

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: P184392

Luminaire Tested: **ENW/ENC-24-4-LD1-67-40-CA125-UNV-EDC1**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P184392  
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-CA125-UNV-EDC1  
Description: FAIL-SAFE 2X4 ENCOUNTER W/ 0.125" THICK CLEAR ACRYLIC LENS  
Light Source: 4000K LEDS  
Ballast/Driver: -

**Summary**

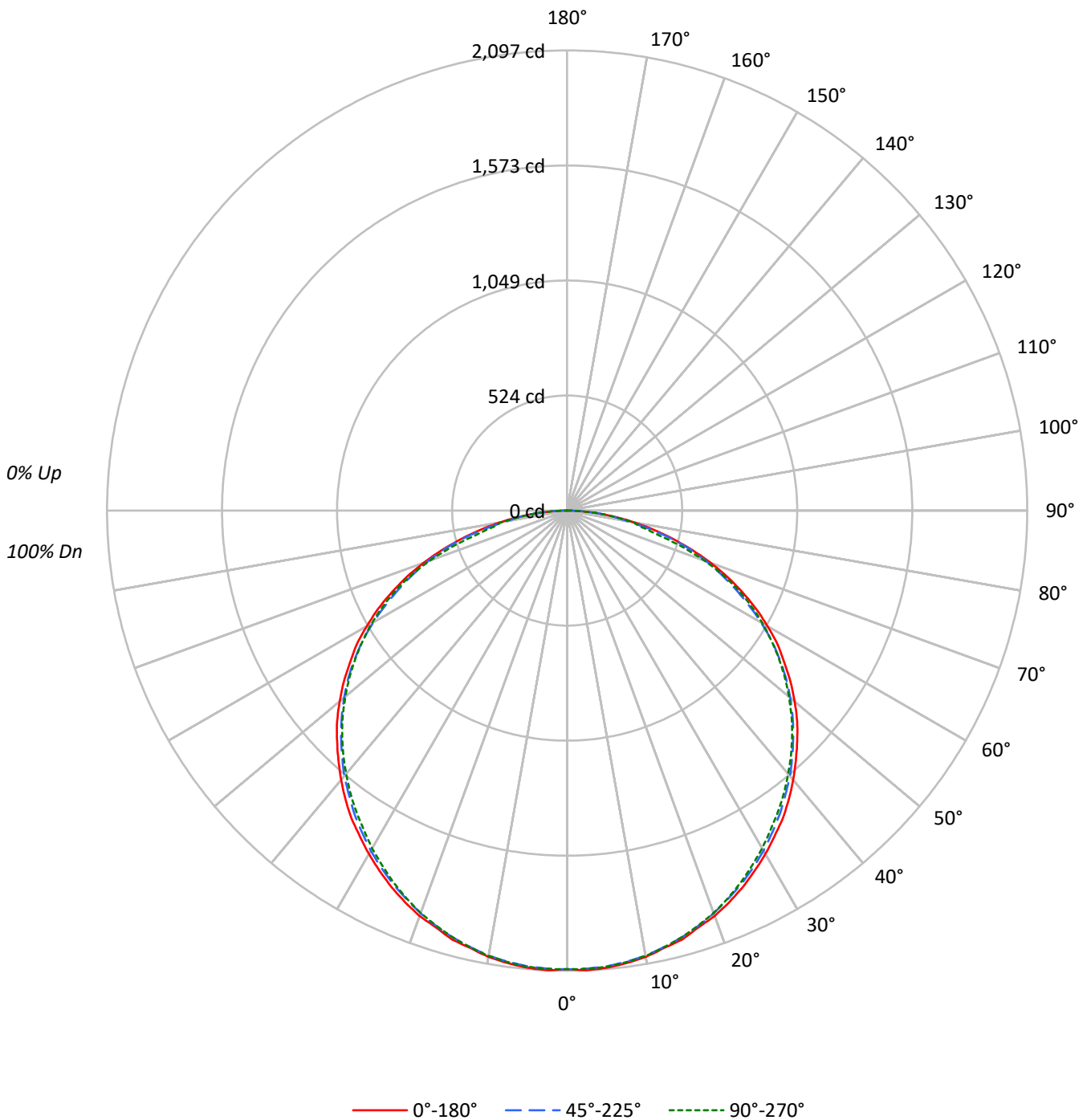
Lumens per Lamp: N/A  
Luminaire Lumens: 6383.2 lumens  
Efficiency: N/A  
Efficacy: 90.9 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.26 / 1.4  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 70.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	2812	2812	2812
5°	2818	2803	2806
10°	2809	2787	2791
15°	2801	2766	2768
20°	2790	2744	2744
25°	2778	2720	2713
30°	2767	2697	2684
35°	2765	2675	2659
40°	2757	2656	2641
45°	2753	2633	2627
50°	2751	2614	2606
55°	2736	2580	2580
60°	2719	2515	2547
65°	2663	2417	2484
70°	2560	2319	2300
75°	2371	2124	1882
80°	2104	1655	1827
85°	1646	1308	1374



