

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: P184359

Luminaire Tested: **ENW/ENC-12-4-LD1-28-40-CP250-UNV-EDC1**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P184359  
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-CP250-UNV-EDC1  
Description: FAIL-SAFE 1X4 ENCOUNTER W/ 0.250" THICK POLY LENS  
Light Source: 4000K LEDS  
Ballast/Driver: -

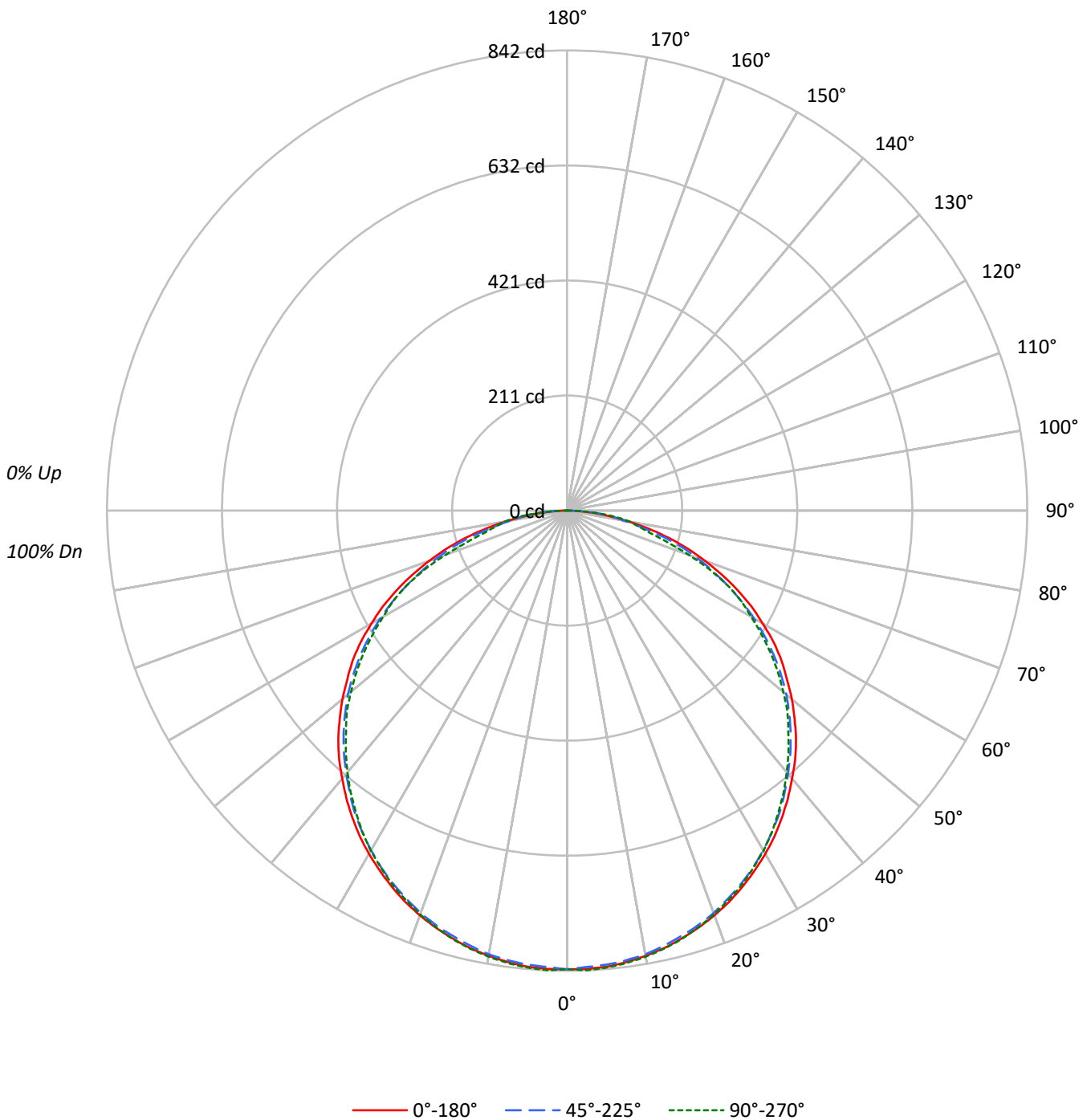
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2512.9 lumens  
Efficiency: N/A  
Efficacy: 87.9 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°	2259	2259	2259
5°	2258	2236	2248
10°	2250	2218	2226
15°	2243	2194	2202
20°	2236	2174	2172
25°	2229	2148	2144
30°	2222	2121	2111
35°	2213	2093	2069
40°	2203	2056	2027
45°	2199	2022	1980
50°	2182	1983	1932
55°	2171	1924	1867
60°	2131	1843	1783
65°	2077	1732	1701
70°	1972	1602	1465
75°	1819	1387	1172
80°	1534	1078	1152
85°	1085	855	790



