

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: P184329

Luminaire Tested: **ENW/ENC-24-2-LD1-34-40-CA080-UNV-EDC1**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P184329  
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-CA080-UNV-EDC1  
Description: FAIL-SAFE 2X2 ENCOUNTER W/ 0.080" THICK CLEAR ACRYLIC LENS  
Light Source: 4000K LEDS  
Ballast/Driver: -

**Summary**

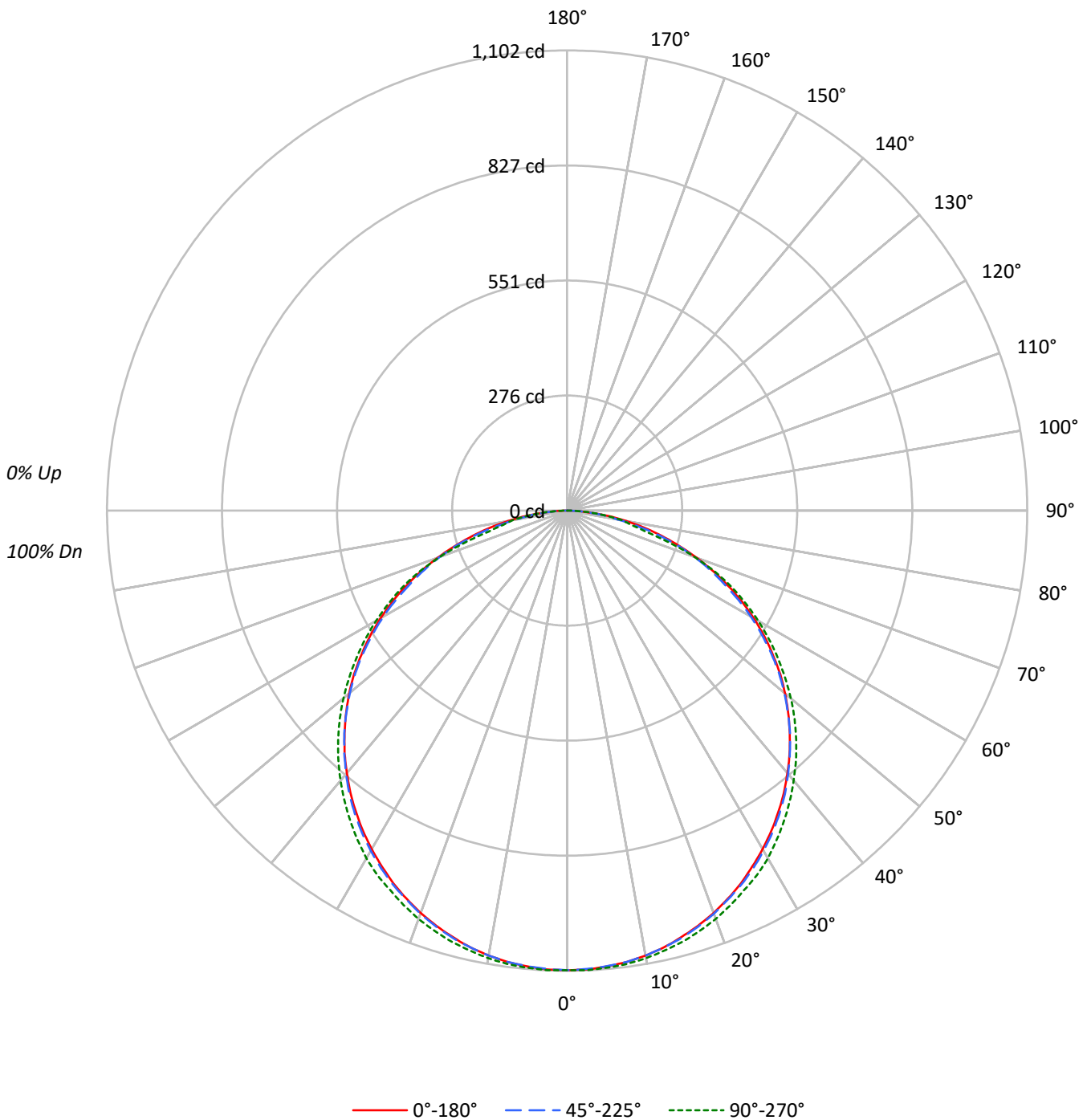
Lumens per Lamp: N/A  
Luminaire Lumens: 3258.0 lumens  
Efficiency: N/A  
Efficacy: 93.6 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.29 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 34.8  
Input Voltage (V): NR  
Input Current (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	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°	2962	2962	2962
5°	2948	2940	2955
10°	2930	2920	2948
15°	2907	2897	2938
20°	2884	2868	2927
25°	2858	2840	2910
30°	2827	2809	2904
35°	2798	2775	2876
40°	2767	2730	2846
45°	2732	2683	2811
50°	2693	2620	2763
55°	2634	2544	2700
60°	2556	2438	2617
65°	2444	2292	2508
70°	2282	2136	2250
75°	2051	1863	1705
80°	1725	1362	1600
85°	1053	931	1126



