

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: P184356

Luminaire Tested: **ENW/ENC-12-4-LD1-28-40-CA125-UNV-EDC1**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P184356  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P32841)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: ENW/ENC-12-4-LD1-28-40-CA125-UNV-EDC1  
Description: FAIL-SAFE 1X4 ENCOUNTER W/ 0.125" THICK ACRYLIC LENS  
Light Source: 4000K LEDS  
Ballast/Driver: -

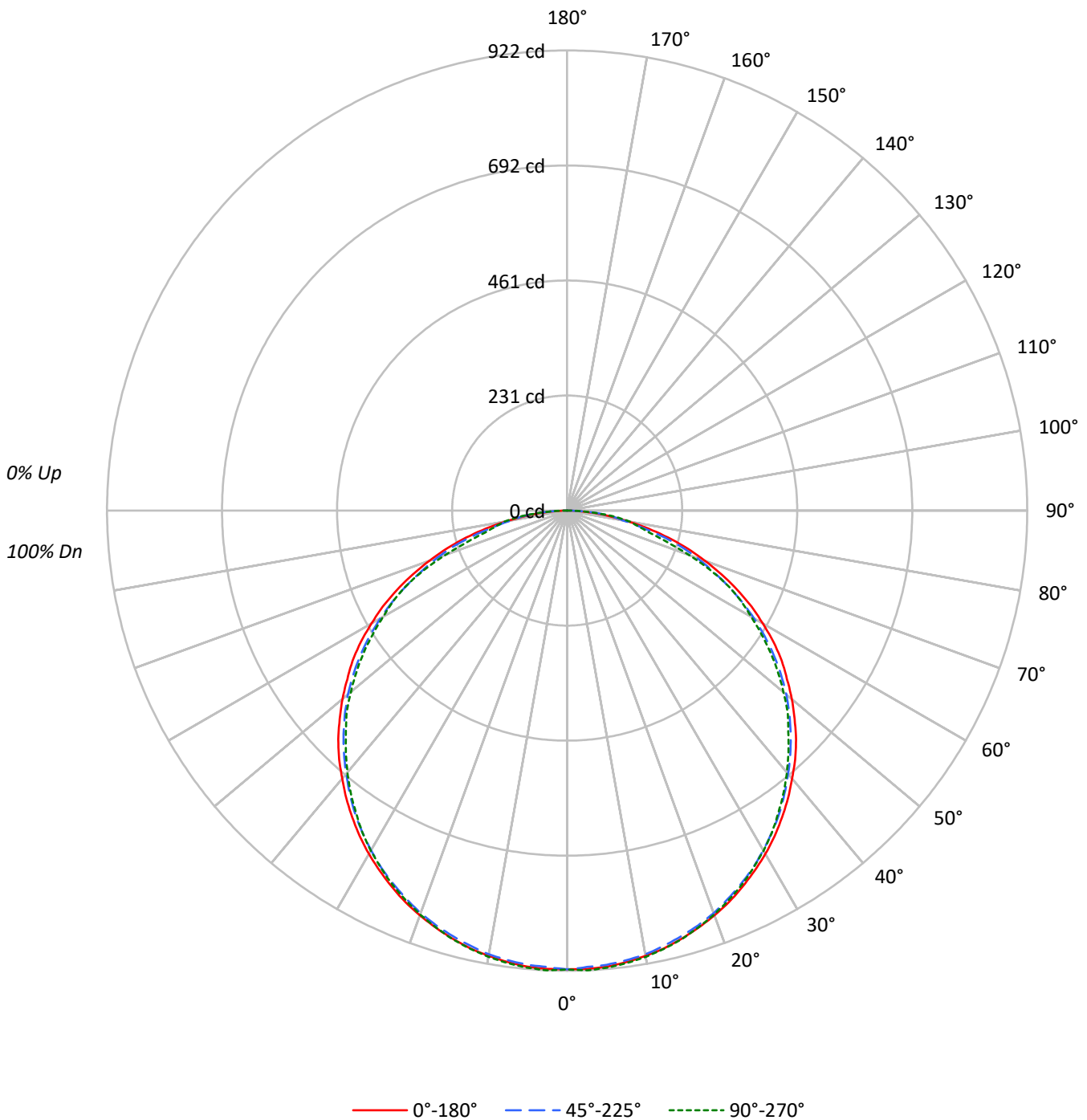
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2752.2 lumens  
Efficiency: N/A  
Efficacy: 96.2 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.4  
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.1')  
CIE Type: Direct  
  
