

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: P184337

Luminaire Tested: **ENW/ENC-12-2-LD1-13-40-CP125-UNV-EDC1**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P184337  
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-CP125-UNV-EDC1  
Description: FAIL-SAFE ENCOUNTER W/ 0.125" THICK CLEAR POLY LENS  
Light Source: 4000K LEDS  
Ballast/Driver: -

**Summary**

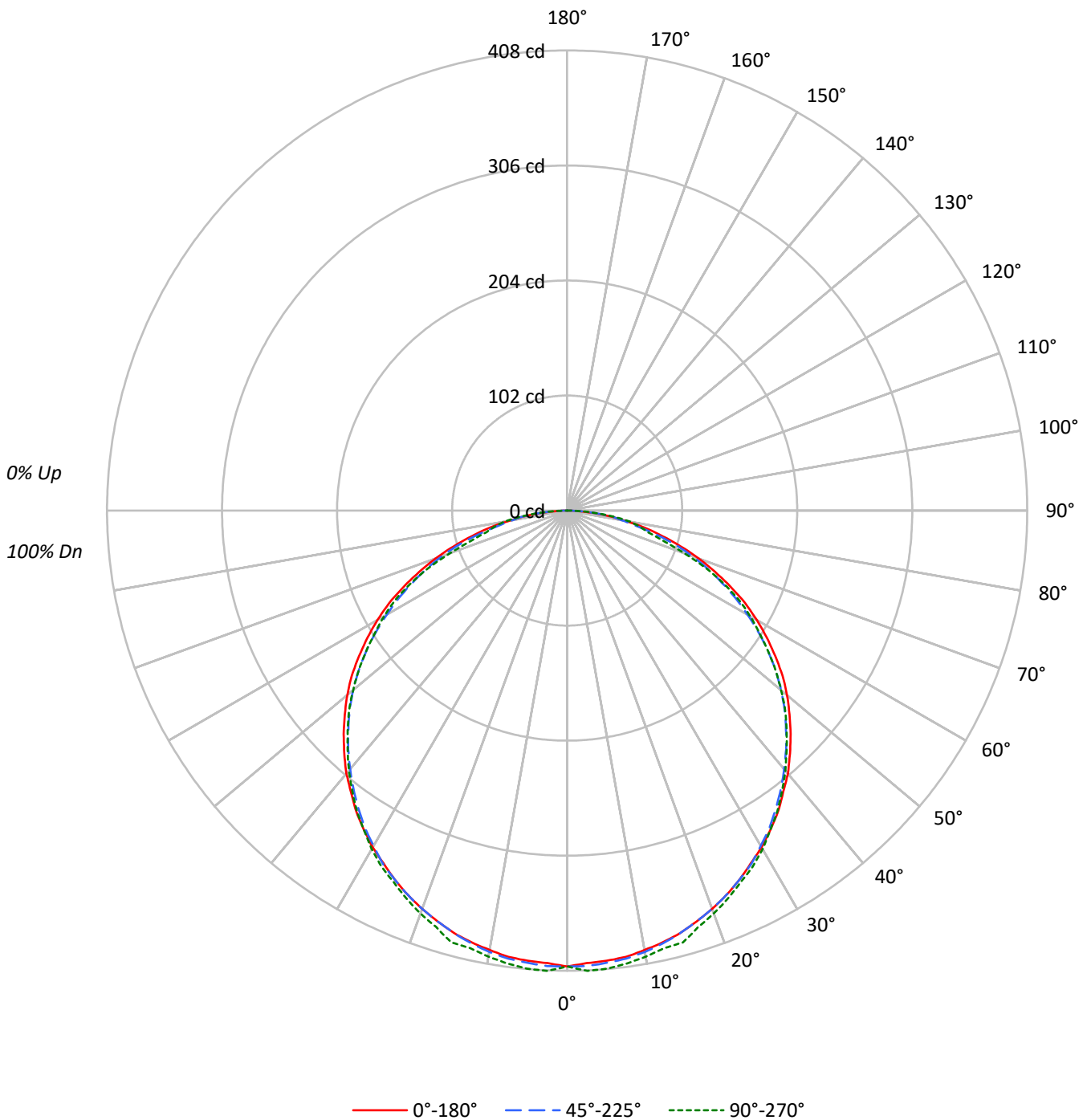
Lumens per Lamp: N/A  
Luminaire Lumens: 1193.7 lumens  
Efficiency: N/A  
Efficacy: 76.0 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 2' x H: 0.1')  
CIE Type: Direct

