

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: P184348

Luminaire Tested: **ENW/ENC-12-2-LD1-35-40-CA125-UNV-EDC1**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P184348  
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-CA125-UNV-EDC1  
Description: FAIL-SAFE 1X2 ENCOUNTER W/ 0.125" THICK ACRYLIC LENS  
Light Source: 4000K LEDS  
Ballast/Driver: -

**Summary**

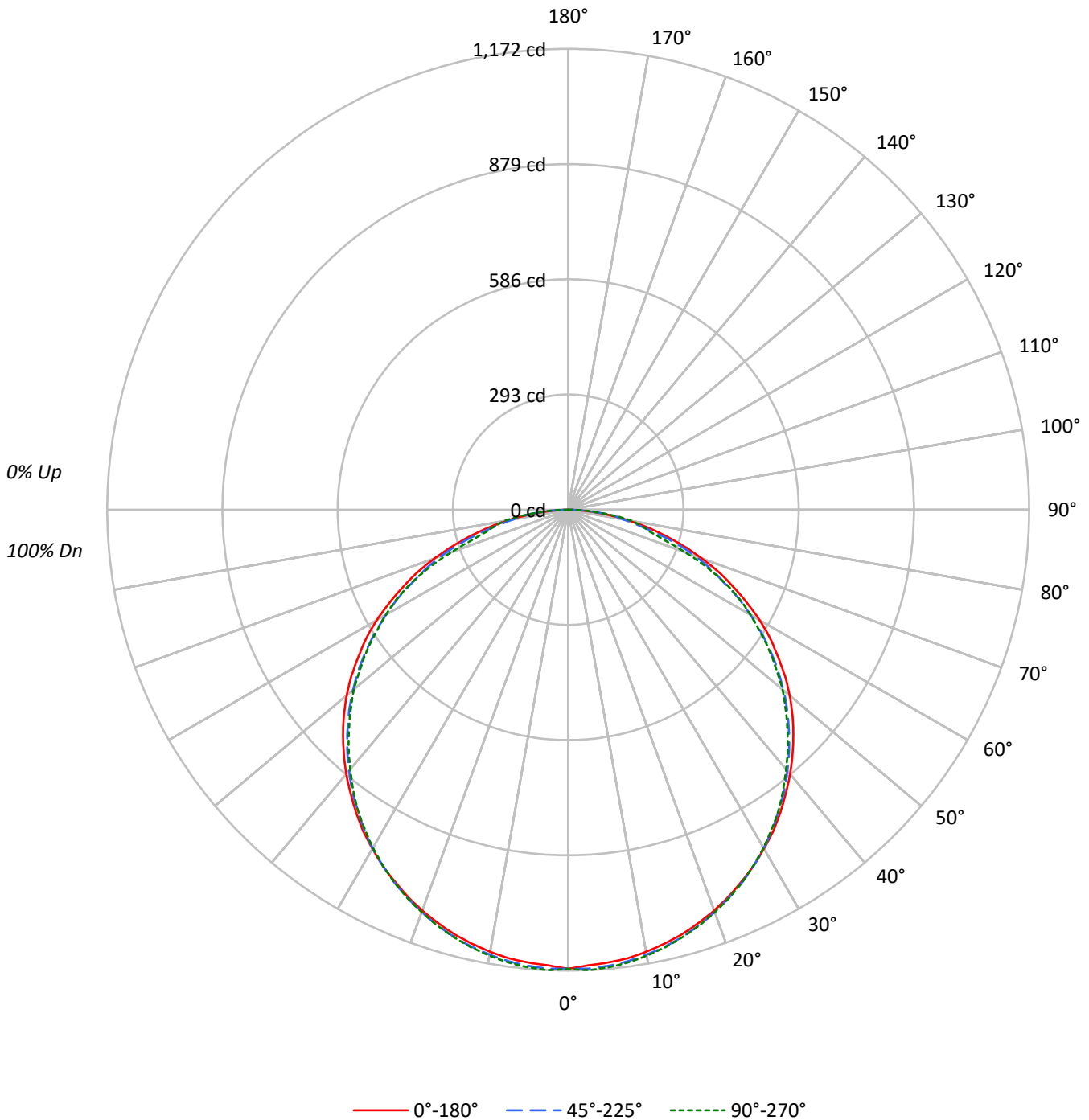
Lumens per Lamp: N/A  
Luminaire Lumens: 3443.3 lumens  
Efficiency: N/A  
Efficacy: 84.0 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.26 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 2' x H: 0.1')  
CIE Type: Direct

