

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: P184360

Luminaire Tested: **ENW/ENC-12-4-LD1-33-40-CA125-UNV-EDC1**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P184360  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P32842)  
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-LD1-33-40-CA125-UNV-EDC1  
Description: FAIL-SAFE 1X4 ENCOUNTER W/ 0.125" THICK CLEAR ACRYLIC LENS  
Light Source: 4000K LEDS  
Ballast/Driver: -

**Summary**

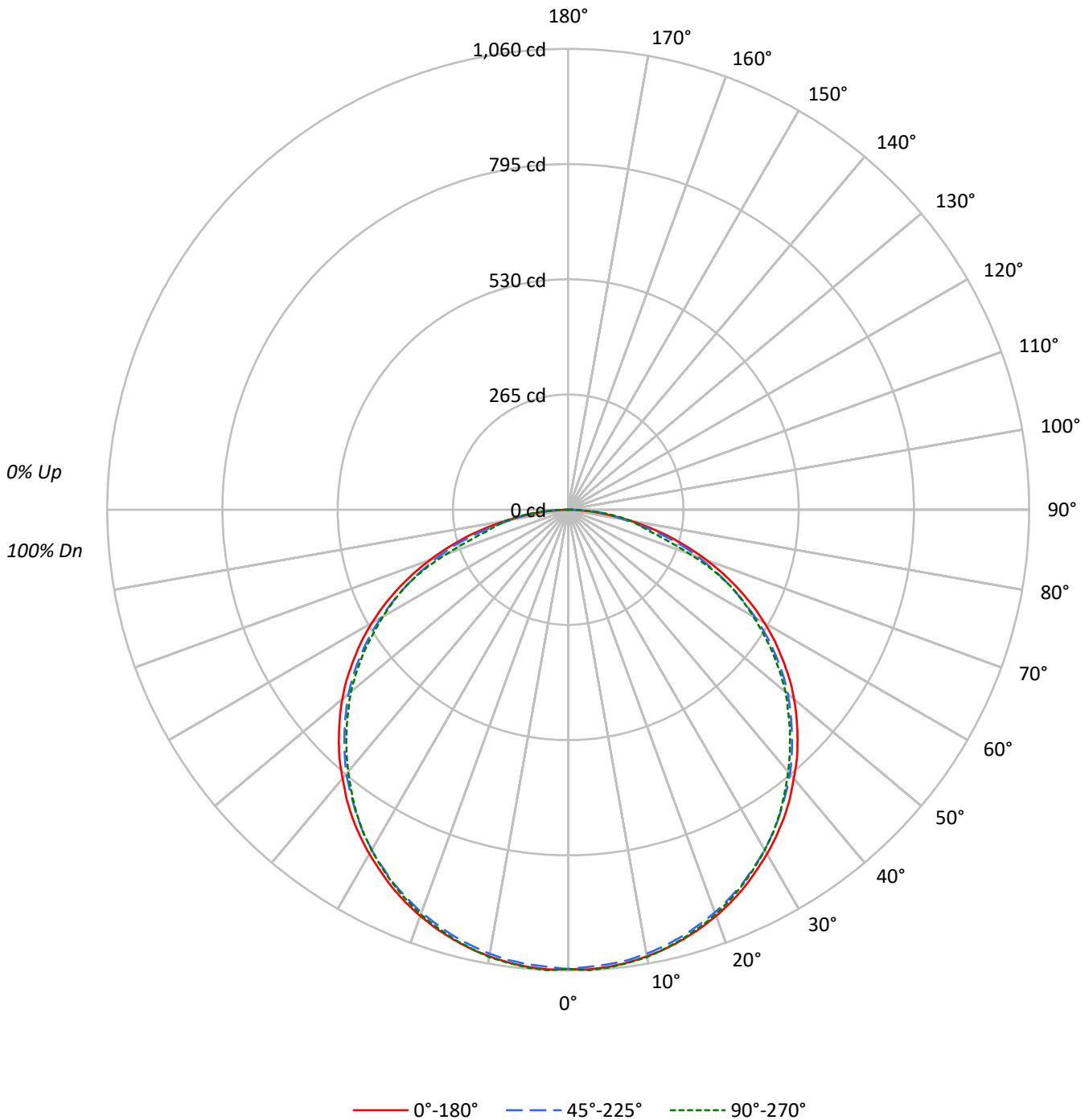
Lumens per Lamp: N/A  
Luminaire Lumens: 3164.9 lumens  
Efficiency: N/A  
Efficacy: 94.8 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.27 / 1.4  
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 33.4  
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

