

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: P184376

Luminaire Tested: **ENW/ENC-24-2-LD1-39-40-CA125-UNV-EDC1**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P184376  
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-LD1-39-40-CA125-UNV-EDC1  
Description: FAIL-SAFE 2X2 ENCOUNTER W/ 0.125" THICK CLEAR ACRYLIC LENS  
Light Source: 4000K LEDS  
Ballast/Driver: -

**Summary**

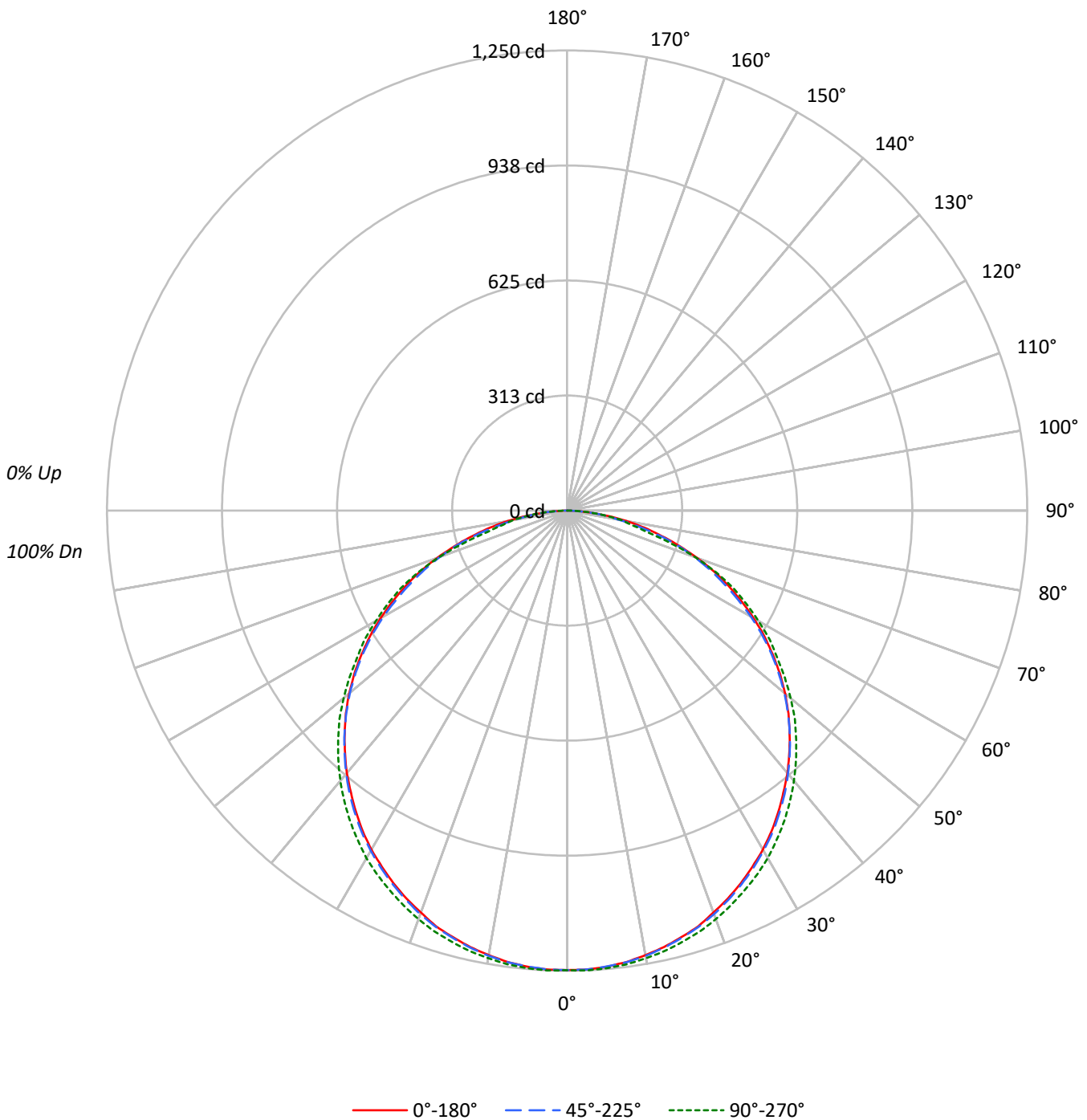
Lumens per Lamp: N/A  
Luminaire Lumens: 3696.1 lumens  
Efficiency: N/A  
Efficacy: 88.8 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.29 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 41.6  
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	38	31	26	37	30	26	37	30	25	36	30	25	24					24			

