

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: P184330

Luminaire Tested: **ENW/ENC-24-2-LD1-39-40-CA080-UNV-EDC1**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P184330  
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-CA080-UNV-EDC1  
Description: FAIL-SAFE 2X2 ENCOUNTER W/ 0.080" THICK CLEAR ACRYLIC LENS  
Light Source: 4000K LEDS  
Ballast/Driver: -

**Summary**

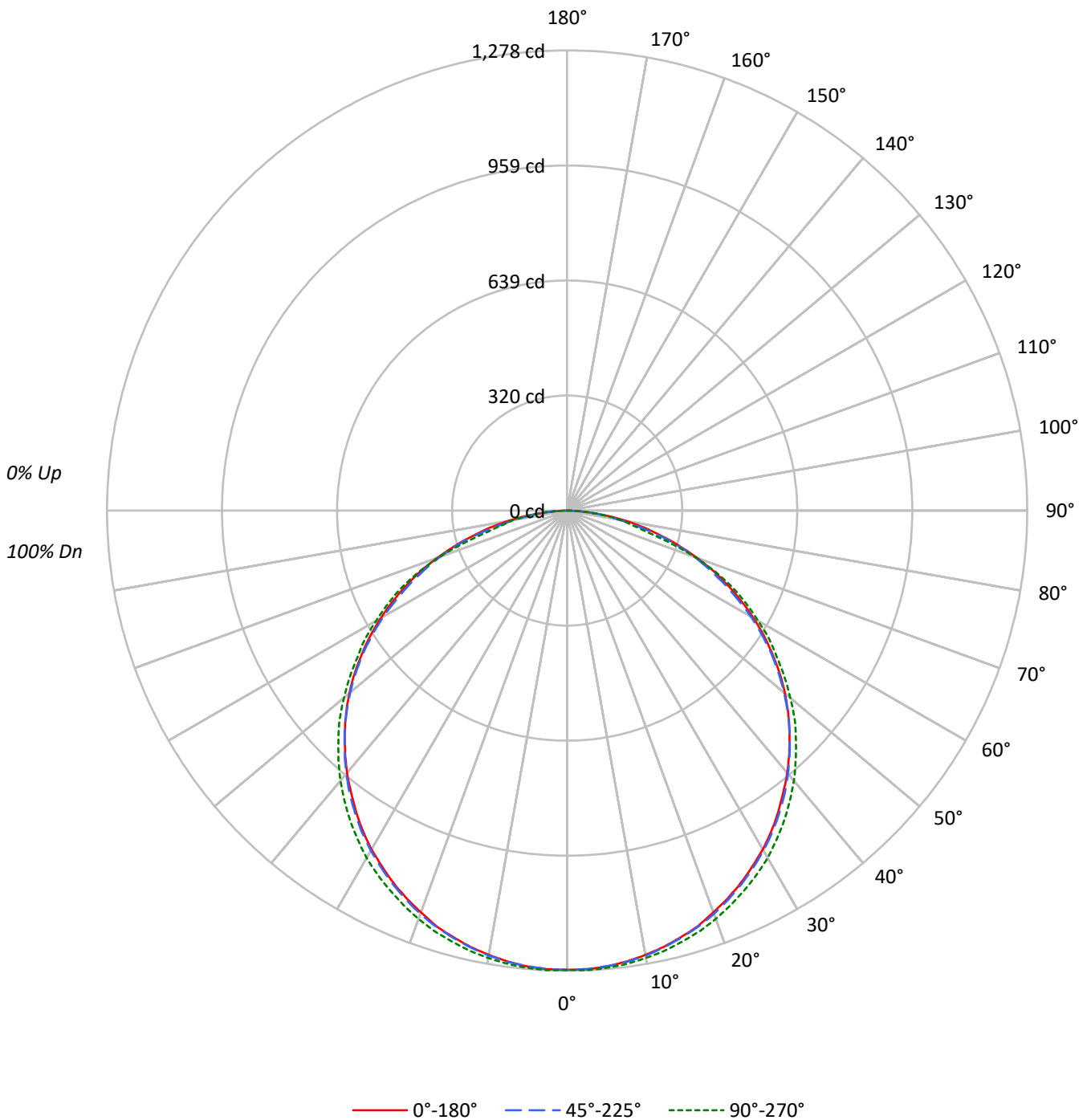
Lumens per Lamp: N/A  
Luminaire Lumens: 3776.5 lumens  
Efficiency: N/A  
Efficacy: 90.8 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.29 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.1')  
CIE Type: Direct

