

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: P184373

Luminaire Tested: **ENW/ENC-24-2-LD1-34-40-CP125-UNV-EDC1**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P184373  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: ENW/ENC-24-2-LD1-34-40-CP125-UNV-EDC1  
Description: FAIL-SAFE 2X2 ENCOUNTER W/ 0.125" THICK CLEAR POLY LENS  
Light Source: 4000K LEDS  
Ballast/Driver: -

**Summary**

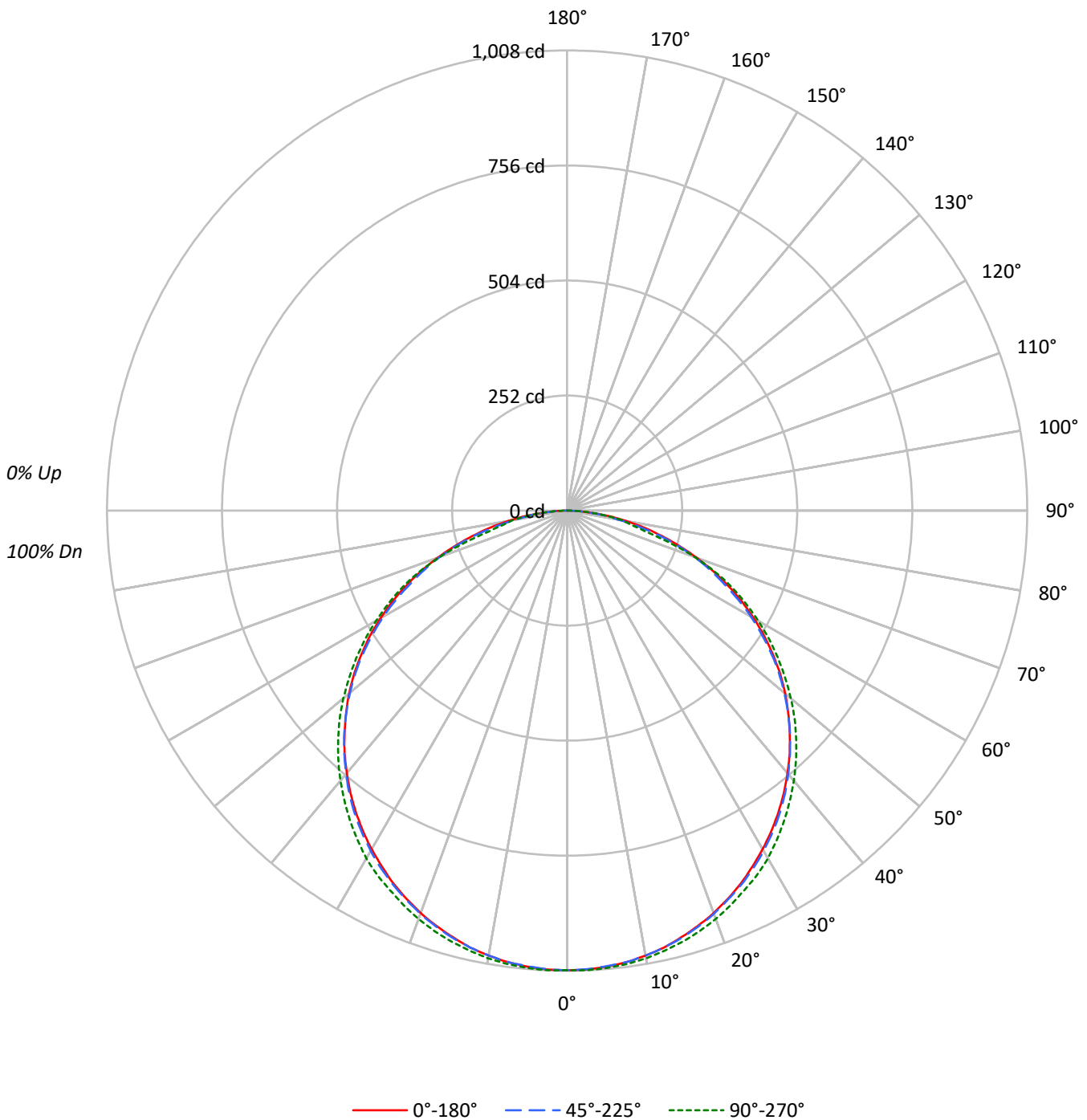
Lumens per Lamp: N/A  
Luminaire Lumens: 2980.8 lumens  
Efficiency: N/A  
Efficacy: 85.7 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.29 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 34.8  
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	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	46	57	50	45	55	49	45	42
6	69	56	47	40	68	55	46	40	53	45	40	51	45	39	50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	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	39	31	26	37	30	26	37	30	25	36	30	25	24

