENCOUNTER W/ 0.125" THICK ACRYLIC LENS  
Light Source: 4000K LEDS  
Ballast/Driver: -

**Summary**

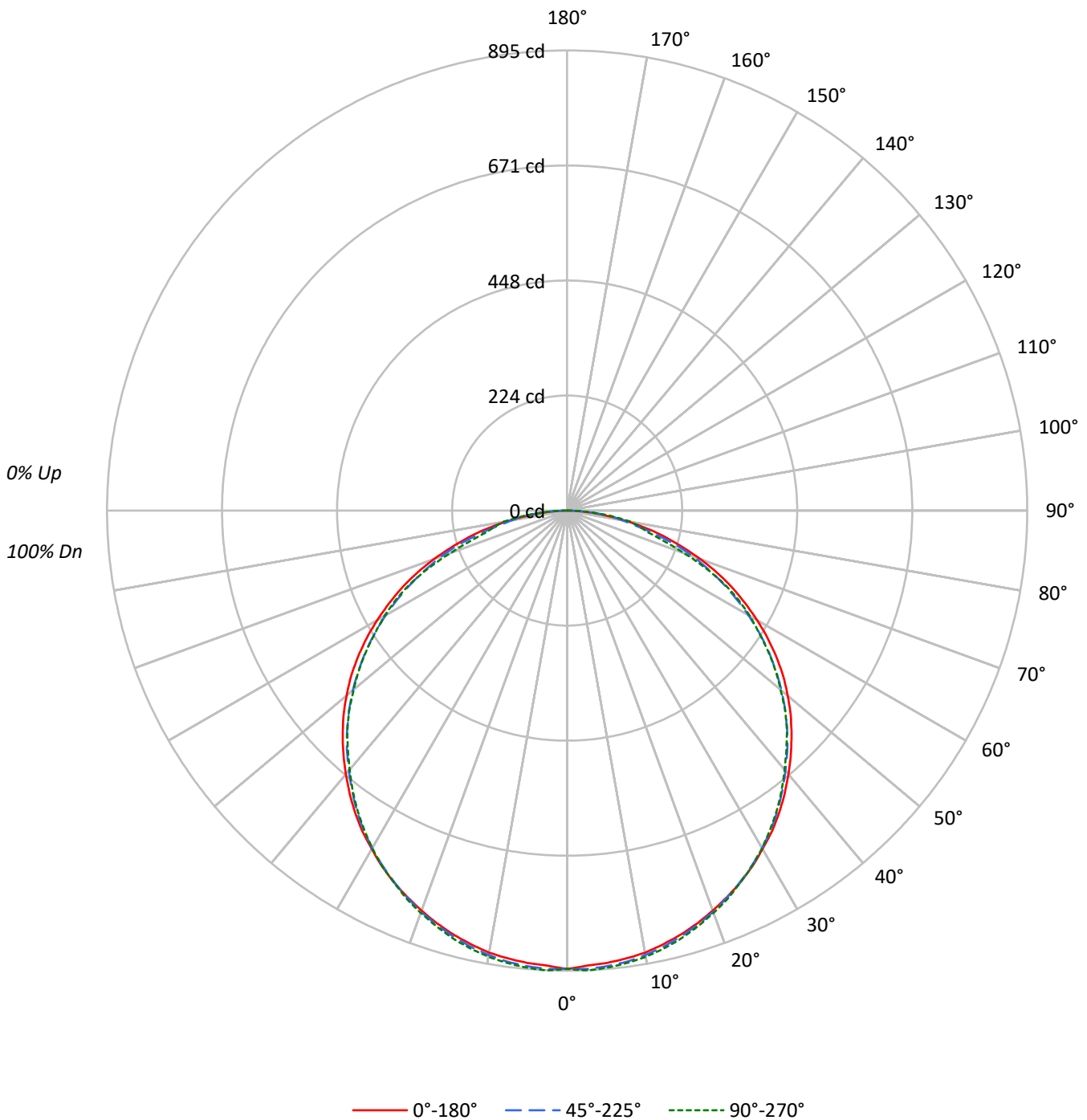
Lumens per Lamp: N/A  
Luminaire Lumens: 2626.0 lumens  
Efficiency: N/A  
Efficacy: 89.3 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.26 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 2' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 29.4  
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	104	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°	4798	4798	4798
5°	4751	4762	4779
10°	4730	4709	4733
15°	4694	4645	4673
20°	4657	4581	4601
25°	4628	4508	4525
30°	4590	4439	4454
35°	4561	4361	4366
40°	4516	4261	4264
45°	4475	4165	4182
50°	4427	4048	4054
55°	4351	3898	3921
60°	4229	3706	3764
65°	4074	3456	3531
70°	3806	3172	2986
75°	3433	2644	2452
80°	2823	2084	2474
85°	1882	1541	1617



