

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: P184334

Luminaire Tested: **ENW/ENC-24-4-LD1-67-40-CA080-UNV-EDC1**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P184334  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: ENW/ENC-24-4-LD1-67-40-CA080-UNV-EDC1  
Description: FAIL-SAFE 2X4 ENCOUNTER W/ 0.080" THICK CLEAR ACRYLIC LENS  
Light Source: 4000K LEDS  
Ballast/Driver: -

**Summary**

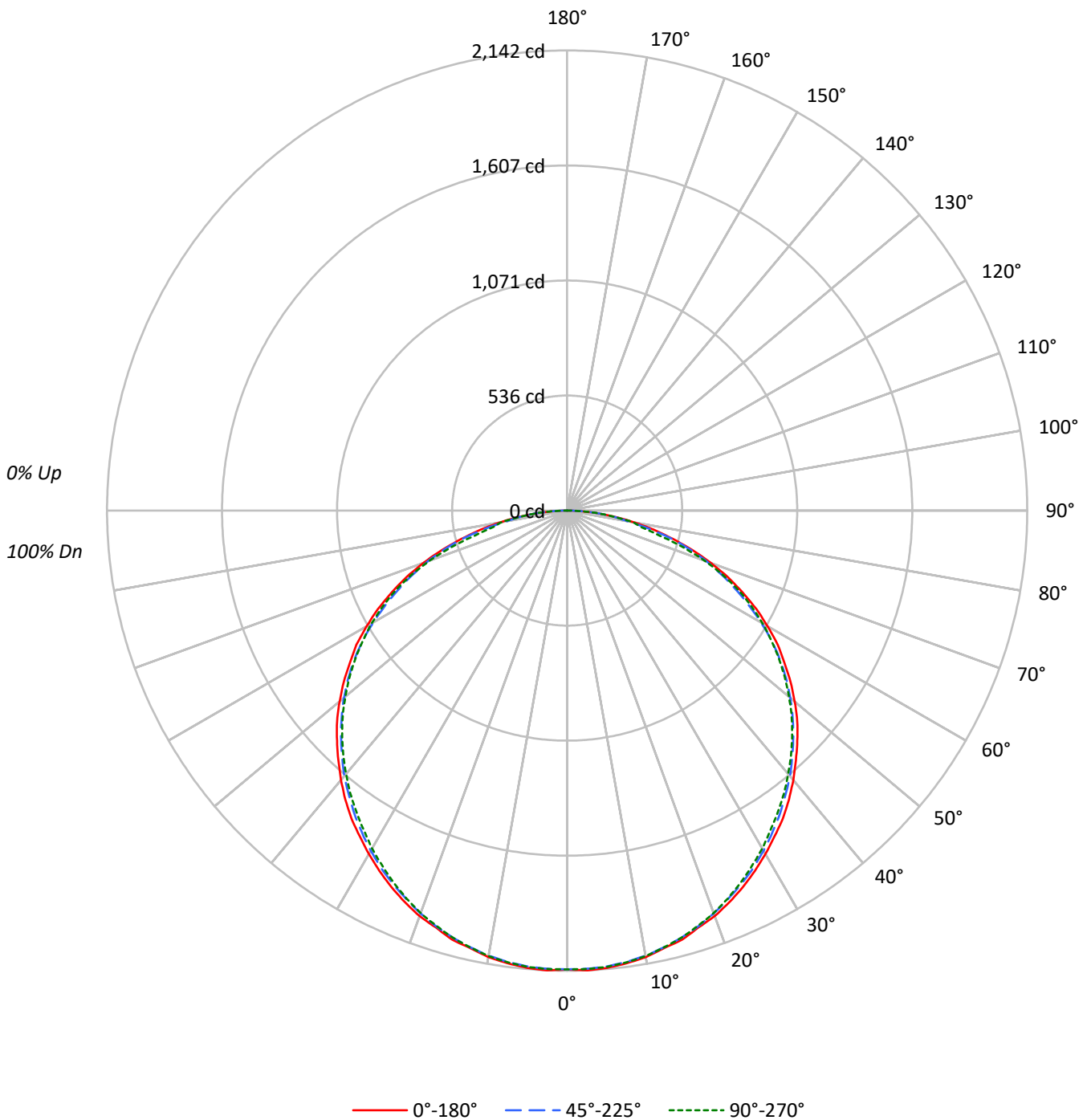
Lumens per Lamp: N/A  
Luminaire Lumens: 6522.1 lumens  
Efficiency: N/A  
Efficacy: 92.9 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.26 / 1.4  
Luminous Opening: Rectangular w/ Sides (W: 4' x L: 2' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 70.2  
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	105	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	89	82	76	95	87	81	75	84	78	74	81	76	72	78	74	70	68
3	89	78	70	63	87	77	69	62	73	67	61	71	65	60	68	63	59	57
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	60	55	50	48
5	75	61	52	45	73	60	52	45	58	50	45	56	49	44	54	48	44	41
6	69	55	46	39	67	54	46	39	52	45	39	51	44	38	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	31	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

