

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: P184342

Luminaire Tested: **ENW/ENC-12-2-LD1-17-40-CP187-UNV-EDC1**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P184342  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: ENW/ENC-12-2-LD1-17-40-CP187-UNV-EDC1  
Description: FAIL-SAFE 1X2 ENCOUNTER W/ 0.187" THICK CLEAR POLY LENS  
Light Source: 4000K LEDS  
Ballast/Driver: -

**Summary**

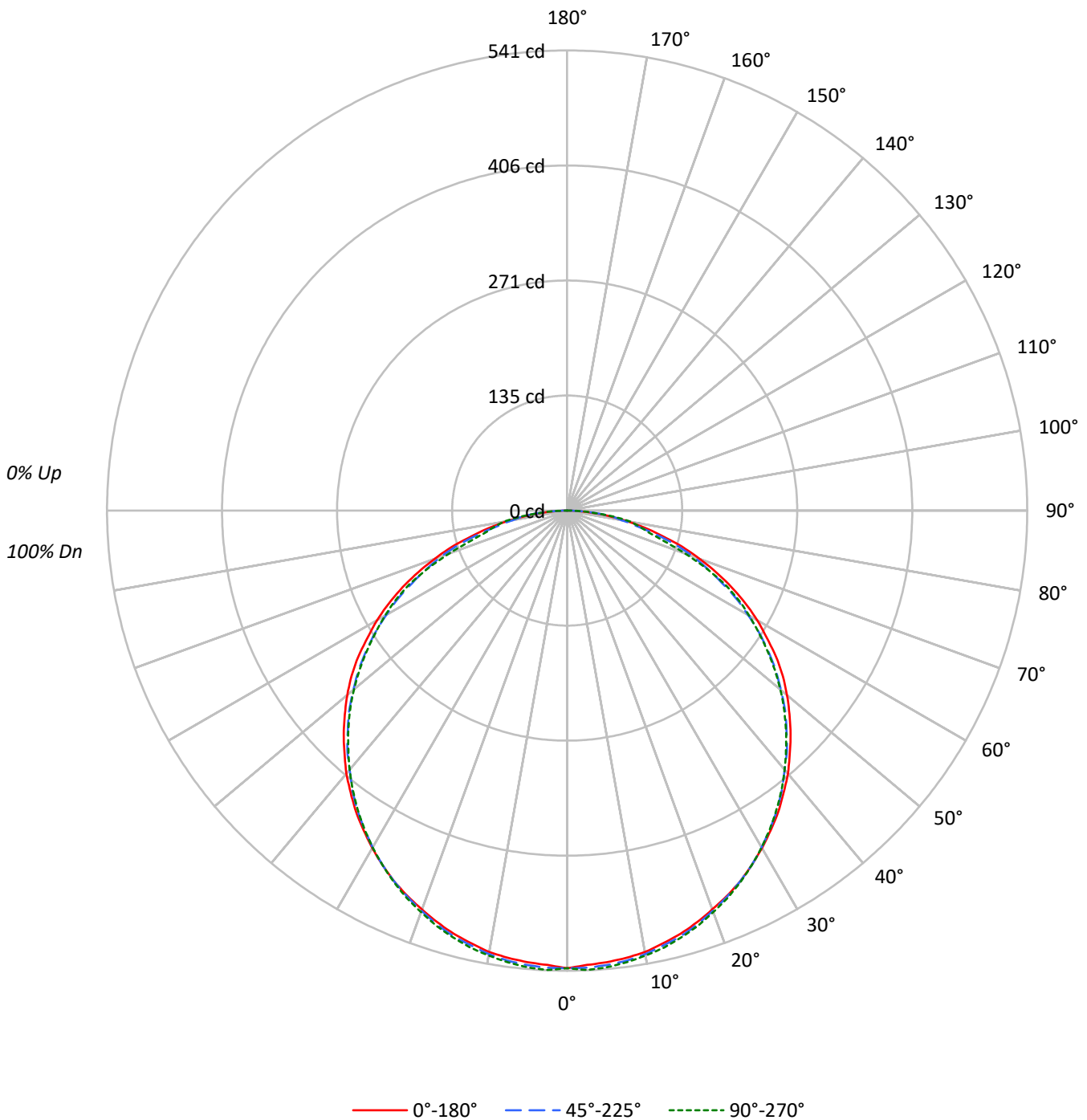
Lumens per Lamp: N/A  
Luminaire Lumens: 1584.3 lumens  
Efficiency: N/A  
Efficacy: 84.3 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.26 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 2' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 18.8  
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	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					100			
1	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69					69			
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	45	39	50	44	39	37					37			
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	32					32			
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29					29			
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	26	51	38	31	26	37	30	25	37	30	25	36	30	25	23					23			