TEST NUMBER: P184360

CATALOG NUMBER: ENW/ENC-12-4-LD1-33-40-CA125-UNV-EDC1

### Luminous Intensity Polar Plot





TEST NUMBER: P184360

CATALOG NUMBER: ENW/ENC-12-4-LD1-33-40-CA125-UNV-EDC1

**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°	2843	2843	2843
5°	2845	2814	2831
10°	2838	2791	2806
15°	2831	2764	2771
20°	2822	2735	2737
25°	2812	2706	2697
30°	2801	2672	2655
35°	2793	2631	2609
40°	2776	2595	2550
45°	2769	2545	2495
50°	2757	2497	2441
55°	2727	2424	2358
60°	2688	2321	2255
65°	2614	2182	2142
70°	2489	2021	1834
75°	2310	1750	1479
80°	1939	1348	1451
85°	1328	1097	988



TEST NUMBER: P184360

CATALOG NUMBER: ENW/ENC-12-4-LD1-33-40-CA125-UNV-EDC1

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.2	3.2
10°-20°	287.8	9.1
20°-30°	438.7	13.9
30°-40°	534.4	16.9
40°-50°	564.1	17.8
50°-60°	522.7	16.5
60°-70°	408.6	12.9
70°-80°	235.0	7.4
80°-90°	73.4	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°	826.6	26.1
0°-40°	1361.0	43.0
0°-60°	2447.8	77.3
0°-90°	3164.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3164.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1056	1056	1056	1056	1056	
5°	1056	1054	1050	1054	1057	100
15°	1023	1020	1016	1019	1021	289
25°	958	954	949	950	951	442
35°	865	859	851	849	850	541
45°	746	741	728	722	721	575
55°	602	597	582	574	574	539
65°	432	424	408	407	409	427
75°	243	232	224	200	195	255
85°	55	60	71	68	69	67
90°	0	0	0	0	0	



TEST NUMBER: P184360

CATALOG NUMBER: ENW/ENC-12-4-LD1-33-40-CA125-UNV-EDC1

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1056.4	1056.4	1056.4	1056.4	1056.4
2.5°	1058.4	1057.3	1052.6	1057.3	1060.2
5°	1055.5	1054.5	1049.7	1054.5	1057.3
7.5°	1050.7	1049.7	1045.0	1049.7	1051.6
10°	1043.1	1041.1	1037.3	1042.1	1045.0
12.5°	1034.5	1031.6	1026.9	1031.6	1033.5
15°	1023.1	1020.2	1015.5	1019.2	1021.2
17.5°	1009.7	1006.8	1001.1	1005.0	1006.8
20°	994.5	991.6	985.9	988.8	990.6
22.5°	977.4	973.5	967.8	968.7	971.6
25°	958.2	954.4	948.8	949.7	950.7
27.5°	936.3	932.6	925.9	926.8	927.8
30°	914.5	910.7	903.9	903.0	903.9
32.5°	890.6	885.8	878.3	876.3	878.3
35°	865.0	859.3	850.6	848.7	849.7
37.5°	837.3	832.6	822.1	819.3	818.2
40°	806.8	803.0	793.5	787.8	786.9
42.5°	778.2	772.5	761.1	756.3	754.5
45°	745.9	741.2	727.8	722.1	721.1
47.5°	712.5	706.8	693.5	687.7	685.9
50°	678.2	672.5	659.2	651.5	652.5
52.5°	642.0	635.4	622.0	614.4	613.4
55°	602.0	597.2	581.9	574.4	574.4
57.5°	563.9	556.3	541.0	532.5	532.5
60°	521.1	512.5	497.3	489.6	491.5
62.5°	478.2	470.6	452.5	448.6	451.6
65°	432.5	424.0	407.7	406.7	408.6
67.5°	385.7	376.3	362.0	361.0	357.2
70°	338.1	328.6	319.2	306.7	297.2
72.5°	289.6	282.0	274.3	249.6	241.1
75°	242.9	231.5	223.8	200.0	195.3
77.5°	192.4	187.7	171.5	163.0	167.7
80°	142.9	145.7	130.6	140.9	146.7
82.5°	96.2	100.0	104.8	112.5	111.4
85°	55.3	60.0	71.4	67.6	68.6
87.5°	23.8	29.6	30.4	29.6	30.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)