

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: P184363

Luminaire Tested: **ENW/ENC-12-4-LD1-33-40-CP250-UNV-EDC1**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P184363  
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-CP250-UNV-EDC1  
Description: FAIL-SAFE 1X4 ENCOUNTER W/ 0.250" THICK CLEAR POLY LENS  
Light Source: 4000K LEDS  
Ballast/Driver: -

**Summary**

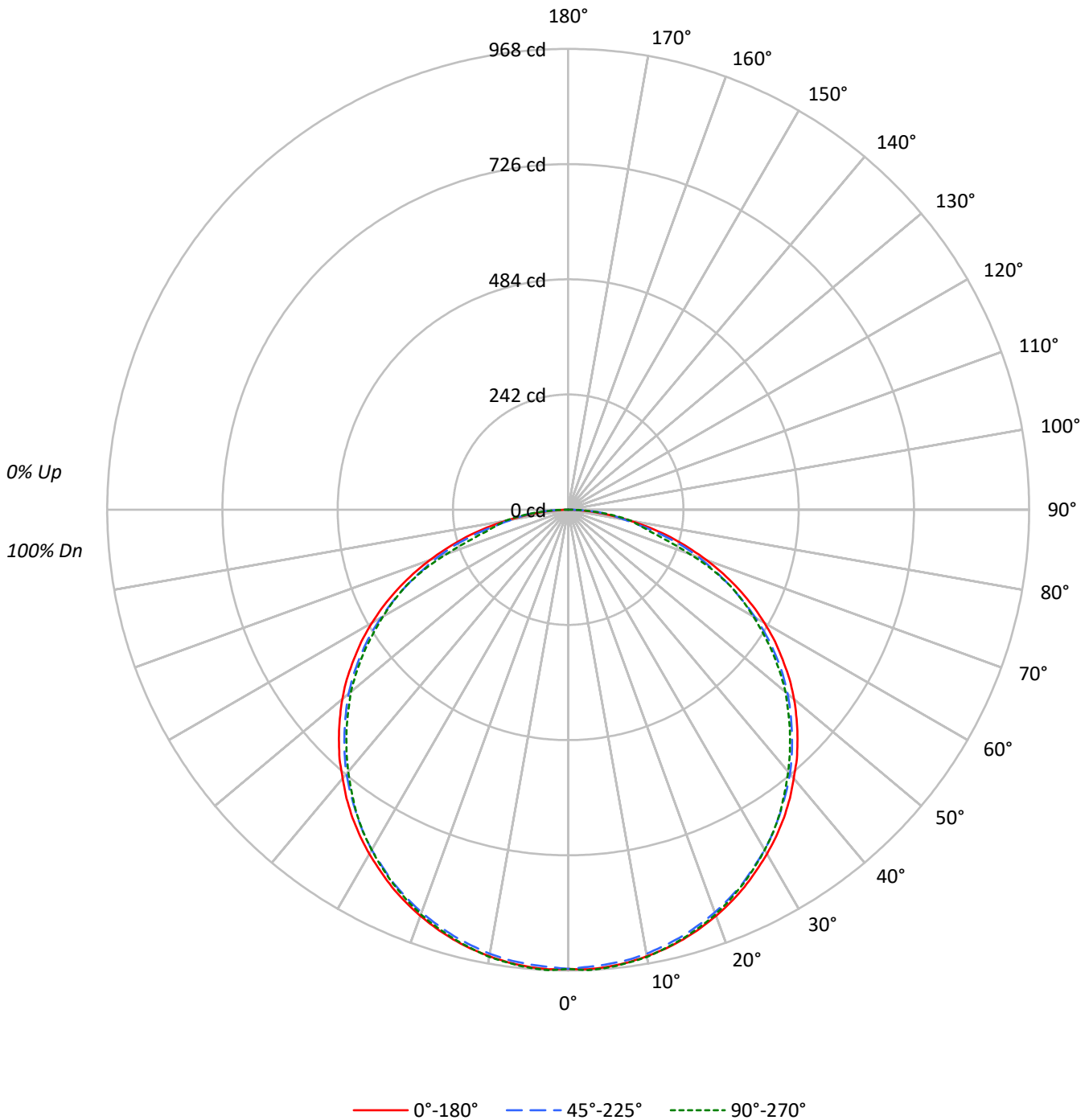
Lumens per Lamp: N/A  
Luminaire Lumens: 2889.7 lumens  
Efficiency: N/A  
Efficacy: 86.5 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.27 / 1.4  
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 33.4  
Input Voltage (V): NR  
Input Current (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	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°	2596	2596	2596
5°	2598	2569	2585
10°	2591	2548	2562
15°	2585	2523	2530
20°	2577	2498	2499
25°	2568	2470	2462
30°	2558	2440	2424
35°	2550	2403	2382
40°	2535	2369	2329
45°	2528	2323	2278
50°	2518	2279	2229
55°	2490	2213	2153
60°	2454	2119	2059
65°	2387	1993	1956
70°	2273	1845	1675
75°	2109	1598	1351
80°	1771	1230	1325
85°	1213	1001	902