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°	6283	6283	6283
5°	6220	6234	6258
10°	6185	6165	6186
15°	6146	6091	6105
20°	6101	6007	6020
25°	6054	5919	5935
30°	6012	5824	5832
35°	5968	5706	5728
40°	5918	5591	5587
45°	5869	5463	5455
50°	5809	5313	5320
55°	5696	5120	5129
60°	5568	4860	4912
65°	5322	4525	4611
70°	4990	4181	3918
75°	4481	3481	3245
80°	3711	2742	3257
85°	2495	2029	2095



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.6	3.2
10°-20°	316.8	9.2
20°-30°	481.7	14.0
30°-40°	584.8	17.0
40°-50°	614.7	17.9
50°-60°	565.7	16.4
60°-70°	439.1	12.8
70°-80°	251.3	7.3
80°-90°	78.8	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°	909.1	26.4
0°-40°	1493.8	43.4
0°-60°	2674.2	77.7
0°-90°	3443.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3443.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1168	1168	1168	1168	1168	
5°	1156	1159	1165	1168	1168	110
15°	1118	1120	1124	1125	1125	316
25°	1043	1043	1046	1045	1046	481
35°	940	936	933	931	933	588
45°	810	804	794	789	788	625
55°	650	643	628	624	625	582
65°	463	454	436	440	440	458
75°	256	248	234	215	214	270
85°	64	64	73	74	73	74
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1167.5	1167.5	1167.5	1167.5	1167.5
2.5°	1160.1	1162.9	1168.4	1172.1	1172.1
5°	1156.4	1159.2	1164.7	1168.4	1168.4
7.5°	1150.9	1153.7	1158.3	1161.9	1161.9
10°	1141.7	1144.5	1149.1	1151.8	1151.8
12.5°	1130.7	1133.4	1138.0	1139.9	1139.9
15°	1117.8	1119.6	1124.2	1125.1	1125.1
17.5°	1102.1	1103.1	1107.7	1107.7	1108.6
20°	1084.7	1085.6	1089.3	1089.3	1089.3
22.5°	1065.3	1065.3	1068.1	1068.1	1069.0
25°	1043.3	1043.3	1046.0	1045.1	1046.0
27.5°	1021.2	1020.3	1021.2	1019.3	1020.3
30°	995.4	995.4	994.5	992.7	992.7
32.5°	969.7	966.9	965.1	963.2	963.2
35°	940.2	936.5	932.9	931.0	932.9
37.5°	908.9	906.2	902.5	897.0	897.9
40°	877.7	874.9	866.6	862.0	862.0
42.5°	844.5	839.9	831.7	827.1	826.1
45°	809.6	804.1	793.9	789.3	788.4
47.5°	773.7	768.2	755.3	750.7	749.8
50°	735.1	728.6	714.8	710.2	711.1
52.5°	694.6	687.2	672.5	668.8	667.0
55°	650.4	643.1	628.3	623.7	624.7
57.5°	609.0	599.8	582.3	576.8	578.7
60°	562.1	551.1	534.5	531.7	535.4
62.5°	512.4	503.2	488.5	485.7	491.3
65°	462.7	454.5	436.1	439.7	439.7
67.5°	414.0	402.9	391.0	384.5	379.9
70°	360.7	350.5	343.1	324.7	317.4
72.5°	308.2	299.0	290.7	263.1	255.7
75°	255.7	247.5	233.7	215.3	214.3
77.5°	203.3	199.7	182.1	182.1	190.5
80°	153.7	152.7	141.7	157.3	164.7
82.5°	105.8	103.1	114.1	122.3	120.5
85°	63.5	64.4	72.7	74.5	72.7
87.5°	27.6	28.5	30.3	33.1	30.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)