

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: P184358

Luminaire Tested: **ENW/ENC-12-4-LD1-28-40-CP187-UNV-EDC1**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P184358  
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-CP187-UNV-EDC1  
Description: FAIL-SAFE 1X4 ENCOUNTER W/ 0.187" THICK POLY LENS  
Light Source: 4000K LEDS  
Ballast/Driver: -

**Summary**

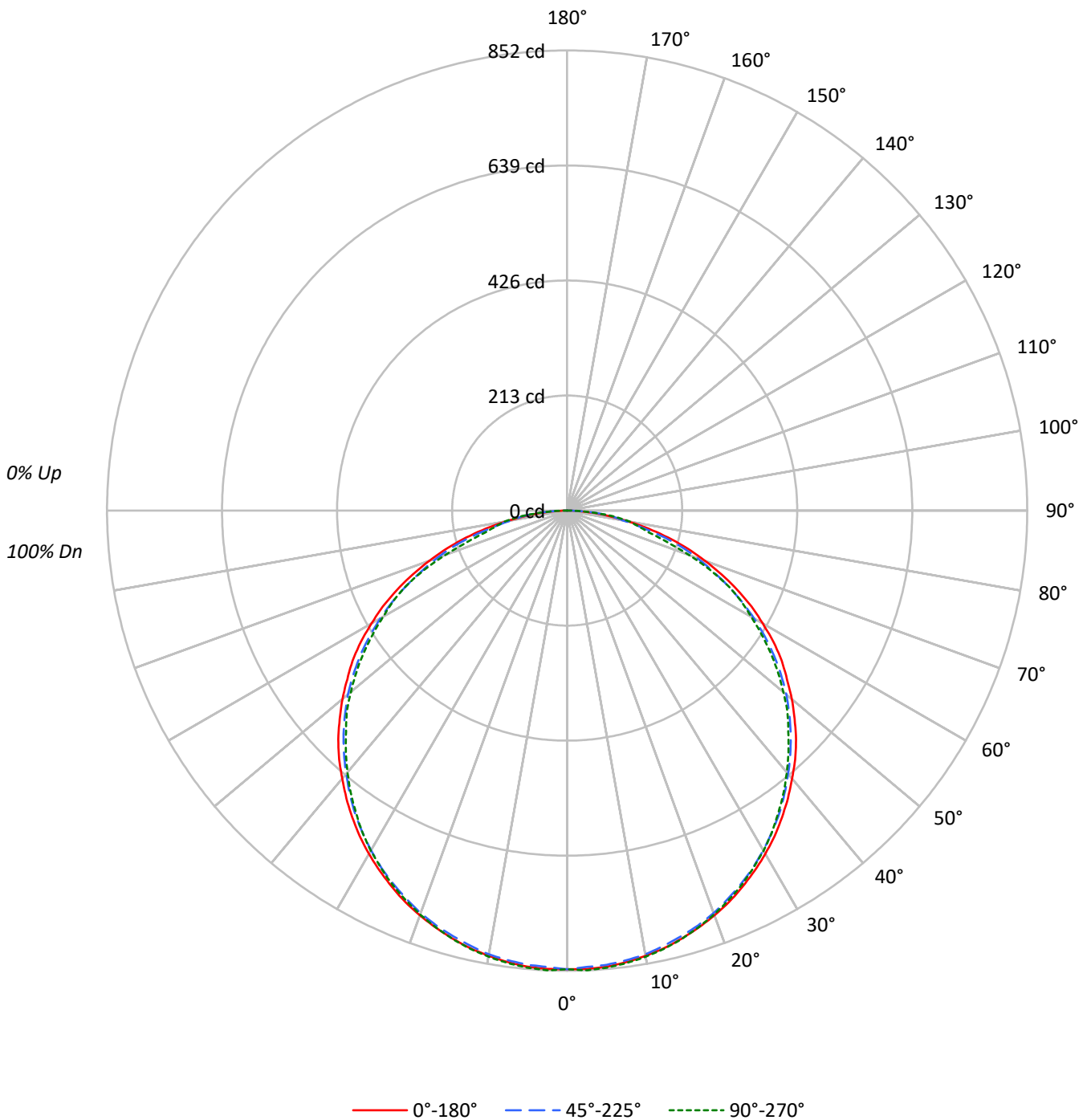
Lumens per Lamp: N/A  
Luminaire Lumens: 2543.0 lumens  
Efficiency: N/A  
Efficacy: 88.9 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.4  
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.1')  
CIE Type: Direct

