

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: P184345

Luminaire Tested: **ENW/ENC-12-2-LD1-27-40-CP125-UNV-EDC1**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P184345  
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-CP125-UNV-EDC1  
Description: FAIL-SAFE 1X2 ENCOUNTER W/ 0.125" THICK POLY LENS  
Light Source: 4000K LEDS  
Ballast/Driver: -

**Summary**

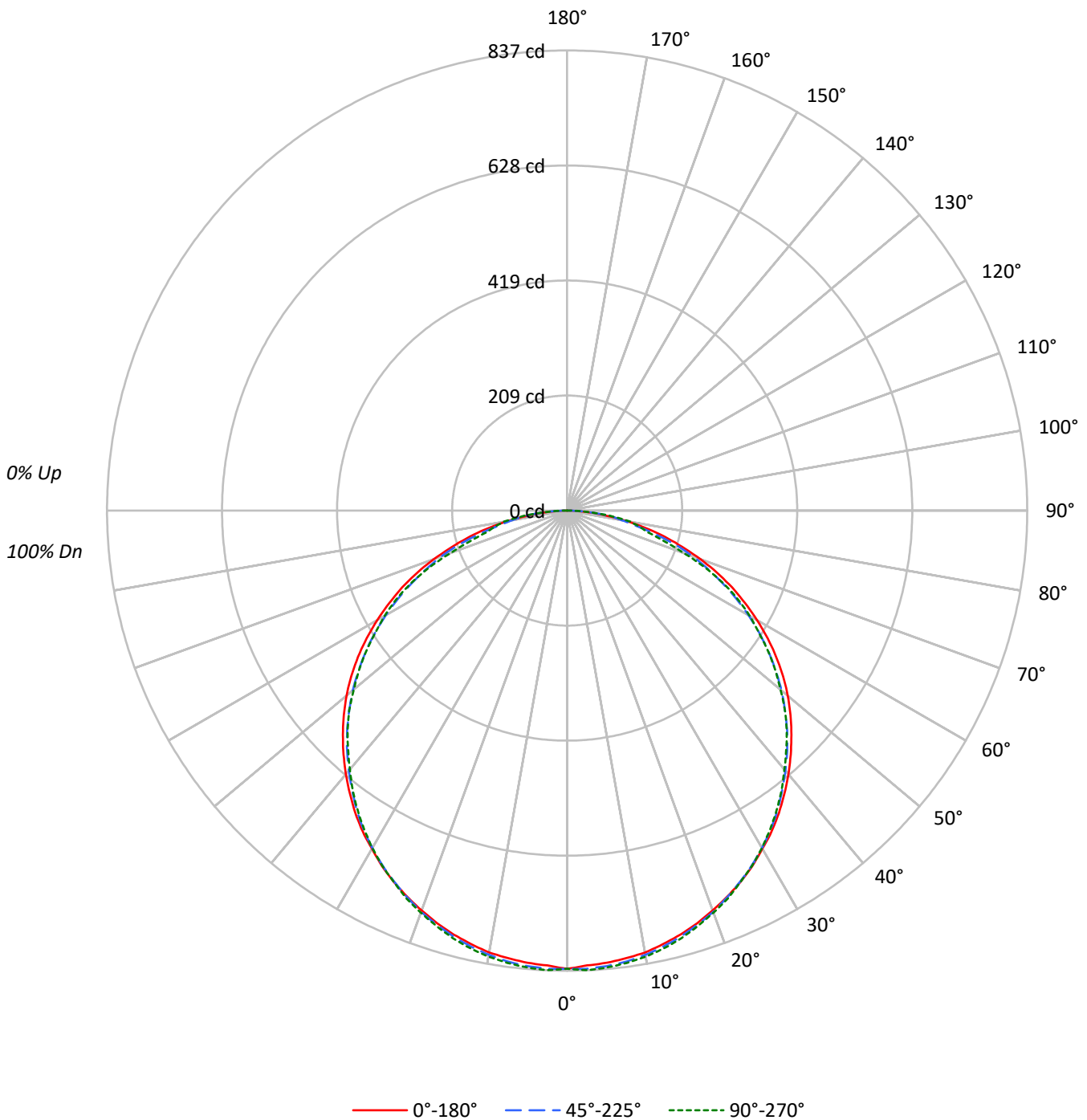
Lumens per Lamp: N/A  
Luminaire Lumens: 2454.8 lumens  
Efficiency: N/A  
Efficacy: 83.5 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.26 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 2' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 29.4  
Input Voltage (V): NR  
Input Current (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				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°	4485	4485	4485
5°	4441	4451	4468
10°	4422	4402	4425
15°	4388	4342	4368
20°	4354	4283	4301
25°	4327	4214	4230
30°	4290	4150	4164
35°	4263	4076	4082
40°	4222	3984	3986
45°	4183	3894	3909
50°	4139	3784	3790
55°	4067	3644	3665
60°	3953	3465	3519
65°	3808	3230	3300
70°	3558	2966	2792
75°	3210	2473	2291
80°	2637	1947	2312
85°	1756	1440	1510



