

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: P184365

Luminaire Tested: **ENW/ENC-12-4-LD1-43-40-CP125-UNV-EDC1**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P184365  
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-CP125-UNV-EDC1  
Description: FAIL-SAFE 1X4 ENCOUNTER W/ 0.125" THICK CLEAR POLY LENS  
Light Source: 4000K LEDS  
Ballast/Driver: -

**Summary**

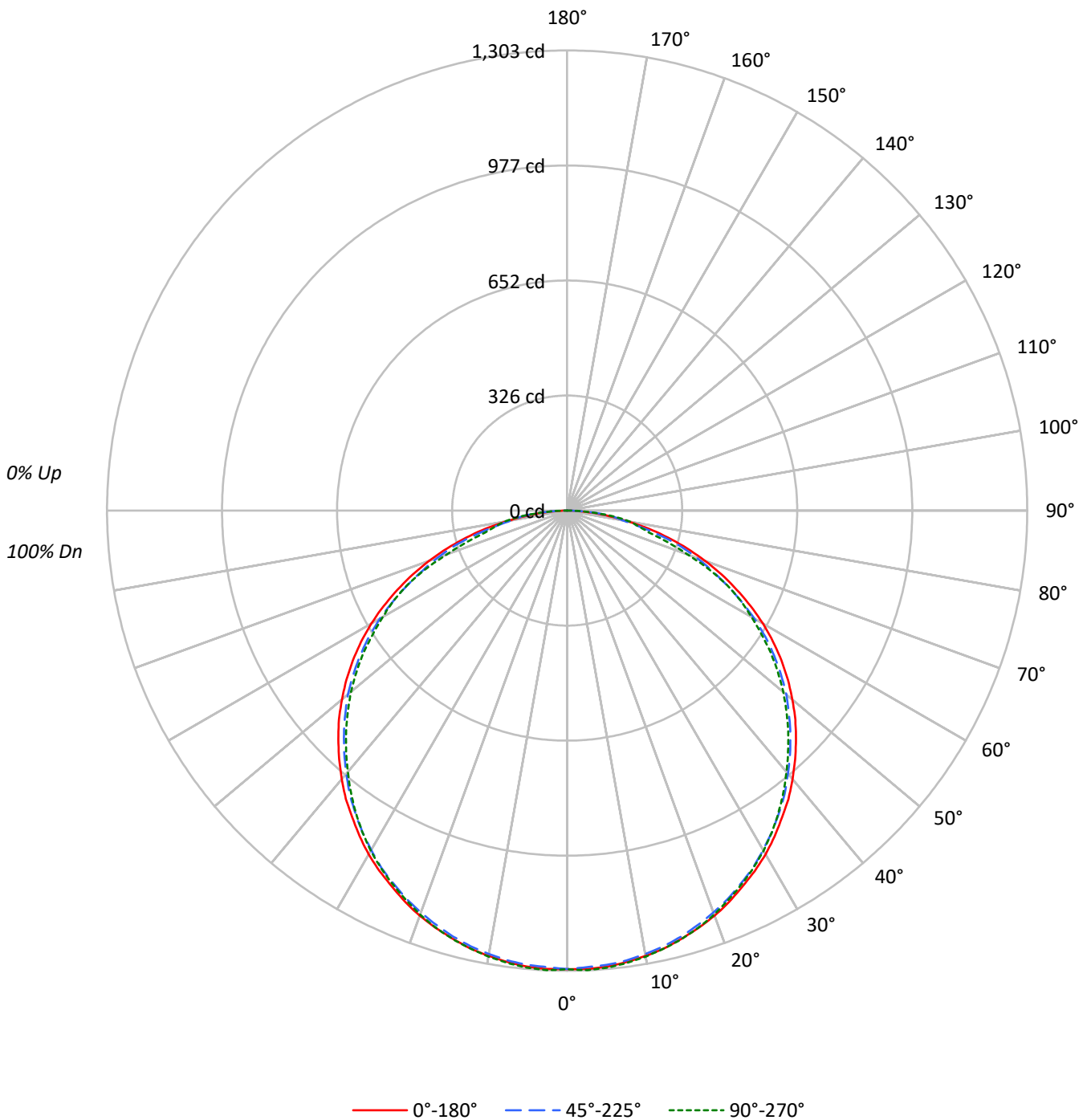
Lumens per Lamp: N/A  
Luminaire Lumens: 3886.3 lumens  
Efficiency: N/A  
Efficacy: 82.7 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.27 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.1')  
CIE Type: Direct