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	79.6	3.2
10°-20°	228.5	9.1
20°-30°	348.4	13.9
30°-40°	424.3	16.9
40°-50°	447.8	17.8
50°-60°	414.7	16.5
60°-70°	324.4	12.9
70°-80°	186.7	7.4
80°-90°	58.6	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°	656.4	26.1
0°-40°	1080.7	43.0
0°-60°	1943.2	77.3
0°-90°	2512.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2512.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	839	839	839	839	839	
5°	838	838	834	838	839	80
15°	811	811	806	810	812	229
25°	759	758	753	754	756	350
35°	685	682	677	674	674	429
45°	592	587	578	573	572	456
55°	479	473	462	456	455	427
65°	344	337	324	322	324	339
75°	191	184	177	158	155	202
85°	45	48	56	55	55	54
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	839.3	839.3	839.3	839.3	839.3
2.5°	839.3	839.3	835.8	840.2	841.9
5°	837.6	837.6	834.1	837.6	839.3
7.5°	833.2	833.2	829.7	833.2	835.0
10°	827.1	827.1	824.5	827.1	828.9
12.5°	820.1	819.3	815.8	819.3	821.0
15°	810.6	810.6	806.2	809.8	811.5
17.5°	800.1	799.3	795.8	797.5	799.3
20°	788.0	787.2	783.6	785.4	786.2
22.5°	774.9	773.2	768.9	770.6	771.4
25°	759.3	757.6	753.2	754.0	755.8
27.5°	742.8	741.1	736.7	736.7	737.5
30°	725.3	722.7	717.5	717.5	718.5
32.5°	706.3	702.7	697.5	696.7	697.5
35°	685.3	681.9	676.7	674.0	674.0
37.5°	663.6	660.1	653.1	650.5	650.5
40°	640.2	637.6	628.8	625.3	625.3
42.5°	617.6	613.2	604.4	600.1	599.2
45°	592.3	587.1	578.4	573.2	572.3
47.5°	564.5	561.0	551.4	546.2	547.1
50°	536.7	534.1	523.6	517.5	516.6
52.5°	507.1	504.4	493.2	487.9	486.2
55°	479.2	473.2	461.8	455.7	454.8
57.5°	447.9	441.0	428.8	423.6	421.9
60°	413.1	407.9	394.9	388.7	388.7
62.5°	380.1	374.0	360.1	355.7	359.1
65°	343.6	336.6	323.6	321.8	324.4
67.5°	306.1	299.2	287.0	286.2	282.6
70°	267.9	261.8	253.1	243.5	237.4
72.5°	230.5	223.5	218.3	199.2	191.3
75°	191.3	184.3	177.4	158.3	154.8
77.5°	152.2	148.8	135.6	130.5	133.1
80°	113.0	115.6	104.4	113.0	116.5
82.5°	76.5	79.1	83.5	90.4	89.5
85°	45.2	47.8	55.7	54.8	54.8
87.5°	20.0	24.4	23.5	23.5	23.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)