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

	0°	45°	90°
0°	3359	3359	3359
5°	3345	3337	3355
10°	3322	3315	3344
15°	3298	3285	3333
20°	3268	3257	3322
25°	3241	3221	3305
30°	3212	3186	3293
35°	3174	3144	3264
40°	3139	3097	3232
45°	3098	3041	3188
50°	3053	2973	3130
55°	2985	2885	3049
60°	2898	2766	2971
65°	2778	2599	2862
70°	2596	2418	2564
75°	2330	2103	1958
80°	1967	1547	1810
85°	1175	1084	1265



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	118.3	3.2
10°-20°	339.9	9.2
20°-30°	518.3	14.0
30°-40°	631.4	17.1
40°-50°	664.1	18.0
50°-60°	610.2	16.5
60°-70°	473.6	12.8
70°-80°	266.5	7.2
80°-90°	73.6	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°	976.6	26.4
0°-40°	1608.0	43.5
0°-60°	2882.4	78.0
0°-90°	3696.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3696.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1248	1248	1248	1248	1248	
5°	1244	1243	1243	1247	1248	118
15°	1200	1200	1202	1209	1212	339
25°	1117	1117	1120	1131	1139	515
35°	1000	1000	1005	1018	1028	626
45°	855	854	856	868	880	660
55°	682	681	677	685	696	609
65°	483	478	470	482	498	477
75°	266	264	256	228	224	282
85°	60	60	64	64	64	76
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1248.4	1248.4	1248.4	1248.4	1248.4
2.5°	1247.5	1246.6	1247.5	1249.3	1250.3
5°	1243.8	1242.9	1242.9	1246.6	1247.5
7.5°	1236.5	1235.5	1237.4	1240.1	1242.9
10°	1226.3	1226.3	1228.2	1231.9	1234.6
12.5°	1214.4	1214.4	1216.2	1221.7	1225.4
15°	1199.7	1199.7	1201.5	1208.9	1212.5
17.5°	1184.0	1182.2	1185.9	1192.3	1198.7
20°	1161.9	1162.9	1166.5	1173.9	1181.3
22.5°	1140.8	1140.8	1144.5	1153.7	1161.0
25°	1116.9	1116.9	1120.5	1130.7	1138.9
27.5°	1090.2	1091.1	1094.8	1105.8	1115.9
30°	1063.5	1064.4	1067.2	1080.1	1090.2
32.5°	1033.1	1033.1	1037.7	1049.7	1059.8
35°	1000.0	1000.0	1004.6	1017.5	1028.5
37.5°	965.1	966.0	970.6	982.5	994.5
40°	931.0	930.1	933.8	946.7	958.6
42.5°	893.3	892.4	895.1	908.9	920.0
45°	854.7	853.7	855.6	868.5	879.5
47.5°	815.1	812.3	813.3	826.1	839.0
50°	772.8	770.9	770.0	781.1	792.1
52.5°	728.6	726.8	724.0	735.1	745.2
55°	681.7	680.8	677.1	685.4	696.4
57.5°	634.8	632.0	627.4	634.8	652.3
60°	585.1	581.4	576.8	584.2	599.8
62.5°	534.5	529.0	522.5	532.7	549.2
65°	483.0	477.5	470.1	482.1	497.7
67.5°	431.5	424.1	418.6	426.9	437.9
70°	375.3	369.9	367.1	365.3	370.7
72.5°	320.1	317.4	314.7	298.1	296.3
75°	265.9	264.1	255.7	228.1	223.5
77.5°	214.3	211.6	194.1	172.9	177.5
80°	162.9	160.1	139.9	143.5	149.9
82.5°	112.3	107.7	103.9	104.9	105.8
85°	59.8	59.8	63.5	63.5	64.4
87.5°	24.9	24.9	27.6	28.5	29.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)