

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: P184325

Luminaire Tested: **ENW/ENC-12-4-LD1-28-40-CA080-UNV-EDC1**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P184325  
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-CA080-UNV-EDC1  
Description: FAIL-SAFE 1X4 ENCOUNTER W/ 0.080" THICK ACRYLIC LENS  
Light Source: 4000K LEDS  
Ballast/Driver: -

**Summary**

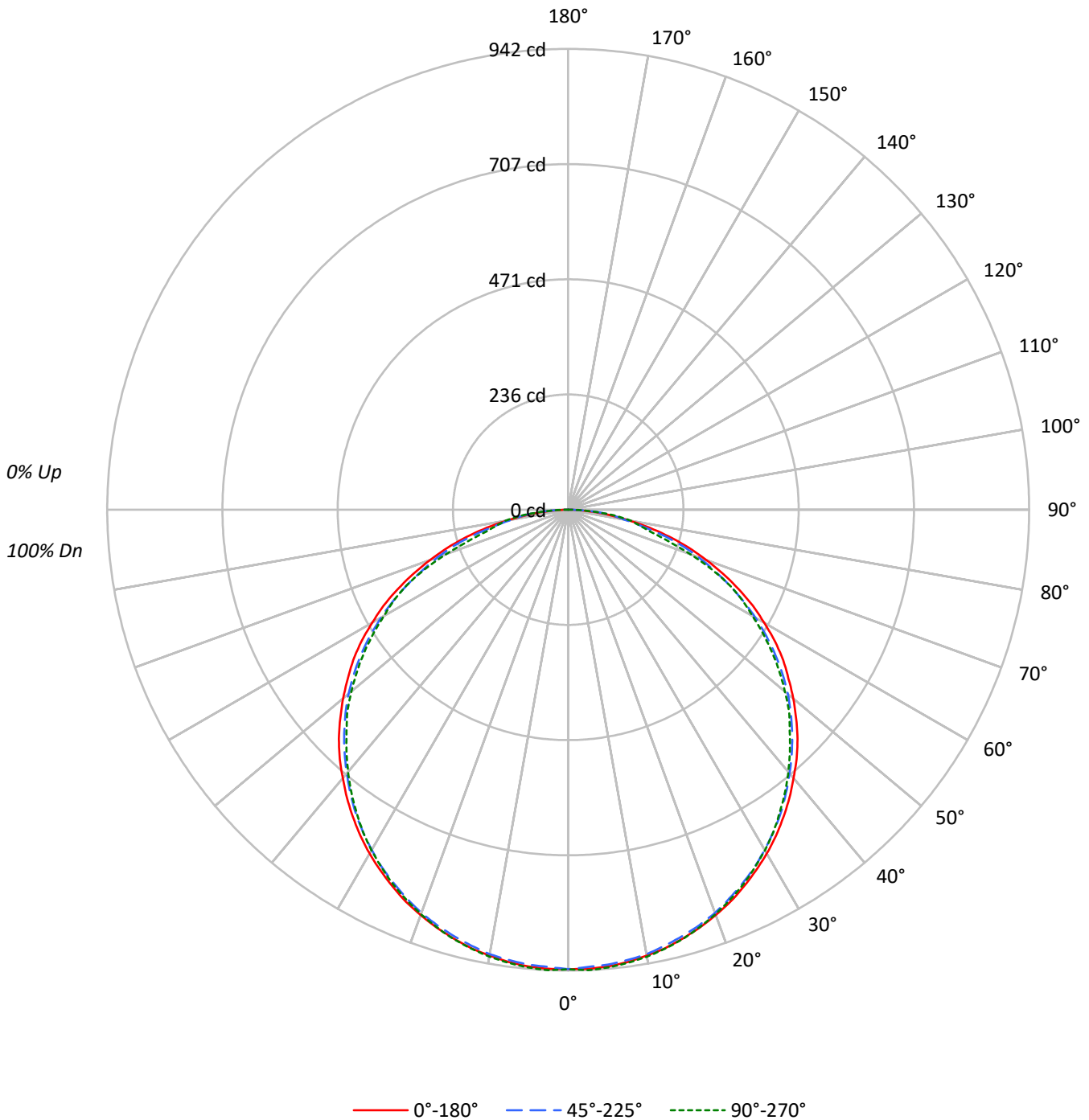
Lumens per Lamp: N/A  
Luminaire Lumens: 2812.1 lumens  
Efficiency: N/A  
Efficacy: 98.3 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.4  
Luminous Opening: Rectangular w/ Sides (W: 4' x L: 1' x H: 0.1')  
CIE Type: Direct