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	91.5	3.2
10°-20°	262.7	9.1
20°-30°	400.5	13.9
30°-40°	488.0	16.9
40°-50°	515.0	17.8
50°-60°	477.3	16.5
60°-70°	373.1	12.9
70°-80°	214.6	7.4
80°-90°	67.1	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°	754.7	26.1
0°-40°	1242.7	43.0
0°-60°	2235.0	77.3
0°-90°	2889.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2889.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	965	965	965	965	965	
5°	964	963	958	963	965	92
15°	934	932	927	931	932	264
25°	875	871	866	867	868	403
35°	790	785	777	775	776	494
45°	681	677	664	659	658	525
55°	550	545	531	524	524	492
65°	395	387	372	371	373	390
75°	222	211	204	183	178	232
85°	50	55	65	62	63	61
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	964.6	964.6	964.6	964.6	964.6
2.5°	966.3	965.4	961.1	965.4	968.0
5°	963.7	962.8	958.4	962.8	965.4
7.5°	959.4	958.4	954.1	958.4	960.2
10°	952.4	950.6	947.1	951.5	954.1
12.5°	944.5	941.9	937.6	941.9	943.6
15°	934.2	931.5	927.2	930.6	932.4
17.5°	921.9	919.2	914.1	917.6	919.2
20°	908.0	905.4	900.2	902.8	904.5
22.5°	892.4	888.9	883.7	884.5	887.1
25°	874.9	871.4	866.3	867.1	868.0
27.5°	854.9	851.5	845.3	846.2	847.1
30°	835.0	831.5	825.3	824.5	825.3
32.5°	813.2	808.8	801.9	800.1	801.9
35°	789.8	784.6	776.6	774.9	775.8
37.5°	764.5	760.2	750.6	748.0	747.0
40°	736.7	733.2	724.5	719.3	718.5
42.5°	710.5	705.3	695.0	690.6	688.9
45°	681.0	676.7	664.5	659.3	658.4
47.5°	650.5	645.4	633.2	627.9	626.2
50°	619.3	614.0	601.8	594.9	595.8
52.5°	586.2	580.1	567.9	561.0	560.1
55°	549.7	545.3	531.3	524.5	524.5
57.5°	514.9	507.9	494.0	486.2	486.2
60°	475.8	468.0	454.0	447.1	448.8
62.5°	436.6	429.6	413.1	409.6	412.3
65°	394.9	387.1	372.3	371.4	373.1
67.5°	352.2	343.6	330.5	329.6	326.2
70°	308.7	300.1	291.4	280.1	271.4
72.5°	264.4	257.4	250.5	227.9	220.1
75°	221.8	211.3	204.4	182.7	178.4
77.5°	175.7	171.4	156.6	148.8	153.1
80°	130.5	133.1	119.2	128.7	134.0
82.5°	87.8	91.3	95.7	102.7	101.7
85°	50.5	54.8	65.2	61.7	62.6
87.5°	21.7	27.0	27.8	27.0	27.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)