

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: P184326

Luminaire Tested: **ENW/ENC-12-4-LD1-33-40-CA080-UNV-EDC1**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P184326  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P32842)  
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-LD1-33-40-CA080-UNV-EDC1  
Description: FAIL-SAFE 1X4 ENCOUNTER W/ 0.080" THICK CLEAR ACRYLIC LENS  
Light Source: 4000K LEDS  
Ballast/Driver: -

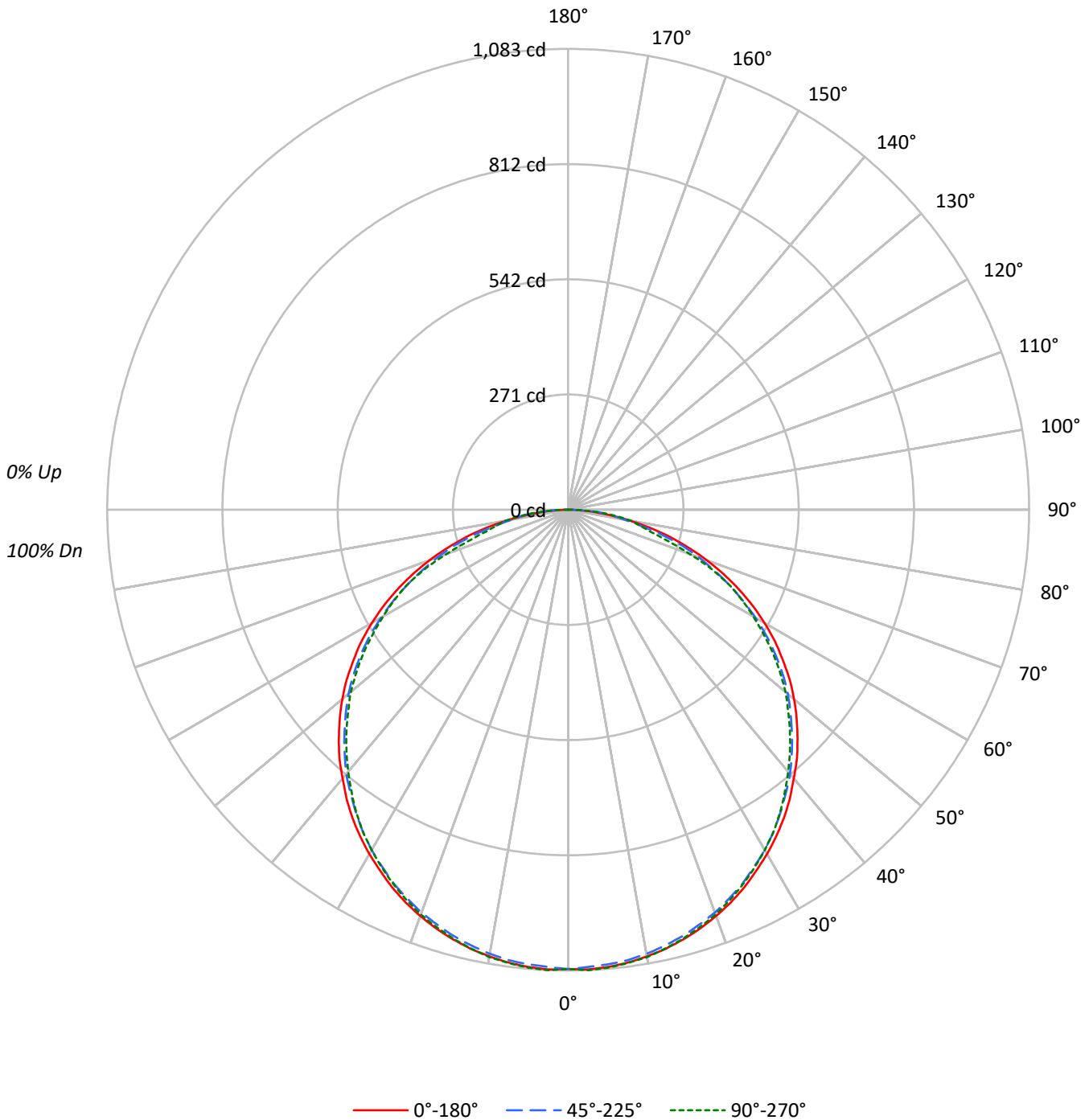
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3233.8 lumens  
Efficiency: N/A  
Efficacy: 96.8 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.27 / 1.4  
Luminous Opening: Rectangular w/ Sides (W: 4' x L: 1' x H: 0.1')  
CIE Type: Direct  
  
