

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: P184374

Luminaire Tested: **ENW/ENC-24-2-LD1-34-40-CP187-UNV-EDC1**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P184374  
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-CP187-UNV-EDC1  
Description: FAIL-SAFE 2X2 ENCOUNTER W/ 0.187" THICK CLEAR POLY LENS  
Light Source: 4000K LEDS  
Ballast/Driver: -

**Summary**

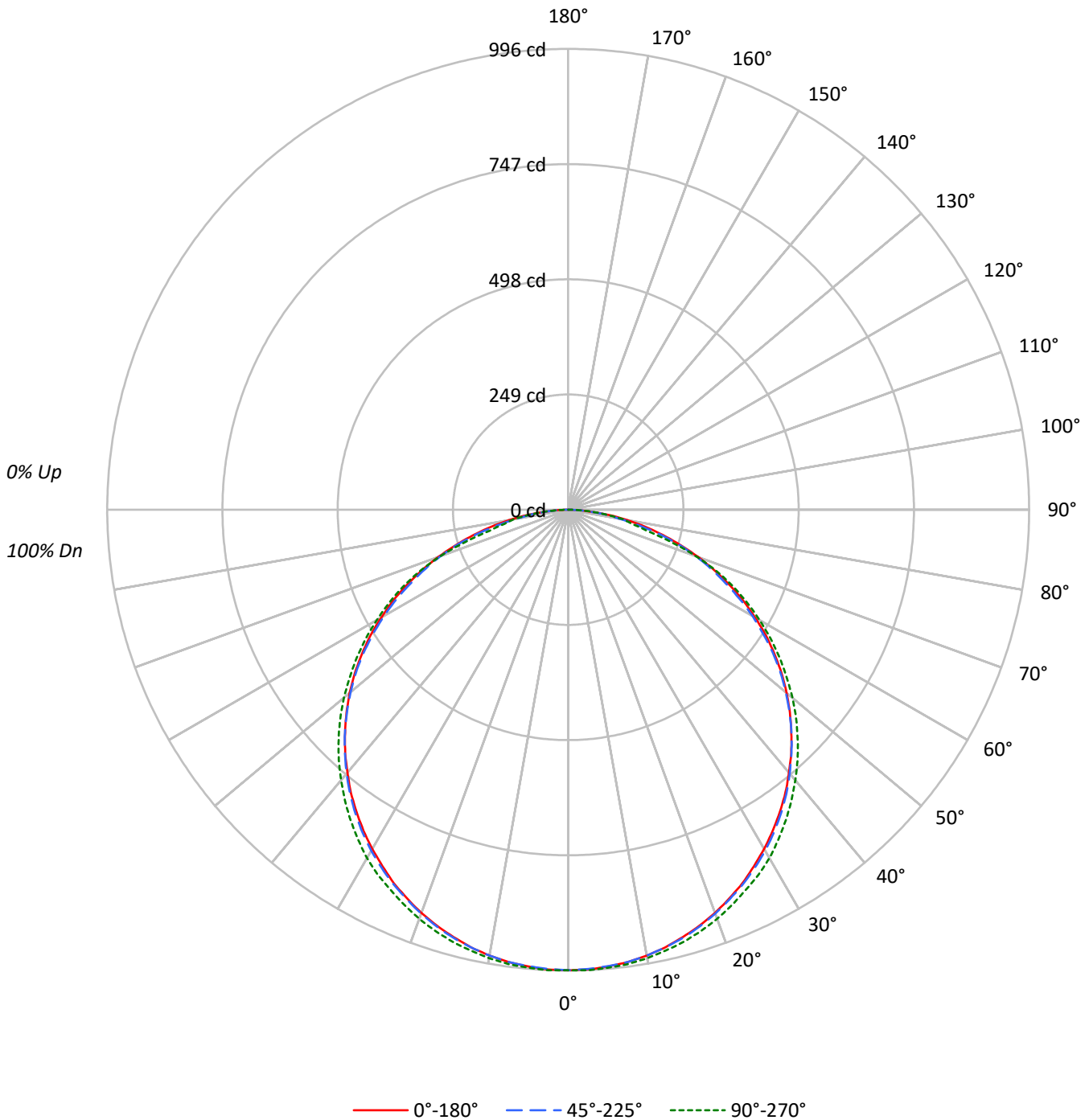
Lumens per Lamp: N/A  
Luminaire Lumens: 2946.3 lumens  
Efficiency: N/A  
Efficacy: 84.7 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.29 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.1')  
CIE Type: Direct

