

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: P184323

Luminaire Tested: **ENW/ENC-12-2-LD1-35-40-CA080-UNV-EDC1**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P184323  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: ENW/ENC-12-2-LD1-35-40-CA080-UNV-EDC1  
Description: FAIL-SAFE 1X2 ENCOUNTER W/ 0.080" THICK ACRYLIC LENS  
Light Source: 4000K LEDS  
Ballast/Driver: -

**Summary**

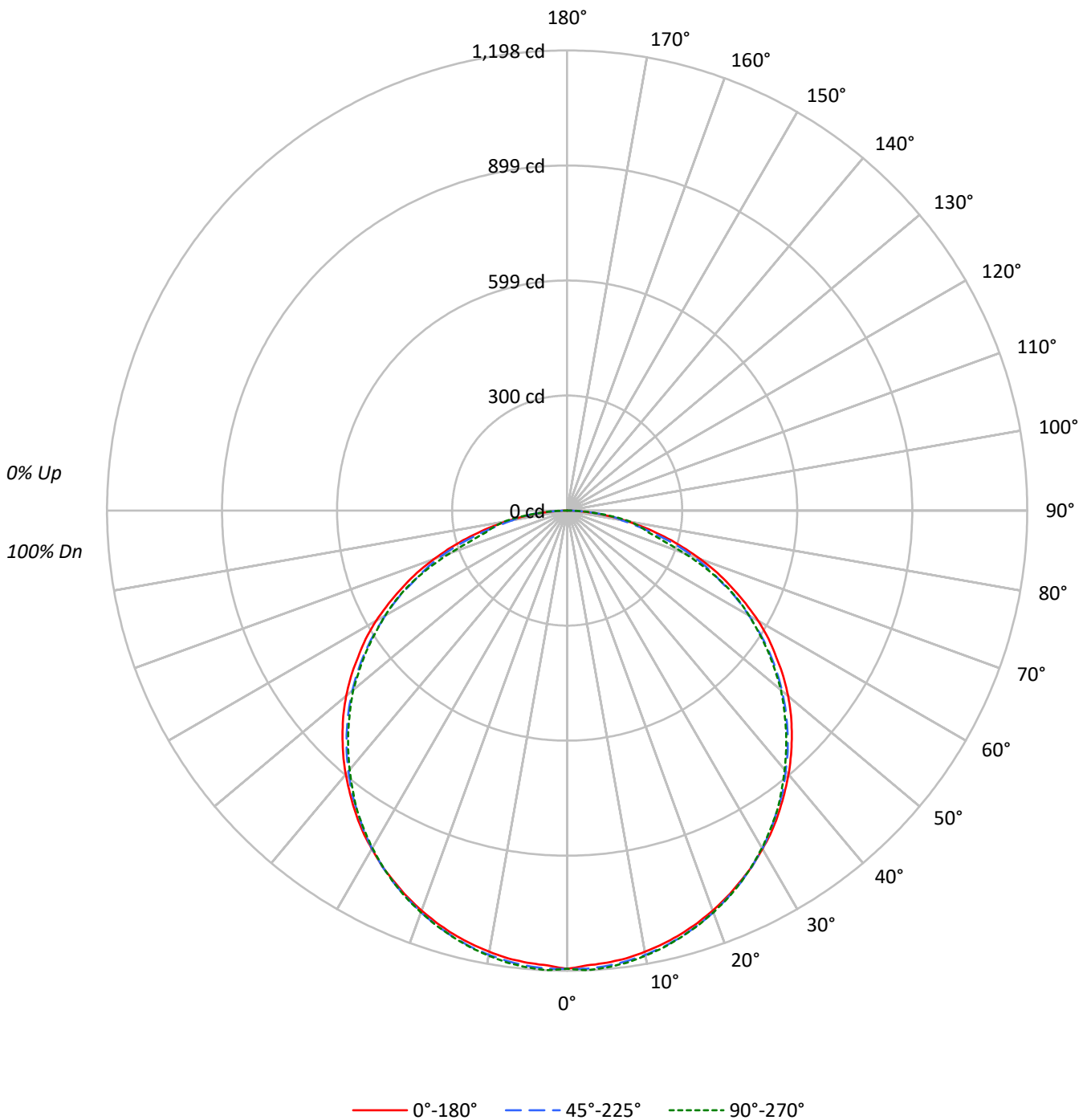
Lumens per Lamp: N/A  
Luminaire Lumens: 3518.3 lumens  
Efficiency: N/A  
Efficacy: 85.8 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.26 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 1' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 41  
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	90	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	45	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	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	25	37	30	25	36	30	25	23