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.3	3.2
10°-20°	299.6	9.2
20°-30°	457.0	14.0
30°-40°	556.8	17.1
40°-50°	585.6	18.0
50°-60°	537.8	16.5
60°-70°	417.3	12.8
70°-80°	235.1	7.2
80°-90°	64.5	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°	860.9	26.4
0°-40°	1417.7	43.5
0°-60°	2541.1	78.0
0°-90°	3258.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3258.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1101	1101	1101	1101	1101	
5°	1096	1096	1095	1099	1099	104
15°	1058	1058	1059	1065	1069	299
25°	985	985	988	997	1003	454
35°	882	883	886	897	906	552
45°	754	753	755	766	776	582
55°	602	598	597	604	617	538
65°	425	421	414	424	436	420
75°	234	232	226	202	195	248
85°	54	52	54	56	57	67
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1100.7	1100.7	1100.7	1100.7	1100.7
2.5°	1099.8	1098.9	1098.9	1100.7	1101.7
5°	1096.0	1096.0	1095.1	1098.9	1098.9
7.5°	1090.4	1089.5	1090.4	1094.2	1095.1
10°	1081.9	1081.0	1081.9	1085.7	1088.5
12.5°	1071.6	1071.6	1071.6	1076.3	1079.1
15°	1057.5	1058.4	1059.4	1065.0	1068.8
17.5°	1042.5	1042.5	1044.3	1050.9	1055.6
20°	1025.5	1025.5	1027.4	1034.9	1040.6
22.5°	1005.8	1006.7	1007.7	1017.1	1022.7
25°	985.1	985.1	987.9	997.3	1003.0
27.5°	960.7	962.6	965.4	975.7	984.2
30°	936.2	937.2	940.9	951.3	961.6
32.5°	909.9	910.9	914.6	925.0	934.4
35°	881.7	882.7	886.4	896.8	906.2
37.5°	852.6	852.6	856.3	867.6	876.1
40°	820.6	820.6	823.4	834.7	844.1
42.5°	788.7	786.8	789.6	800.9	811.2
45°	753.9	752.9	754.8	766.1	775.5
47.5°	718.2	717.2	717.2	727.6	738.8
50°	681.5	678.7	678.7	688.1	699.4
52.5°	643.0	639.2	639.2	647.7	658.0
55°	601.6	597.8	596.9	604.4	616.6
57.5°	560.2	555.5	552.7	560.2	573.4
60°	516.1	512.3	508.5	515.1	528.3
62.5°	471.9	467.2	461.5	470.0	482.2
65°	424.9	421.1	414.5	423.9	436.2
67.5°	377.9	374.1	369.4	376.0	383.5
70°	329.9	327.1	324.3	323.4	325.2
72.5°	281.1	279.2	277.3	265.1	259.4
75°	234.1	232.2	226.5	202.1	194.6
77.5°	188.0	187.1	172.0	154.2	156.0
80°	142.9	140.1	123.1	127.8	132.5
82.5°	99.6	94.0	90.2	92.1	94.0
85°	53.6	51.7	54.5	55.5	57.3
87.5°	21.6	21.6	23.5	25.4	25.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)