

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: P184320

Luminaire Tested: **ENW/ENC-12-2-LD1-13-40-CA080-UNV-EDC1**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P184320  
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-LD1-13-40-CA080-UNV-EDC1  
Description: FAIL-SAFE ENCOUNTER W/ 0.080" THICK CLEAR ACRYLIC LENS  
Light Source: 4000K LEDS  
Ballast/Driver: -

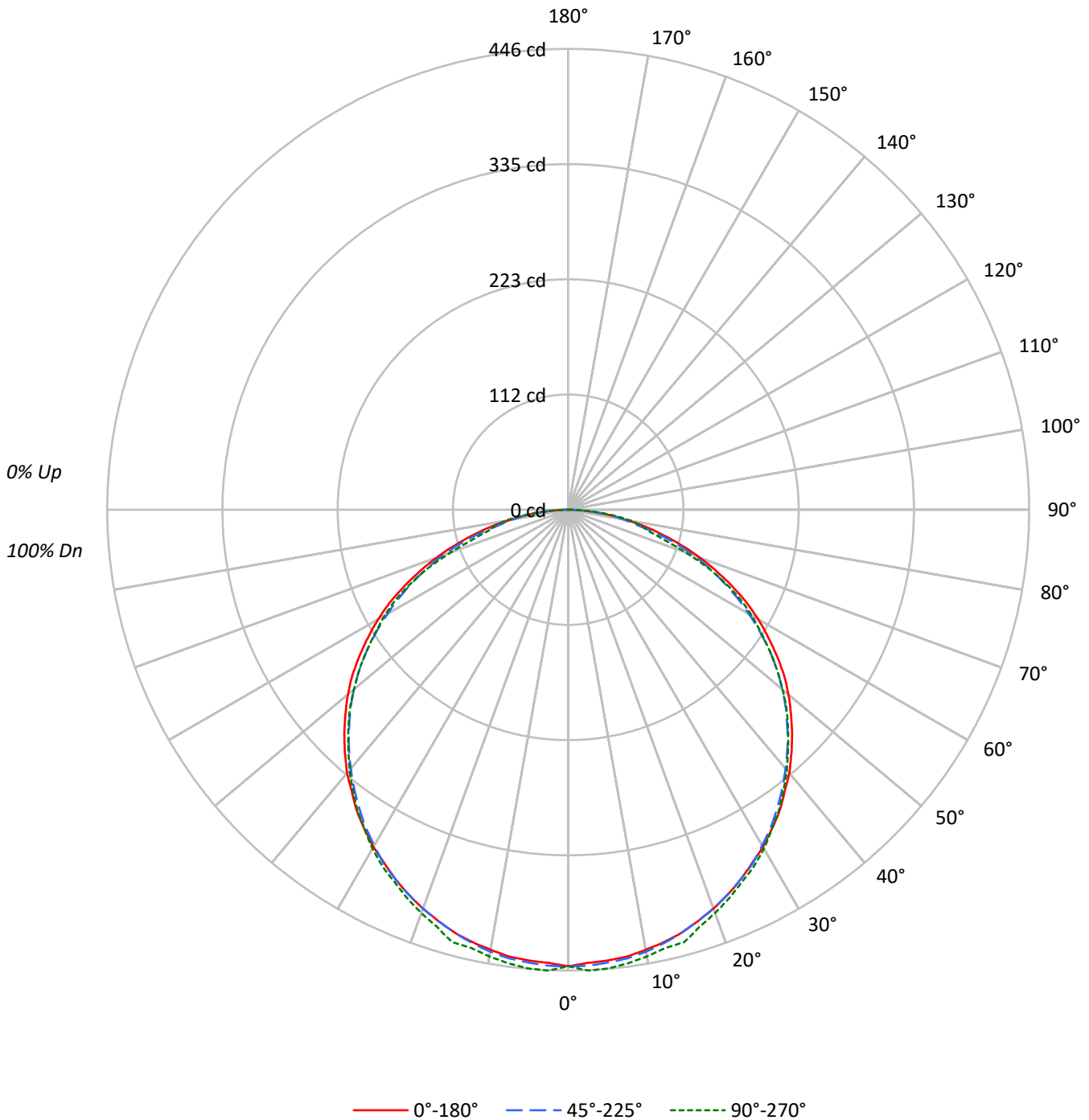
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1304.7 lumens  
Efficiency: N/A  
Efficacy: 83.1 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 1' x H: 0.1')  
CIE Type: Direct  
  