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

	0°	45°	90°
0°	6420	6420	6420
5°	6328	6370	6421
10°	6264	6299	6376
15°	6198	6223	6321
20°	6125	6138	6261
25°	6048	6048	6202
30°	5976	5950	6127
35°	5899	5830	6051
40°	5813	5713	5939
45°	5724	5582	5840
50°	5619	5429	5742
55°	5457	5232	5590
60°	5269	4966	5420
65°	4958	4623	5168
70°	4549	4272	4487
75°	3957	3557	3838
80°	3105	2802	4064
85°	1870	2074	2920



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	113.0	3.2
10°-20°	323.7	9.2
20°-30°	492.1	14.0
30°-40°	597.5	17.0
40°-50°	628.0	17.9
50°-60°	578.0	16.4
60°-70°	448.6	12.8
70°-80°	256.7	7.3
80°-90°	80.5	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°	928.9	26.4
0°-40°	1526.3	43.4
0°-60°	2732.4	77.7
0°-90°	3518.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3518.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1193	1193	1193	1193	1193	
5°	1182	1184	1190	1194	1194	112
15°	1142	1144	1149	1150	1150	322
25°	1066	1066	1069	1068	1069	492
35°	961	957	953	951	953	601
45°	827	822	811	806	806	638
55°	665	657	642	637	638	595
65°	473	464	446	449	449	468
75°	261	253	239	220	219	276
85°	65	66	74	76	74	76
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1192.9	1192.9	1192.9	1192.9	1192.9
2.5°	1185.3	1188.2	1193.8	1197.6	1197.6
5°	1181.6	1184.4	1190.0	1193.8	1193.8
7.5°	1175.9	1178.8	1183.5	1187.2	1187.2
10°	1166.5	1169.4	1174.1	1176.9	1176.9
12.5°	1155.3	1158.1	1162.8	1164.7	1164.7
15°	1142.1	1144.0	1148.7	1149.6	1149.6
17.5°	1126.1	1127.1	1131.8	1131.8	1132.7
20°	1108.3	1109.2	1113.0	1113.0	1113.0
22.5°	1088.5	1088.5	1091.3	1091.3	1092.3
25°	1066.0	1066.0	1068.8	1067.8	1068.8
27.5°	1043.4	1042.5	1043.4	1041.5	1042.5
30°	1017.1	1017.1	1016.1	1014.3	1014.3
32.5°	990.8	987.9	986.1	984.2	984.2
35°	960.7	956.9	953.2	951.3	953.2
37.5°	928.7	925.9	922.1	916.5	917.4
40°	896.8	893.9	885.5	880.8	880.8
42.5°	862.9	858.2	849.8	845.1	844.1
45°	827.2	821.6	811.2	806.5	805.6
47.5°	790.5	784.9	771.7	767.0	766.1
50°	751.1	744.5	730.4	725.7	726.6
52.5°	709.7	702.2	687.1	683.4	681.5
55°	664.6	657.1	642.0	637.3	638.3
57.5°	622.3	612.9	595.0	589.4	591.3
60°	574.3	563.1	546.1	543.3	547.1
62.5°	523.6	514.2	499.1	496.3	502.0
65°	472.8	464.4	445.6	449.3	449.3
67.5°	423.0	411.7	399.5	392.9	388.2
70°	368.5	358.1	350.6	331.8	324.3
72.5°	314.9	305.5	297.0	268.8	261.3
75°	261.3	252.9	238.8	220.0	219.0
77.5°	207.7	204.0	186.1	186.1	194.6
80°	157.0	156.0	144.8	160.7	168.3
82.5°	108.1	105.3	116.6	125.0	123.1
85°	64.9	65.8	74.3	76.1	74.3
87.5°	28.2	29.1	31.0	33.8	31.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)