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°	2285	2285	2285
5°	2285	2263	2274
10°	2277	2245	2252
15°	2270	2220	2228
20°	2263	2200	2198
25°	2255	2174	2170
30°	2248	2147	2136
35°	2239	2119	2094
40°	2229	2081	2051
45°	2225	2047	2003
50°	2208	2007	1956
55°	2197	1947	1890
60°	2157	1865	1805
65°	2101	1753	1721
70°	1996	1621	1483
75°	1841	1403	1186
80°	1553	1090	1166
85°	1100	865	798



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	80.5	3.2
10°-20°	231.2	9.1
20°-30°	352.6	13.9
30°-40°	429.4	16.9
40°-50°	453.2	17.8
50°-60°	419.7	16.5
60°-70°	328.3	12.9
70°-80°	188.9	7.4
80°-90°	59.3	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°	664.3	26.1
0°-40°	1093.7	43.0
0°-60°	1966.5	77.3
0°-90°	2543.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2543.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	849	849	849	849	849	
5°	848	848	844	848	849	81
15°	820	820	816	820	821	232
25°	768	767	762	763	765	354
35°	694	690	685	682	682	434
45°	599	594	585	580	579	462
55°	485	479	467	461	460	432
65°	348	341	327	326	328	343
75°	194	187	180	160	157	204
85°	46	48	56	55	55	55
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	849.3	849.3	849.3	849.3	849.3
2.5°	849.3	849.3	845.8	850.2	852.0
5°	847.6	847.6	844.1	847.6	849.3
7.5°	843.2	843.2	839.6	843.2	845.0
10°	837.0	837.0	834.4	837.0	838.8
12.5°	830.0	829.2	825.5	829.2	830.9
15°	820.3	820.3	815.9	819.5	821.2
17.5°	809.7	808.9	805.4	807.1	808.9
20°	797.4	796.6	793.0	794.8	795.6
22.5°	784.2	782.5	778.1	779.9	780.7
25°	768.4	766.7	762.2	763.0	764.9
27.5°	751.7	749.9	745.5	745.5	746.3
30°	734.0	731.4	726.1	726.1	727.1
32.5°	714.8	711.1	705.9	705.0	705.9
35°	693.5	690.1	684.8	682.1	682.1
37.5°	671.5	668.0	661.0	658.3	658.3
40°	647.8	645.2	636.4	632.8	632.8
42.5°	625.0	620.5	611.7	607.2	606.4
45°	599.4	594.1	585.4	580.0	579.1
47.5°	571.2	567.7	558.0	552.7	553.6
50°	543.1	540.5	529.8	523.7	522.8
52.5°	513.2	510.5	499.1	493.7	492.0
55°	485.0	478.8	467.3	461.2	460.3
57.5°	453.2	446.3	434.0	428.6	426.9
60°	418.1	412.8	399.6	393.4	393.4
62.5°	384.7	378.4	364.4	360.0	363.4
65°	347.7	340.6	327.4	325.6	328.3
67.5°	309.8	302.8	290.5	289.6	286.0
70°	271.1	265.0	256.1	246.4	240.3
72.5°	233.2	226.2	220.9	201.6	193.6
75°	193.6	186.6	179.5	160.2	156.6
77.5°	154.0	150.6	137.3	132.0	134.7
80°	114.4	117.0	105.6	114.4	117.9
82.5°	77.4	80.0	84.5	91.5	90.6
85°	45.8	48.4	56.3	55.4	55.4
87.5°	20.3	24.7	23.8	23.8	23.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)