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°	2175	2175	2175
5°	2155	2155	2184
10°	2143	2131	2157
15°	2132	2101	2151
20°	2114	2072	2101
25°	2096	2044	2064
30°	2083	2010	2036
35°	2069	1972	1996
40°	2053	1931	1951
45°	2032	1888	1904
50°	2011	1841	1853
55°	1973	1773	1787
60°	1925	1681	1720
65°	1839	1570	1605
70°	1714	1435	1359
75°	1537	1205	1119
80°	1265	948	1121
85°	845	698	743



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	38.3	3.2
10°-20°	109.8	9.2
20°-30°	166.8	14.0
30°-40°	202.7	17.0
40°-50°	213.1	17.9
50°-60°	196.2	16.4
60°-70°	152.4	12.8
70°-80°	86.9	7.3
80°-90°	27.4	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°	315.0	26.4
0°-40°	517.6	43.4
0°-60°	926.9	77.7
0°-90°	1193.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1193.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	404	404	404	404	404	
5°	401	402	402	404	408	38
15°	388	389	388	390	396	109
25°	361	362	361	362	364	167
35°	326	325	322	322	325	204
45°	280	279	274	274	275	216
55°	225	224	218	216	218	201
65°	160	157	151	153	153	158
75°	88	86	81	74	74	93
85°	22	23	25	26	26	26
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	404.2	404.2	404.2	404.2	404.2
2.5°	401.6	403.4	404.2	405.0	408.5
5°	400.7	401.6	402.5	404.2	407.7
7.5°	399.1	399.9	400.7	403.4	405.0
10°	395.6	396.4	397.3	398.2	401.6
12.5°	392.1	393.0	393.0	394.8	397.3
15°	387.8	388.7	387.8	389.6	396.4
17.5°	381.9	384.4	381.9	383.5	387.0
20°	375.8	376.7	375.8	376.7	380.1
22.5°	369.0	369.0	369.0	368.1	372.4
25°	361.2	362.0	361.2	362.0	363.8
27.5°	352.6	354.3	353.4	352.6	356.1
30°	344.8	344.8	343.2	343.2	346.6
32.5°	335.4	337.1	333.7	333.7	335.4
35°	326.0	325.1	322.5	322.5	325.1
37.5°	314.7	313.9	311.3	310.4	313.1
40°	304.5	302.7	299.3	299.3	301.0
42.5°	292.4	290.7	287.3	286.4	288.1
45°	280.3	278.7	274.4	273.5	275.2
47.5°	267.4	266.6	261.5	260.6	262.3
50°	254.5	252.9	247.7	245.9	247.7
52.5°	240.8	238.2	233.0	231.4	233.0
55°	225.3	223.6	217.6	215.8	217.6
57.5°	209.9	208.1	201.3	200.4	202.1
60°	194.3	191.8	184.9	184.9	187.5
62.5°	178.0	174.6	168.5	169.4	172.0
65°	159.9	157.4	151.3	153.1	153.1
67.5°	141.9	140.2	135.0	134.1	133.3
70°	123.9	122.1	117.8	113.5	110.1
72.5°	105.8	103.2	100.6	91.1	89.5
75°	87.7	86.0	80.9	73.9	73.9
77.5°	70.5	69.6	62.8	62.8	66.2
80°	52.4	53.3	49.0	54.2	56.7
82.5°	37.0	36.1	39.5	42.2	42.2
85°	21.5	23.2	25.0	25.8	25.8
87.5°	9.4	10.3	10.3	11.2	10.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)