

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: P184364

Luminaire Tested: **ENW/ENC-12-4-LD1-43-40-CA125-UNV-EDC1**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P184364  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P32844)  
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-LD1-43-40-CA125-UNV-EDC1  
Description: FAIL-SAFE 1X4 ENCOUNTER W/ 0.125" THICK CLEAR ACRYLIC LENS  
Light Source: 4000K LEDS  
Ballast/Driver: -

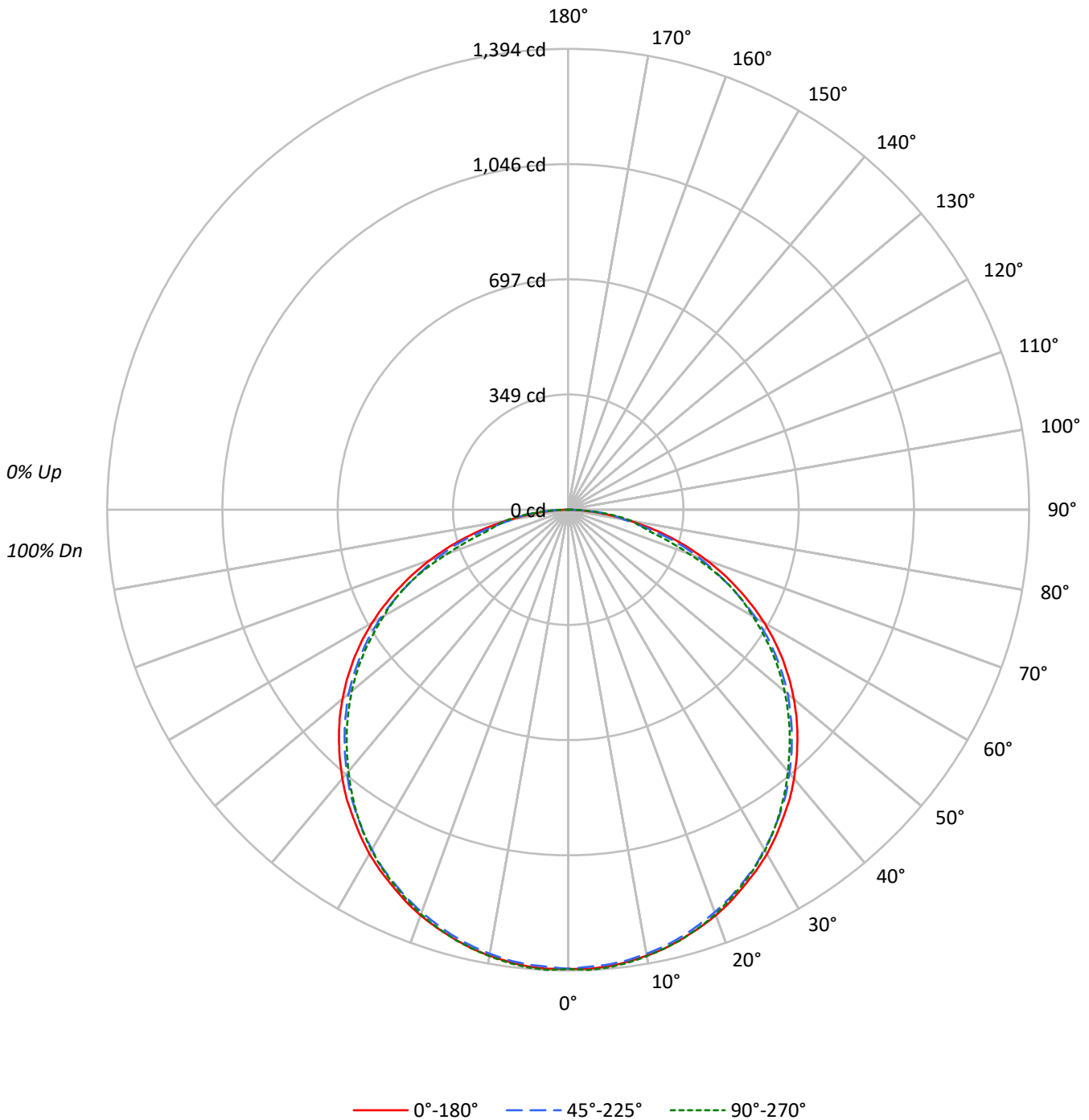
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4157.4 lumens  
Efficiency: N/A  
Efficacy: 88.5 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.27 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.1')  
CIE Type: Direct  
  