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°	3494	3494	3494
5°	3495	3461	3479
10°	3484	3431	3443
15°	3472	3398	3407
20°	3464	3360	3364
25°	3447	3321	3314
30°	3442	3280	3267
35°	3424	3234	3204
40°	3416	3180	3131
45°	3402	3126	3062
50°	3385	3069	2988
55°	3356	2979	2892
60°	3303	2855	2765
65°	3202	2669	2619
70°	3055	2469	2232
75°	2812	2145	1813
80°	2332	1655	1788
85°	1669	1313	1219



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	123.1	3.2
10°-20°	353.6	9.1
20°-30°	539.0	13.9
30°-40°	656.5	16.9
40°-50°	692.6	17.8
50°-60°	641.9	16.5
60°-70°	501.5	12.9
70°-80°	287.9	7.4
80°-90°	90.2	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°	1015.7	26.1
0°-40°	1672.2	43.0
0°-60°	3006.7	77.4
0°-90°	3886.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3886.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1298	1298	1298	1298	1298	
5°	1296	1296	1291	1296	1299	123
15°	1255	1255	1248	1252	1256	354
25°	1174	1172	1165	1167	1168	542
35°	1061	1056	1046	1043	1044	665
45°	916	910	894	887	885	707
55°	741	732	715	706	704	662
65°	530	521	499	500	500	524
75°	296	283	274	245	240	311
85°	70	74	86	84	85	83
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1298.3	1298.3	1298.3	1298.3	1298.3
2.5°	1299.2	1298.3	1293.9	1300.1	1302.7
5°	1296.5	1295.7	1291.2	1296.5	1299.2
7.5°	1289.4	1290.3	1285.0	1289.4	1292.1
10°	1280.5	1279.6	1275.1	1280.5	1282.2
12.5°	1269.8	1268.1	1263.6	1267.1	1269.8
15°	1254.7	1254.7	1248.5	1252.0	1255.6
17.5°	1238.7	1236.9	1230.6	1236.0	1237.7
20°	1220.8	1218.2	1211.1	1214.6	1217.3
22.5°	1199.4	1196.0	1189.6	1192.3	1193.2
25°	1174.5	1171.8	1164.7	1167.4	1168.3
27.5°	1150.5	1146.0	1139.9	1139.9	1141.6
30°	1123.8	1117.6	1109.5	1109.5	1112.2
32.5°	1093.5	1087.3	1079.2	1077.5	1079.2
35°	1060.6	1056.1	1045.5	1042.8	1043.6
37.5°	1029.4	1022.3	1011.5	1005.4	1006.2
40°	992.8	986.7	972.4	966.1	966.1
42.5°	955.4	949.3	934.1	927.0	926.1
45°	916.4	910.1	894.0	886.9	885.1
47.5°	876.3	868.1	852.1	844.2	842.3
50°	832.6	824.6	810.3	799.6	798.8
52.5°	788.1	780.0	763.2	753.3	752.4
55°	740.9	731.9	715.1	706.1	704.4
57.5°	691.8	683.0	665.2	656.3	652.8
60°	640.2	630.5	611.7	602.8	602.8
62.5°	585.9	576.1	555.6	551.1	555.6
65°	529.8	520.9	498.6	500.5	499.5
67.5°	473.7	463.9	442.5	445.2	435.4
70°	415.0	404.3	390.0	376.7	361.6
72.5°	356.2	343.7	336.6	305.5	298.3
75°	295.7	283.2	274.3	244.8	239.5
77.5°	236.0	228.8	209.2	200.4	207.5
80°	171.8	179.0	160.3	173.6	180.8
82.5°	120.2	120.2	130.0	138.1	138.1
85°	69.5	73.8	85.5	83.7	84.6
87.5°	30.3	37.4	35.6	37.4	36.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)