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

	0°	45°	90°
0°	2895	2895	2895
5°	2867	2871	2886
10°	2855	2841	2853
15°	2832	2805	2818
20°	2807	2761	2776
25°	2792	2722	2735
30°	2768	2678	2687
35°	2747	2630	2635
40°	2722	2566	2578
45°	2693	2510	2517
50°	2667	2439	2448
55°	2627	2355	2359
60°	2560	2234	2269
65°	2453	2081	2139
70°	2292	1915	1815
75°	2042	1609	1493
80°	1702	1250	1497
85°	1167	949	957



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	51.0	3.2
10°-20°	146.0	9.2
20°-30°	221.7	14.0
30°-40°	269.1	17.0
40°-50°	282.5	17.8
50°-60°	260.1	16.4
60°-70°	202.1	12.8
70°-80°	115.5	7.3
80°-90°	36.3	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°	418.7	26.4
0°-40°	687.8	43.4
0°-60°	1230.4	77.7
0°-90°	1584.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1584.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	538	538	538	538	538	
5°	533	535	536	538	539	51
15°	515	516	518	518	519	145
25°	481	480	481	481	482	222
35°	433	432	430	429	429	271
45°	372	370	365	362	364	287
55°	300	297	289	286	287	267
65°	213	209	201	202	204	211
75°	116	114	108	98	99	124
85°	30	31	34	33	33	35
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	538.0	538.0	538.0	538.0	538.0
2.5°	534.7	536.3	538.0	539.7	540.6
5°	533.0	534.7	536.3	538.0	538.9
7.5°	530.4	531.2	533.8	535.5	535.5
10°	527.0	527.0	529.5	531.2	531.2
12.5°	521.0	521.9	523.6	525.3	526.2
15°	515.1	516.0	517.7	518.5	519.3
17.5°	507.5	508.3	510.0	510.8	511.7
20°	499.0	499.8	500.7	501.5	502.3
22.5°	490.5	490.5	491.3	492.2	493.0
25°	481.1	480.2	481.1	481.1	482.0
27.5°	470.0	470.0	470.0	469.2	470.0
30°	458.2	458.2	457.3	456.5	457.3
32.5°	445.4	445.4	443.7	442.8	443.7
35°	432.7	431.8	430.1	429.2	429.2
37.5°	418.2	416.5	414.8	413.1	414.0
40°	403.7	402.0	397.8	396.1	397.8
42.5°	387.6	385.9	382.5	380.0	380.8
45°	371.5	369.7	364.7	362.1	363.8
47.5°	354.5	352.7	347.7	345.1	346.0
50°	337.5	334.0	328.1	325.5	327.2
52.5°	319.6	316.2	309.4	306.0	307.7
55°	300.0	296.7	289.0	286.5	287.3
57.5°	278.0	276.2	267.7	265.2	266.9
60°	258.4	254.2	245.7	244.8	247.3
62.5°	236.3	231.2	224.4	223.5	227.0
65°	213.3	209.1	200.6	202.3	204.0
67.5°	189.5	185.3	178.5	178.5	176.8
70°	165.7	160.7	157.2	149.6	147.0
72.5°	142.0	137.7	133.5	120.7	119.0
75°	116.5	113.9	108.0	97.7	98.6
77.5°	93.5	92.7	83.3	83.3	87.5
80°	70.5	70.5	64.6	72.2	75.7
82.5°	49.3	47.6	52.7	55.2	56.1
85°	29.7	30.6	34.0	33.2	33.2
87.5°	12.7	13.6	14.5	14.5	14.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)