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	46	57	50	45	55	49	45	42
6	69	56	47	40	68	55	46	40	53	45	40	51	45	39	50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	26	37	30	25	36	30	25	24

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

	0°	45°	90°
0°	3433	3433	3433
5°	3418	3409	3428
10°	3394	3387	3417
15°	3370	3356	3406
20°	3339	3328	3395
25°	3311	3291	3376
30°	3282	3255	3364
35°	3243	3213	3336
40°	3207	3164	3302
45°	3165	3107	3257
50°	3120	3038	3198
55°	3050	2948	3116
60°	2961	2826	3036
65°	2838	2656	2924
70°	2653	2471	2620
75°	2381	2150	2001
80°	2009	1581	1850
85°	1200	1108	1293



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	120.9	3.2
10°-20°	347.3	9.2
20°-30°	529.6	14.0
30°-40°	645.2	17.1
40°-50°	678.6	18.0
50°-60°	623.5	16.5
60°-70°	483.9	12.8
70°-80°	272.3	7.2
80°-90°	75.2	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°	997.8	26.4
0°-40°	1643.0	43.5
0°-60°	2945.1	78.0
0°-90°	3776.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3776.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1276	1276	1276	1276	1276	
5°	1271	1270	1270	1274	1275	121
15°	1226	1226	1228	1235	1239	346
25°	1141	1141	1145	1155	1164	526
35°	1022	1022	1026	1040	1051	639
45°	873	872	874	887	899	674
55°	696	696	692	700	712	623
65°	494	488	480	493	508	488
75°	272	270	261	233	228	288
85°	61	61	65	65	66	77
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1275.6	1275.6	1275.6	1275.6	1275.6
2.5°	1274.6	1273.7	1274.6	1276.5	1277.5
5°	1270.9	1269.9	1269.9	1273.7	1274.6
7.5°	1263.4	1262.4	1264.3	1267.1	1269.9
10°	1253.0	1253.0	1254.9	1258.7	1261.5
12.5°	1240.8	1240.8	1242.7	1248.3	1252.1
15°	1225.8	1225.8	1227.6	1235.2	1238.9
17.5°	1209.8	1207.9	1211.7	1218.2	1224.8
20°	1187.2	1188.2	1191.9	1199.4	1207.0
22.5°	1165.6	1165.6	1169.4	1178.8	1186.3
25°	1141.2	1141.2	1144.9	1155.3	1163.7
27.5°	1113.9	1114.8	1118.6	1129.9	1140.2
30°	1086.6	1087.6	1090.4	1103.6	1113.9
32.5°	1055.6	1055.6	1060.3	1072.5	1082.9
35°	1021.8	1021.8	1026.5	1039.6	1050.9
37.5°	986.1	987.0	991.7	1003.9	1016.1
40°	951.3	950.3	954.1	967.3	979.5
42.5°	912.7	911.8	914.6	928.7	940.0
45°	873.3	872.3	874.2	887.4	898.6
47.5°	832.8	830.0	831.0	844.1	857.3
50°	789.6	787.7	786.8	798.1	809.3
52.5°	744.5	742.6	739.8	751.1	761.4
55°	696.5	695.6	691.8	700.3	711.6
57.5°	648.6	645.8	641.1	648.6	666.5
60°	597.8	594.1	589.4	596.9	612.9
62.5°	546.1	540.5	533.9	544.3	561.2
65°	493.5	487.9	480.3	492.6	508.5
67.5°	440.9	433.3	427.7	436.2	447.4
70°	383.5	377.9	375.1	373.2	378.8
72.5°	327.1	324.3	321.5	304.6	302.7
75°	271.7	269.8	261.3	233.1	228.4
77.5°	219.0	216.2	198.3	176.7	181.4
80°	166.4	163.6	142.9	146.6	153.2
82.5°	114.7	110.0	106.2	107.2	108.1
85°	61.1	61.1	64.9	64.9	65.8
87.5°	25.4	25.4	28.2	29.1	30.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)