Input Watts (W): 28.6  
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	103	99	95	106	101	97	93	97	94	90	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	65	61	69	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	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	39	51	44	39	50	43	39	37
7	64	50	41	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	41	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23

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

	0°	45°	90°
0°	2474	2474	2474
5°	2472	2449	2461
10°	2465	2430	2438
15°	2457	2403	2411
20°	2449	2381	2379
25°	2441	2352	2348
30°	2433	2323	2312
35°	2423	2293	2266
40°	2412	2252	2220
45°	2408	2215	2169
50°	2390	2172	2116
55°	2378	2107	2045
60°	2334	2019	1953
65°	2274	1897	1863
70°	2160	1755	1605
75°	1992	1519	1283
80°	1680	1180	1262
85°	1189	937	864



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	87.1	3.2
10°-20°	250.2	9.1
20°-30°	381.6	13.9
30°-40°	464.7	16.9
40°-50°	490.4	17.8
50°-60°	454.2	16.5
60°-70°	355.3	12.9
70°-80°	204.5	7.4
80°-90°	64.2	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°	718.9	26.1
0°-40°	1183.6	43.0
0°-60°	2128.3	77.3
0°-90°	2752.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2752.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	919	919	919	919	919	
5°	917	917	914	917	919	87
15°	888	888	883	887	889	251
25°	832	830	825	826	828	384
35°	751	747	741	738	738	470
45°	649	643	634	628	627	500
55°	525	518	506	499	498	468
65°	376	369	354	352	355	371
75°	210	202	194	173	170	221
85°	50	52	61	60	60	59
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	919.2	919.2	919.2	919.2	919.2
2.5°	919.2	919.2	915.4	920.2	922.1
5°	917.3	917.3	913.5	917.3	919.2
7.5°	912.5	912.5	908.7	912.5	914.5
10°	905.9	905.9	903.0	905.9	907.8
12.5°	898.3	897.4	893.5	897.4	899.2
15°	887.8	887.8	883.0	886.9	888.8
17.5°	876.3	875.4	871.6	873.5	875.4
20°	863.0	862.1	858.2	860.2	861.1
22.5°	848.7	846.9	842.1	844.0	844.9
25°	831.6	829.7	824.9	825.8	827.8
27.5°	813.5	811.6	806.8	806.8	807.7
30°	794.4	791.6	785.8	785.8	786.9
32.5°	773.6	769.6	764.0	763.0	764.0
35°	750.6	746.8	741.2	738.2	738.2
37.5°	726.8	723.0	715.3	712.5	712.5
40°	701.1	698.3	688.7	684.9	684.9
42.5°	676.4	671.6	662.0	657.2	656.3
45°	648.7	643.0	633.5	627.7	626.8
47.5°	618.2	614.4	604.0	598.2	599.2
50°	587.8	585.0	573.4	566.8	565.8
52.5°	555.4	552.5	540.1	534.4	532.5
55°	524.9	518.2	505.8	499.1	498.2
57.5°	490.5	483.0	469.7	463.9	462.0
60°	452.5	446.8	432.5	425.7	425.7
62.5°	416.3	409.6	394.4	389.6	393.3
65°	376.3	368.7	354.4	352.4	355.3
67.5°	335.3	327.7	314.4	313.5	309.6
70°	293.4	286.8	277.2	266.7	260.0
72.5°	252.4	244.8	239.1	218.2	209.5
75°	209.5	201.9	194.3	173.3	169.5
77.5°	166.7	163.0	148.6	142.9	145.7
80°	123.8	126.6	114.3	123.8	127.6
82.5°	83.8	86.6	91.4	99.0	98.1
85°	49.5	52.4	61.0	60.0	60.0
87.5°	21.9	26.7	25.7	25.7	25.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)