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

	0°	45°	90°
0°	2710	2710	2710
5°	2697	2690	2704
10°	2681	2671	2698
15°	2660	2650	2688
20°	2639	2624	2677
25°	2615	2598	2662
30°	2587	2570	2657
35°	2560	2539	2632
40°	2531	2498	2604
45°	2500	2455	2572
50°	2463	2397	2528
55°	2410	2327	2470
60°	2339	2231	2394
65°	2235	2097	2295
70°	2088	1955	2058
75°	1877	1704	1560
80°	1578	1245	1463
85°	963	852	1030



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	95.4	3.2
10°-20°	274.1	9.2
20°-30°	418.1	14.0
30°-40°	509.4	17.1
40°-50°	535.8	18.0
50°-60°	492.0	16.5
60°-70°	381.8	12.8
70°-80°	215.1	7.2
80°-90°	59.0	2.0
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°	787.6	26.4
0°-40°	1297.0	43.5
0°-60°	2324.8	78.0
0°-90°	2980.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2980.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1007	1007	1007	1007	1007	
5°	1003	1003	1002	1005	1005	95
15°	968	968	969	974	978	273
25°	901	901	904	912	918	415
35°	807	808	811	820	829	505
45°	690	689	691	701	710	532
55°	550	547	546	553	564	492
65°	389	385	379	388	399	384
75°	214	212	207	185	178	227
85°	49	47	50	51	52	61
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1007.0	1007.0	1007.0	1007.0	1007.0
2.5°	1006.2	1005.4	1005.4	1007.0	1007.9
5°	1002.7	1002.7	1001.9	1005.4	1005.4
7.5°	997.6	996.8	997.6	1001.1	1001.9
10°	989.8	989.0	989.8	993.3	995.9
12.5°	980.4	980.4	980.4	984.7	987.3
15°	967.5	968.3	969.2	974.4	977.8
17.5°	953.8	953.8	955.4	961.5	965.8
20°	938.2	938.2	940.0	946.8	952.0
22.5°	920.2	921.0	921.9	930.5	935.7
25°	901.3	901.3	903.8	912.4	917.6
27.5°	878.9	880.7	883.2	892.7	900.4
30°	856.5	857.4	860.8	870.3	879.8
32.5°	832.5	833.4	836.8	846.3	854.9
35°	806.7	807.6	811.0	820.5	829.1
37.5°	780.0	780.0	783.4	793.8	801.5
40°	750.8	750.8	753.3	763.7	772.3
42.5°	721.6	719.8	722.4	732.7	742.2
45°	689.7	688.8	690.6	700.9	709.5
47.5°	657.1	656.2	656.2	665.7	675.9
50°	623.5	620.9	620.9	629.5	639.9
52.5°	588.3	584.8	584.8	592.6	602.0
55°	550.4	546.9	546.1	553.0	564.1
57.5°	512.5	508.2	505.7	512.5	524.6
60°	472.2	468.7	465.2	471.3	483.3
62.5°	431.7	427.4	422.2	430.0	441.2
65°	388.7	385.3	379.2	387.8	399.1
67.5°	345.7	342.3	338.0	344.0	350.9
70°	301.8	299.3	296.7	295.9	297.5
72.5°	257.2	255.4	253.7	242.5	237.3
75°	214.2	212.4	207.2	184.9	178.0
77.5°	172.0	171.2	157.4	141.1	142.7
80°	130.7	128.2	112.6	116.9	121.2
82.5°	91.1	86.0	82.5	84.3	86.0
85°	49.0	47.3	49.9	50.8	52.4
87.5°	19.8	19.8	21.5	23.2	23.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)