

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: P184357

Luminaire Tested: **ENW/ENC-12-4-LD1-28-40-CP125-UNV-EDC1**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P184357  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P32841)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: ENW/ENC-12-4-LD1-28-40-CP125-UNV-EDC1  
Description: FAIL-SAFE 1X4 ENCOUNTER W/ 0.125" THICK POLY LENS  
Light Source: 4000K LEDS  
Ballast/Driver: -

**Summary**

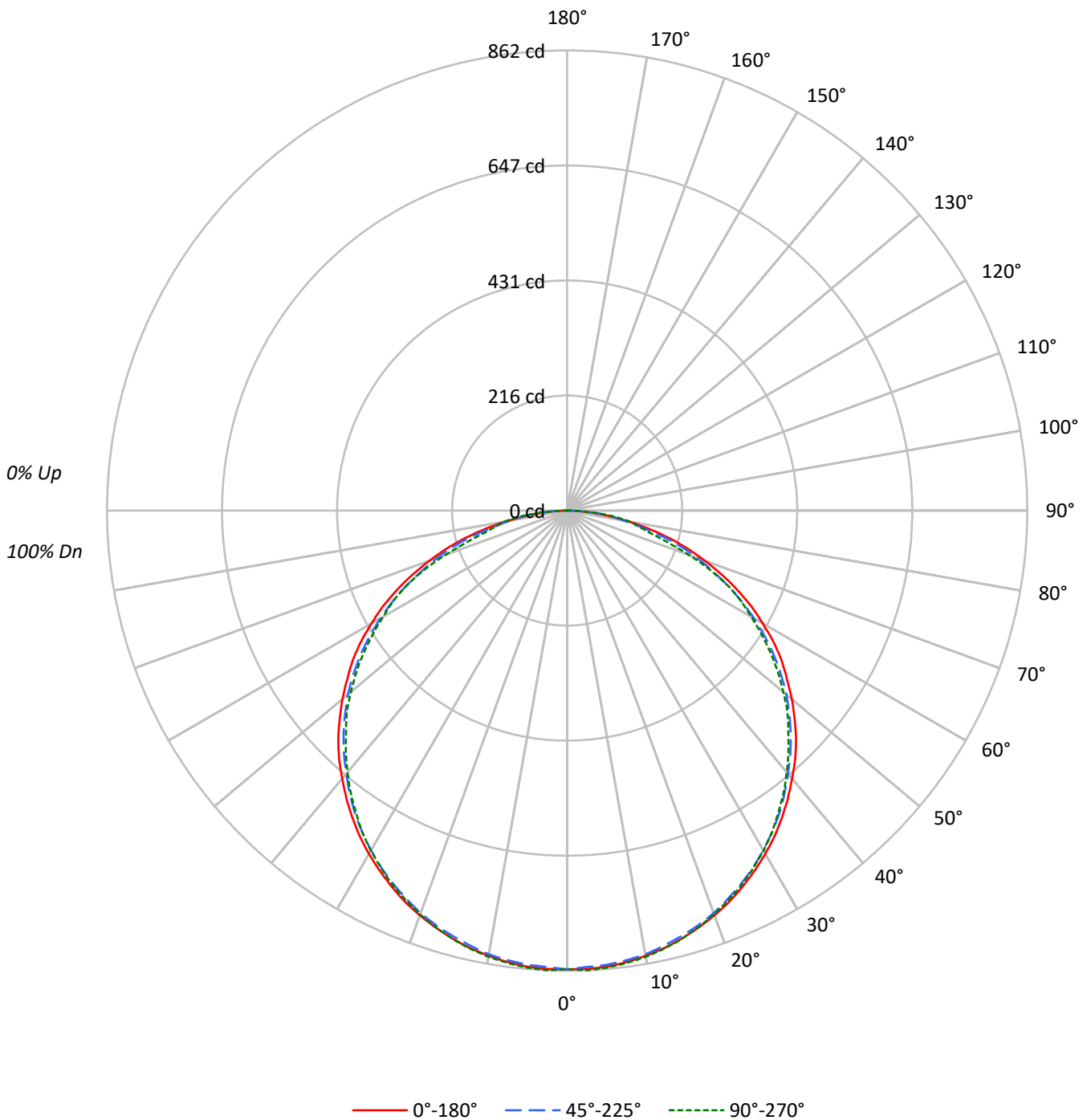
Lumens per Lamp: N/A  
Luminaire Lumens: 2572.8 lumens  
Efficiency: N/A  
Efficacy: 90.0 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.4  
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 28.6  
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	93	97	94	90	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	65	61	69	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	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	39	51	44	39	50	43	39	37
7	64	50	41	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	41	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23