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	84.5	3.2
10°-20°	241.9	9.2
20°-30°	367.7	14.0
30°-40°	446.3	17.0
40°-50°	468.5	17.8
50°-60°	431.1	16.4
60°-70°	335.0	12.8
70°-80°	191.3	7.3
80°-90°	59.7	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°	694.1	26.4
0°-40°	1140.4	43.4
0°-60°	2040.0	77.7
0°-90°	2626.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2626.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	892	892	892	892	892	
5°	883	886	890	892	892	84
15°	854	855	857	859	861	241
25°	798	798	797	798	798	368
35°	718	716	713	711	711	449
45°	617	613	605	601	604	476
55°	497	490	478	476	478	444
65°	354	346	333	337	337	349
75°	196	189	178	164	162	206
85°	48	50	55	54	56	56
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	891.5	891.5	891.5	891.5	891.5
2.5°	885.9	888.7	892.4	895.1	895.1
5°	883.2	885.9	889.6	892.4	892.4
7.5°	878.6	881.3	885.0	886.9	887.8
10°	873.1	874.0	877.7	880.4	881.3
12.5°	863.9	864.8	868.5	870.3	872.1
15°	853.7	854.7	857.4	859.3	861.1
17.5°	841.8	842.7	844.5	846.4	847.3
20°	828.0	828.9	830.7	831.7	832.6
22.5°	813.3	814.2	814.2	816.0	816.9
25°	797.6	797.6	796.7	798.5	797.6
27.5°	780.1	779.2	778.3	778.3	779.2
30°	759.9	759.0	758.1	758.1	758.1
32.5°	740.6	737.8	736.9	735.1	735.1
35°	718.5	715.7	713.0	711.1	711.1
37.5°	694.6	691.8	687.2	684.5	685.4
40°	669.7	667.0	660.5	657.8	657.8
42.5°	644.0	640.3	633.9	630.2	631.1
45°	617.3	612.7	605.3	600.7	604.4
47.5°	589.7	584.2	575.0	571.3	575.0
50°	560.3	554.7	544.6	540.0	541.9
52.5°	529.9	523.5	511.5	508.7	510.6
55°	496.8	490.3	478.4	475.6	477.5
57.5°	462.7	457.2	443.4	439.7	442.5
60°	426.9	420.4	407.5	405.7	410.3
62.5°	390.1	383.7	370.7	371.7	375.3
65°	354.2	345.9	333.1	336.7	336.7
67.5°	315.5	307.3	296.3	294.4	290.7
70°	275.1	268.7	260.3	248.4	241.9
72.5°	234.6	228.1	220.8	200.5	196.9
75°	195.9	188.6	177.5	163.7	161.9
77.5°	156.4	151.8	138.0	138.0	143.5
80°	116.9	115.0	107.7	119.6	125.1
82.5°	79.1	78.2	86.5	91.1	91.1
85°	47.9	49.7	55.2	54.3	56.1
87.5°	20.3	23.0	23.9	24.9	24.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)