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

	0°	45°	90°
0°	2874	2874	2874
5°	2873	2864	2873
10°	2858	2848	2864
15°	2843	2826	2847
20°	2825	2803	2829
25°	2806	2779	2804
30°	2788	2756	2781
35°	2778	2733	2763
40°	2760	2714	2754
45°	2746	2691	2750
50°	2732	2670	2740
55°	2702	2636	2727
60°	2668	2569	2711
65°	2589	2470	2667
70°	2458	2369	2502
75°	2232	2170	2087
80°	1912	1691	2099
85°	1376	1337	1716



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	202.5	3.1
10°-20°	580.9	8.9
20°-30°	884.4	13.6
30°-40°	1080.6	16.6
40°-50°	1152.0	17.7
50°-60°	1083.4	16.6
60°-70°	867.5	13.3
70°-80°	514.7	7.9
80°-90°	156.1	2.4
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°	1667.8	25.6
0°-40°	2748.3	42.1
0°-60°	4983.8	76.4
0°-90°	6522.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6522.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2136	2136	2136	2136	2136	
5°	2137	2128	2130	2126	2132	203
15°	2068	2060	2058	2051	2058	583
25°	1934	1926	1918	1905	1911	892
35°	1750	1741	1726	1709	1712	1095
45°	1515	1506	1489	1478	1481	1170
55°	1234	1223	1209	1198	1204	1105
65°	900	887	864	873	883	890
75°	510	501	500	454	439	539
85°	140	131	139	139	143	157
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2135.7	2135.7	2135.7	2135.7	2135.7
2.5°	2142.3	2135.7	2134.7	2131.0	2135.7
5°	2136.6	2128.2	2130.0	2126.3	2131.9
7.5°	2125.3	2119.7	2118.8	2115.9	2120.6
10°	2110.3	2104.7	2103.7	2099.0	2105.6
12.5°	2085.9	2084.9	2082.1	2077.4	2083.0
15°	2068.0	2060.5	2057.7	2051.1	2057.7
17.5°	2034.2	2032.3	2028.5	2021.9	2026.6
20°	2008.8	2001.3	1995.6	1986.2	1993.7
22.5°	1973.1	1965.5	1957.1	1947.7	1954.3
25°	1934.5	1926.1	1918.5	1905.4	1911.0
27.5°	1891.3	1883.8	1875.3	1860.3	1864.0
30°	1846.2	1838.6	1828.3	1812.3	1816.1
32.5°	1797.3	1789.8	1777.5	1761.6	1762.5
35°	1750.3	1740.9	1725.8	1708.9	1711.7
37.5°	1695.8	1687.3	1668.5	1653.5	1658.2
40°	1637.5	1630.9	1614.0	1598.0	1600.8
42.5°	1576.4	1570.7	1551.0	1536.0	1542.5
45°	1515.3	1505.9	1489.0	1477.7	1481.4
47.5°	1453.2	1444.8	1424.1	1412.8	1417.5
50°	1382.7	1372.4	1356.4	1345.1	1348.0
52.5°	1311.3	1301.9	1285.0	1272.8	1277.5
55°	1234.2	1222.9	1208.8	1197.6	1204.1
57.5°	1162.8	1144.9	1129.9	1120.5	1128.0
60°	1077.2	1065.0	1042.5	1040.6	1050.9
62.5°	992.6	976.7	953.2	959.7	968.2
65°	900.5	887.4	863.9	873.3	882.7
67.5°	809.3	790.5	776.4	783.0	785.8
70°	710.6	696.5	690.0	680.6	679.6
72.5°	610.1	599.7	598.8	572.5	562.1
75°	509.5	501.0	500.1	454.0	439.0
77.5°	411.7	408.9	389.2	352.5	352.5
80°	316.8	320.5	283.9	296.1	309.3
82.5°	222.8	223.7	219.0	219.0	220.0
85°	140.1	130.7	139.1	139.1	142.9
87.5°	56.4	61.1	63.9	67.7	68.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)