Input Watts (W): 47  
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	93	97	94	90	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69					69			
3	89	79	70	64	87	77	69	63	74	67	62	71	65	61	69	64	60	57					57			
4	82	69	60	54	79	68	60	53	66	58	52	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	39	51	44	39	50	43	39	37					37			
7	64	50	41	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32					32			
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29					29			
9	56	42	34	28	54	41	34	28	40	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23					23			

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

	0°	45°	90°
0°	3738	3738	3738
5°	3738	3702	3722
10°	3727	3670	3683
15°	3714	3634	3644
20°	3706	3594	3598
25°	3688	3553	3546
30°	3682	3509	3495
35°	3663	3460	3427
40°	3654	3402	3349
45°	3640	3344	3276
50°	3621	3283	3196
55°	3590	3187	3093
60°	3533	3054	2958
65°	3425	2855	2802
70°	3268	2641	2387
75°	3008	2294	1940
80°	2495	1770	1912
85°	1787	1404	1304



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	131.7	3.2
10°-20°	378.3	9.1
20°-30°	576.6	13.9
30°-40°	702.3	16.9
40°-50°	740.9	17.8
50°-60°	686.7	16.5
60°-70°	536.5	12.9
70°-80°	308.0	7.4
80°-90°	96.5	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°	1086.6	26.1
0°-40°	1788.9	43.0
0°-60°	3216.4	77.4
0°-90°	4157.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4157.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1389	1389	1389	1389	1389	
5°	1387	1386	1381	1387	1390	132
15°	1342	1342	1336	1339	1343	379
25°	1256	1254	1246	1249	1250	580
35°	1134	1130	1118	1116	1116	711
45°	980	974	956	949	947	756
55°	793	783	765	755	754	708
65°	567	557	533	535	534	561
75°	316	303	293	262	256	333
85°	74	79	91	90	90	89
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1388.9	1388.9	1388.9	1388.9	<i>1388.9</i>
2.5°	<i>1389.9</i>	<i>1388.9</i>	<i>1384.1</i>	<i>1390.7</i>	<i>1393.6</i>
5°	1386.9	1386.0	1381.2	1386.9	<i>1389.9</i>
7.5°	1379.3	1380.3	1374.6	1379.3	<i>1382.2</i>
10°	1369.8	1368.8	1364.0	1369.8	<i>1371.6</i>
12.5°	1358.3	1356.5	1351.7	1355.5	<i>1358.3</i>
15°	1342.2	1342.2	1335.5	1339.4	<i>1343.2</i>
17.5°	1325.1	1323.1	1316.4	1322.2	<i>1324.0</i>
20°	1306.0	1303.1	1295.5	1299.3	<i>1302.2</i>
22.5°	1283.1	1279.4	1272.6	1275.4	<i>1276.4</i>
25°	1256.5	1253.5	1245.9	1248.8	<i>1249.8</i>
27.5°	1230.7	1225.9	1219.4	1219.4	<i>1221.2</i>
30°	1202.1	1195.5	1186.9	1186.9	<i>1189.8</i>
32.5°	1169.7	1163.1	1154.5	1152.6	<i>1154.5</i>
35°	1134.5	1129.7	1118.4	1115.5	<i>1116.4</i>
37.5°	1101.2	1093.6	1082.1	1075.5	<i>1076.4</i>
40°	1062.1	1055.5	1040.3	1033.5	<i>1033.5</i>
42.5°	1022.1	1015.5	999.3	991.6	<i>990.6</i>
45°	980.3	973.5	956.4	948.8	<i>946.8</i>
47.5°	937.4	928.7	911.6	903.0	<i>901.1</i>
50°	890.6	882.1	866.8	855.4	<i>854.5</i>
52.5°	843.1	834.4	816.4	805.9	<i>804.9</i>
55°	792.6	783.0	765.0	755.4	<i>753.5</i>
57.5°	740.1	730.6	711.6	702.0	<i>698.3</i>
60°	684.9	674.4	654.4	644.9	<i>644.9</i>
62.5°	626.8	616.3	594.4	589.6	<i>594.4</i>
65°	566.8	557.3	533.4	535.3	<i>534.4</i>
67.5°	506.8	496.3	473.4	476.2	<i>465.8</i>
70°	443.9	432.5	417.2	402.9	<i>386.8</i>
72.5°	381.0	367.7	360.1	326.8	<i>319.2</i>
75°	316.3	302.9	293.4	261.9	<i>256.2</i>
77.5°	252.4	244.8	223.8	214.3	<i>222.0</i>
80°	183.8	191.4	171.5	185.8	<i>193.4</i>
82.5°	128.6	128.6	139.1	147.7	<i>147.7</i>
85°	74.4	79.0	91.4	89.6	<i>90.5</i>
87.5°	32.4	40.0	38.1	40.0	<i>39.1</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)