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	79.0	3.2
10°-20°	226.2	9.2
20°-30°	343.7	14.0
30°-40°	417.2	17.0
40°-50°	437.9	17.8
50°-60°	403.0	16.4
60°-70°	313.1	12.8
70°-80°	178.8	7.3
80°-90°	55.8	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°	648.8	26.4
0°-40°	1066.1	43.4
0°-60°	1907.0	77.7
0°-90°	2454.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2454.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	833	833	833	833	833	
5°	826	828	832	834	834	79
15°	798	799	802	803	805	225
25°	746	746	745	746	746	344
35°	672	669	666	665	665	420
45°	577	573	566	562	565	445
55°	464	458	447	445	446	415
65°	331	323	311	315	315	326
75°	183	176	166	153	151	193
85°	45	46	52	51	52	52
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	833.4	833.4	833.4	833.4	833.4
2.5°	828.2	830.7	834.2	836.8	836.8
5°	825.6	828.2	831.6	834.2	834.2
7.5°	821.3	823.9	827.3	829.1	829.9
10°	816.2	817.0	820.5	823.0	823.9
12.5°	807.6	808.4	811.9	813.5	815.3
15°	798.1	799.0	801.5	803.3	804.9
17.5°	786.9	787.7	789.5	791.2	792.0
20°	774.0	774.8	776.6	777.5	778.3
22.5°	760.3	761.1	761.1	762.8	763.7
25°	745.6	745.6	744.7	746.5	745.6
27.5°	729.3	728.4	727.5	727.5	728.4
30°	710.3	709.5	708.7	708.7	708.7
32.5°	692.3	689.7	688.8	687.2	687.2
35°	671.6	669.1	666.5	664.8	664.8
37.5°	649.3	646.7	642.4	639.9	640.7
40°	626.1	623.5	617.5	614.9	614.9
42.5°	602.0	598.5	592.6	589.1	589.9
45°	577.0	572.7	565.9	561.6	565.0
47.5°	551.2	546.1	537.5	534.0	537.5
50°	523.8	518.6	509.1	504.8	506.6
52.5°	495.3	489.4	478.1	475.6	477.3
55°	464.4	458.4	447.2	444.6	446.4
57.5°	432.6	427.4	414.5	411.1	413.6
60°	399.1	393.0	381.0	379.2	383.5
62.5°	364.7	358.6	346.6	347.5	350.9
65°	331.1	323.3	311.3	314.7	314.7
67.5°	295.0	287.3	276.9	275.2	271.7
70°	257.2	251.1	243.4	232.2	226.2
72.5°	219.3	213.3	206.4	187.5	184.1
75°	183.2	176.3	166.0	153.1	151.3
77.5°	146.2	141.9	129.0	129.0	134.1
80°	109.2	107.5	100.6	111.8	116.9
82.5°	73.9	73.1	80.9	85.2	85.2
85°	44.7	46.5	51.6	50.8	52.4
87.5°	18.9	21.5	22.3	23.2	23.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)