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

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

	0°	45°	90°
0°	2679	2679	2679
5°	2666	2659	2673
10°	2650	2641	2666
15°	2629	2619	2657
20°	2608	2594	2647
25°	2585	2568	2632
30°	2557	2540	2626
35°	2531	2509	2601
40°	2502	2469	2573
45°	2471	2426	2542
50°	2435	2370	2499
55°	2382	2300	2442
60°	2312	2205	2366
65°	2209	2072	2269
70°	2064	1932	2034
75°	1855	1685	1542
80°	1560	1231	1446
85°	953	842	1018



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	94.3	3.2
10°-20°	270.9	9.2
20°-30°	413.2	14.0
30°-40°	503.5	17.1
40°-50°	529.6	18.0
50°-60°	486.3	16.5
60°-70°	377.4	12.8
70°-80°	212.6	7.2
80°-90°	58.3	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°	778.5	26.4
0°-40°	1282.0	43.5
0°-60°	2297.9	78.0
0°-90°	2946.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2946.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	995	995	995	995	995	
5°	991	991	990	994	994	94
15°	956	957	958	963	966	270
25°	891	891	893	902	907	410
35°	797	798	802	811	820	499
45°	682	681	683	693	701	526
55°	544	541	540	547	558	486
65°	384	381	375	383	394	380
75°	212	210	205	183	176	224
85°	48	47	49	50	52	61
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	995.4	995.4	995.4	995.4	995.4
2.5°	994.5	993.7	993.7	995.4	996.3
5°	991.1	991.1	990.3	993.7	993.7
7.5°	986.0	985.2	986.0	989.5	990.3
10°	978.4	977.5	978.4	981.8	984.3
12.5°	969.0	969.0	969.0	973.3	975.8
15°	956.3	957.1	958.0	963.1	966.5
17.5°	942.7	942.7	944.4	950.3	954.6
20°	927.4	927.4	929.1	935.9	941.0
22.5°	909.5	910.4	911.3	919.8	924.8
25°	890.8	890.8	893.4	901.9	907.0
27.5°	868.8	870.5	873.0	882.3	890.0
30°	846.6	847.5	850.9	860.3	869.6
32.5°	822.8	823.7	827.1	836.5	845.0
35°	797.3	798.2	801.6	811.0	819.5
37.5°	771.0	771.0	774.4	784.6	792.3
40°	742.1	742.1	744.6	754.8	763.3
42.5°	713.2	711.5	714.0	724.3	733.6
45°	681.8	680.8	682.6	692.8	701.3
47.5°	649.5	648.6	648.6	658.0	668.1
50°	616.3	613.7	613.7	622.2	632.5
52.5°	581.5	578.0	578.0	585.7	595.0
55°	544.0	540.6	539.8	546.6	557.6
57.5°	506.6	502.3	499.8	506.6	518.5
60°	466.7	463.3	459.8	465.8	477.7
62.5°	426.7	422.5	417.3	425.0	436.1
65°	384.2	380.8	374.8	383.3	394.5
67.5°	341.7	338.3	334.0	340.0	346.8
70°	298.3	295.8	293.3	292.5	294.1
72.5°	254.2	252.5	250.8	239.7	234.6
75°	211.7	210.0	204.8	182.8	176.0
77.5°	170.0	169.2	155.5	139.4	141.1
80°	129.2	126.7	111.3	115.6	119.8
82.5°	90.1	85.0	81.6	83.3	85.0
85°	48.5	46.8	49.3	50.2	51.8
87.5°	19.5	19.5	21.3	23.0	23.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)