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	198.2	3.1
10°-20°	568.5	8.9
20°-30°	865.6	13.6
30°-40°	1057.6	16.6
40°-50°	1127.5	17.7
50°-60°	1060.4	16.6
60°-70°	849.1	13.3
70°-80°	503.7	7.9
80°-90°	152.8	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°	1632.2	25.6
0°-40°	2689.8	42.1
0°-60°	4877.6	76.4
0°-90°	6383.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6383.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2090	2090	2090	2090	2090	
5°	2091	2083	2085	2081	2086	199
15°	2024	2017	2014	2007	2014	571
25°	1893	1885	1878	1865	1870	873
35°	1713	1704	1689	1672	1675	1071
45°	1483	1474	1457	1446	1450	1145
55°	1208	1197	1183	1172	1178	1081
65°	881	868	846	855	864	871
75°	499	490	489	444	430	528
85°	137	128	136	136	140	154
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2090.2	2090.2	2090.2	2090.2	2090.2
2.5°	2096.7	2090.2	2089.2	2085.6	2090.2
5°	2091.1	2082.9	2084.6	2081.0	2086.5
7.5°	2080.0	2074.6	2073.7	2070.8	2075.4
10°	2065.4	2059.9	2058.9	2054.3	2060.8
12.5°	2041.5	2040.5	2037.8	2033.2	2038.6
15°	2024.0	2016.6	2013.9	2007.4	2013.9
17.5°	1990.9	1989.0	1985.3	1978.8	1983.4
20°	1966.0	1958.7	1953.1	1943.9	1951.2
22.5°	1931.1	1923.6	1915.4	1906.2	1912.7
25°	1893.3	1885.1	1877.6	1864.8	1870.3
27.5°	1851.0	1843.7	1835.4	1820.7	1824.3
30°	1806.9	1799.4	1789.4	1773.7	1777.4
32.5°	1759.0	1751.7	1739.6	1724.1	1725.0
35°	1713.0	1703.8	1689.0	1672.5	1675.2
37.5°	1659.7	1651.4	1633.0	1618.3	1622.9
40°	1602.6	1596.2	1579.6	1564.0	1566.7
42.5°	1542.8	1537.2	1518.0	1503.3	1509.6
45°	1483.0	1473.8	1457.3	1446.2	1449.8
47.5°	1422.2	1414.0	1393.8	1382.7	1387.3
50°	1353.2	1343.2	1327.5	1316.4	1319.3
52.5°	1283.4	1274.2	1257.6	1245.7	1250.3
55°	1207.9	1196.9	1183.1	1172.1	1178.5
57.5°	1138.0	1120.5	1105.8	1096.6	1104.0
60°	1054.3	1042.3	1020.3	1018.4	1028.5
62.5°	971.5	955.9	932.9	939.3	947.6
65°	881.3	868.5	845.5	854.7	863.9
67.5°	792.1	773.7	759.9	766.3	769.1
70°	695.5	681.7	675.3	666.1	665.1
72.5°	597.1	586.9	586.0	560.3	550.1
75°	498.6	490.3	489.4	444.3	429.6
77.5°	402.9	400.2	380.9	345.0	345.0
80°	310.1	313.7	277.9	289.8	302.7
82.5°	218.1	218.9	214.3	214.3	215.3
85°	137.1	127.9	136.1	136.1	139.9
87.5°	55.2	59.8	62.5	66.3	67.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)