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	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					100			
1	108	103	99	95	106	101	97	93	97	94	90	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69					69			
3	89	79	70	64	87	77	69	63	74	67	62	71	65	61	69	64	60	57					57			
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	43	39	37					37			
7	64	50	41	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32					32			
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29					29			
9	56	42	34	28	54	41	34	28	40	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23					23			

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

	0°	45°	90°
0°	2527	2527	2527
5°	2510	2502	2531
10°	2485	2483	2524
15°	2461	2455	2513
20°	2437	2433	2497
25°	2410	2404	2482
30°	2385	2374	2463
35°	2354	2343	2435
40°	2322	2301	2408
45°	2293	2263	2378
50°	2247	2219	2350
55°	2202	2153	2306
60°	2121	2063	2244
65°	2016	1938	2194
70°	1850	1793	1956
75°	1621	1552	1647
80°	1251	1206	1770
85°	729	957	1472



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	89.0	3.2
10°-20°	255.7	9.1
20°-30°	389.9	13.9
30°-40°	474.8	16.9
40°-50°	501.1	17.8
50°-60°	464.1	16.5
60°-70°	363.0	12.9
70°-80°	208.9	7.4
80°-90°	65.6	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°	734.6	26.1
0°-40°	1209.4	43.0
0°-60°	2174.6	77.3
0°-90°	2812.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2812.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	939	939	939	939	939	
5°	937	937	933	937	939	89
15°	907	907	902	906	908	256
25°	850	848	843	844	846	392
35°	767	763	757	754	754	480
45°	663	657	647	641	640	511
55°	536	530	517	510	509	478
65°	384	377	362	360	363	380
75°	214	206	198	177	173	226
85°	51	54	62	61	61	60
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	939.2	939.2	939.2	939.2	939.2
2.5°	939.2	939.2	935.3	940.2	942.2
5°	937.3	937.3	933.4	937.3	939.2
7.5°	932.4	932.4	928.5	932.4	934.4
10°	925.6	925.6	922.7	925.6	927.6
12.5°	917.8	916.9	912.9	916.9	918.8
15°	907.1	907.1	902.2	906.2	908.1
17.5°	895.4	894.5	890.6	892.5	894.5
20°	881.8	880.9	876.9	878.9	879.8
22.5°	867.2	865.3	860.4	862.4	863.3
25°	849.7	847.8	842.9	843.8	845.8
27.5°	831.2	829.3	824.4	824.4	825.3
30°	811.7	808.8	802.9	802.9	804.0
32.5°	790.4	786.4	780.6	779.6	780.6
35°	766.9	763.1	757.3	754.3	754.3
37.5°	742.6	738.7	730.9	728.0	728.0
40°	716.4	713.5	703.7	699.8	699.8
42.5°	691.1	686.2	676.4	671.5	670.6
45°	662.8	657.0	647.3	641.4	640.4
47.5°	631.7	627.8	617.1	611.2	612.2
50°	600.6	597.7	585.9	579.1	578.1
52.5°	567.5	564.5	551.9	546.0	544.1
55°	536.3	529.5	516.8	510.0	509.0
57.5°	501.2	493.5	479.9	474.0	472.1
60°	462.3	456.5	441.9	435.0	435.0
62.5°	425.4	418.5	403.0	398.1	401.9
65°	384.5	376.7	362.1	360.1	363.0
67.5°	342.6	334.8	321.2	320.3	316.3
70°	299.8	293.0	283.2	272.5	265.7
72.5°	257.9	250.1	244.3	222.9	214.1
75°	214.1	206.3	198.5	177.1	173.2
77.5°	170.3	166.5	151.8	146.0	148.9
80°	126.5	129.4	116.8	126.5	130.4
82.5°	85.6	88.5	93.4	101.2	100.2
85°	50.6	53.5	62.3	61.3	61.3
87.5°	22.4	27.3	26.3	26.3	26.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)