Input Watts (W): 15.7  
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	44	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	36	30	25	36	30	25	23

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

	0°	45°	90°
0°	2378	2378	2378
5°	2346	2355	2397
10°	2322	2330	2378
15°	2300	2297	2382
20°	2270	2265	2337
25°	2240	2234	2307
30°	2214	2197	2288
35°	2188	2156	2255
40°	2157	2110	2218
45°	2120	2064	2180
50°	2081	2012	2139
55°	2022	1938	2083
60°	1949	1838	2030
65°	1833	1716	1924
70°	1671	1569	1664
75°	1452	1317	1416
80°	1133	1037	1497
85°	677	762	1108



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	41.9	3.2
10°-20°	120.1	9.2
20°-30°	182.3	14.0
30°-40°	221.5	17.0
40°-50°	232.9	17.8
50°-60°	214.5	16.4
60°-70°	166.6	12.8
70°-80°	95.0	7.3
80°-90°	29.9	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°	344.3	26.4
0°-40°	565.8	43.4
0°-60°	1013.2	77.7
0°-90°	1304.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1304.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	442	442	442	442	442	
5°	438	439	440	442	446	42
15°	424	425	424	426	433	120
25°	395	396	395	396	398	182
35°	356	355	352	352	355	223
45°	306	305	300	299	301	236
55°	246	244	238	236	238	220
65°	175	172	165	167	167	173
75°	96	94	88	81	81	102
85°	24	25	27	28	28	28
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	441.8	441.8	441.8	441.8	441.8
2.5°	439.0	440.9	441.8	442.7	446.5
5°	438.0	439.0	439.9	441.8	445.6
7.5°	436.2	437.1	438.0	440.9	442.7
10°	432.4	433.3	434.3	435.2	439.0
12.5°	428.6	429.6	429.6	431.5	434.3
15°	423.9	424.9	423.9	425.8	433.3
17.5°	417.4	420.2	417.4	419.2	423.0
20°	410.8	411.7	410.8	411.7	415.5
22.5°	403.3	403.3	403.3	402.3	407.0
25°	394.8	395.7	394.8	395.7	397.6
27.5°	385.4	387.3	386.3	385.4	389.2
30°	376.9	376.9	375.1	375.1	378.8
32.5°	366.6	368.5	364.7	364.7	366.6
35°	356.3	355.3	352.5	352.5	355.3
37.5°	344.0	343.1	340.3	339.3	342.2
40°	332.8	330.9	327.1	327.1	329.0
42.5°	319.6	317.7	314.0	313.0	314.9
45°	306.4	304.6	299.9	298.9	300.8
47.5°	292.3	291.4	285.8	284.8	286.7
50°	278.2	276.4	270.7	268.8	270.7
52.5°	263.2	260.4	254.7	252.9	254.7
55°	246.3	244.4	237.8	235.9	237.8
57.5°	229.4	227.5	220.0	219.0	220.9
60°	212.4	209.6	202.1	202.1	204.9
62.5°	194.6	190.8	184.2	185.2	188.0
65°	174.8	172.0	165.4	167.3	167.3
67.5°	155.1	153.2	147.6	146.6	145.7
70°	135.4	133.5	128.8	124.1	120.3
72.5°	115.6	112.8	110.0	99.6	97.8
75°	95.9	94.0	88.4	80.8	80.8
77.5°	77.1	76.1	68.6	68.6	72.4
80°	57.3	58.3	53.6	59.2	62.0
82.5°	40.4	39.5	43.2	46.1	46.1
85°	23.5	25.4	27.3	28.2	28.2
87.5°	10.3	11.3	11.3	12.2	11.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)