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

	0°	45°	90°
0°	2312	2312	2312
5°	2311	2289	2301
10°	2304	2271	2279
15°	2297	2246	2254
20°	2290	2226	2224
25°	2282	2199	2195
30°	2275	2172	2161
35°	2265	2144	2119
40°	2255	2105	2075
45°	2251	2071	2027
50°	2234	2030	1978
55°	2223	1970	1912
60°	2182	1887	1826
65°	2126	1773	1741
70°	2019	1640	1500
75°	1863	1420	1200
80°	1570	1103	1180
85°	1112	875	808



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.4	3.2
10°-20°	233.9	9.1
20°-30°	356.7	13.9
30°-40°	434.4	16.9
40°-50°	458.5	17.8
50°-60°	424.6	16.5
60°-70°	332.1	12.9
70°-80°	191.1	7.4
80°-90°	60.0	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°	672.1	26.1
0°-40°	1106.5	43.0
0°-60°	1989.5	77.3
0°-90°	2572.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2572.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	859	859	859	859	859	
5°	858	858	854	858	859	81
15°	830	830	825	829	831	234
25°	777	776	771	772	774	359
35°	702	698	693	690	690	439
45°	606	601	592	587	586	467
55°	491	484	473	467	466	437
65°	352	345	331	330	332	347
75°	196	189	182	162	158	206
85°	46	49	57	56	56	55
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	859.3	859.3	859.3	859.3	859.3
2.5°	859.3	859.3	855.7	860.2	862.0
5°	857.5	857.5	854.0	857.5	859.3
7.5°	853.1	853.1	849.5	853.1	854.9
10°	846.8	846.8	844.2	846.8	848.7
12.5°	839.7	838.9	835.2	838.9	840.6
15°	829.9	829.9	825.4	829.1	830.8
17.5°	819.2	818.4	814.8	816.5	818.4
20°	806.8	805.9	802.3	804.1	804.9
22.5°	793.4	791.7	787.2	789.0	789.8
25°	777.4	775.7	771.2	772.0	773.8
27.5°	760.5	758.7	754.2	754.2	755.1
30°	742.6	740.0	734.6	734.6	735.6
32.5°	723.1	719.5	714.2	713.3	714.2
35°	701.6	698.2	692.9	690.1	690.1
37.5°	679.4	675.8	668.7	666.0	666.0
40°	655.4	652.8	643.8	640.2	640.2
42.5°	632.3	627.8	618.8	614.4	613.5
45°	606.4	601.1	592.2	586.8	585.9
47.5°	577.9	574.4	564.6	559.2	560.1
50°	549.5	546.8	536.0	529.8	528.9
52.5°	519.2	516.5	504.9	499.5	497.8
55°	490.7	484.4	472.8	466.6	465.7
57.5°	458.5	451.5	439.1	433.7	431.9
60°	423.0	417.7	404.3	398.0	398.0
62.5°	389.2	382.9	368.7	364.2	367.7
65°	351.8	344.6	331.3	329.5	332.1
67.5°	313.4	306.3	293.9	293.0	289.4
70°	274.3	268.1	259.1	249.3	243.1
72.5°	236.0	228.8	223.5	203.9	195.9
75°	195.9	188.7	181.6	162.0	158.5
77.5°	155.8	152.3	138.9	133.6	136.2
80°	115.7	118.4	106.9	115.7	119.3
82.5°	78.3	81.0	85.5	92.6	91.7
85°	46.3	48.9	57.0	56.1	56.1
87.5°	20.5	25.0	24.1	24.1	24.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)