Input Watts (W): 33.4  
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°	2905	2905	2905
5°	2888	2875	2912
10°	2862	2852	2905
15°	2836	2824	2887
20°	2808	2795	2872
25°	2778	2764	2851
30°	2745	2731	2829
35°	2713	2689	2803
40°	2672	2652	2766
45°	2637	2600	2736
50°	2592	2551	2710
55°	2525	2477	2659
60°	2442	2372	2591
65°	2317	2230	2523
70°	2132	2064	2236
75°	1879	1788	1898
80°	1444	1377	2035
85°	814	1121	1683



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.4	3.2
10°-20°	294.0	9.1
20°-30°	448.2	13.9
30°-40°	546.1	16.9
40°-50°	576.3	17.8
50°-60°	534.1	16.5
60°-70°	417.5	12.9
70°-80°	240.1	7.4
80°-90°	75.0	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°	844.6	26.1
0°-40°	1390.7	43.0
0°-60°	2501.1	77.3
0°-90°	3233.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3233.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1079	1079	1079	1079	1079	
5°	1078	1077	1072	1077	1080	103
15°	1045	1042	1038	1041	1043	295
25°	979	975	969	970	971	451
35°	884	878	869	867	868	553
45°	762	757	744	738	737	588
55°	615	610	595	587	587	550
65°	442	433	417	416	418	436
75°	248	236	229	204	200	260
85°	56	61	73	69	70	69
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1079.4	1079.4	1079.4	1079.4	1079.4
2.5°	1081.4	1080.3	1075.5	1080.3	1083.3
5°	1078.5	1077.4	1072.5	1077.4	1080.3
7.5°	1073.6	1072.5	1067.7	1072.5	1074.5
10°	1065.8	1063.8	1059.9	1064.8	1067.7
12.5°	1057.0	1054.1	1049.2	1054.1	1056.0
15°	1045.4	1042.4	1037.6	1041.4	1043.4
17.5°	1031.7	1028.7	1022.9	1026.9	1028.7
20°	1016.1	1013.2	1007.4	1010.3	1012.2
22.5°	998.7	994.7	988.9	989.8	992.7
25°	979.1	975.2	969.4	970.4	971.4
27.5°	956.7	952.9	946.0	947.0	948.0
30°	934.4	930.5	923.6	922.7	923.6
32.5°	910.0	905.1	897.4	895.4	897.4
35°	883.8	878.0	869.1	867.2	868.2
37.5°	855.5	850.7	840.0	837.1	836.0
40°	824.4	820.5	810.8	804.9	804.0
42.5°	795.1	789.3	777.7	772.8	770.9
45°	762.1	757.3	743.6	737.8	736.8
47.5°	728.0	722.2	708.6	702.7	700.8
50°	693.0	687.1	673.5	665.7	666.7
52.5°	656.0	649.2	635.5	627.8	626.8
55°	615.1	610.2	594.6	586.9	586.9
57.5°	576.2	568.4	552.8	544.1	544.1
60°	532.4	523.7	508.1	500.3	502.2
62.5°	488.6	480.8	462.3	458.4	461.4
65°	441.9	433.2	416.6	415.6	417.5
67.5°	394.1	384.5	369.9	368.9	365.0
70°	345.5	335.8	326.1	313.4	303.7
72.5°	295.9	288.1	280.3	255.0	246.3
75°	248.2	236.5	228.7	204.4	199.6
77.5°	196.6	191.8	175.2	166.5	171.3
80°	146.0	148.9	133.4	144.0	149.9
82.5°	98.3	102.2	107.1	114.9	113.8
85°	56.5	61.3	73.0	69.1	70.1
87.5°	24.3	30.2	31.1	30.2	31.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)