

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: P184393

Luminaire Tested: **ENW/ENC-24-4-LD1-67-40-CP125-UNV-EDC1**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P184393  
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-CP125-UNV-EDC1  
Description: FAIL-SAFE 2X4 ENCOUNTER W/ 0.125" THICK CLEAR POLY LENS  
Light Source: 4000K LEDS  
Ballast/Driver: -

**Summary**

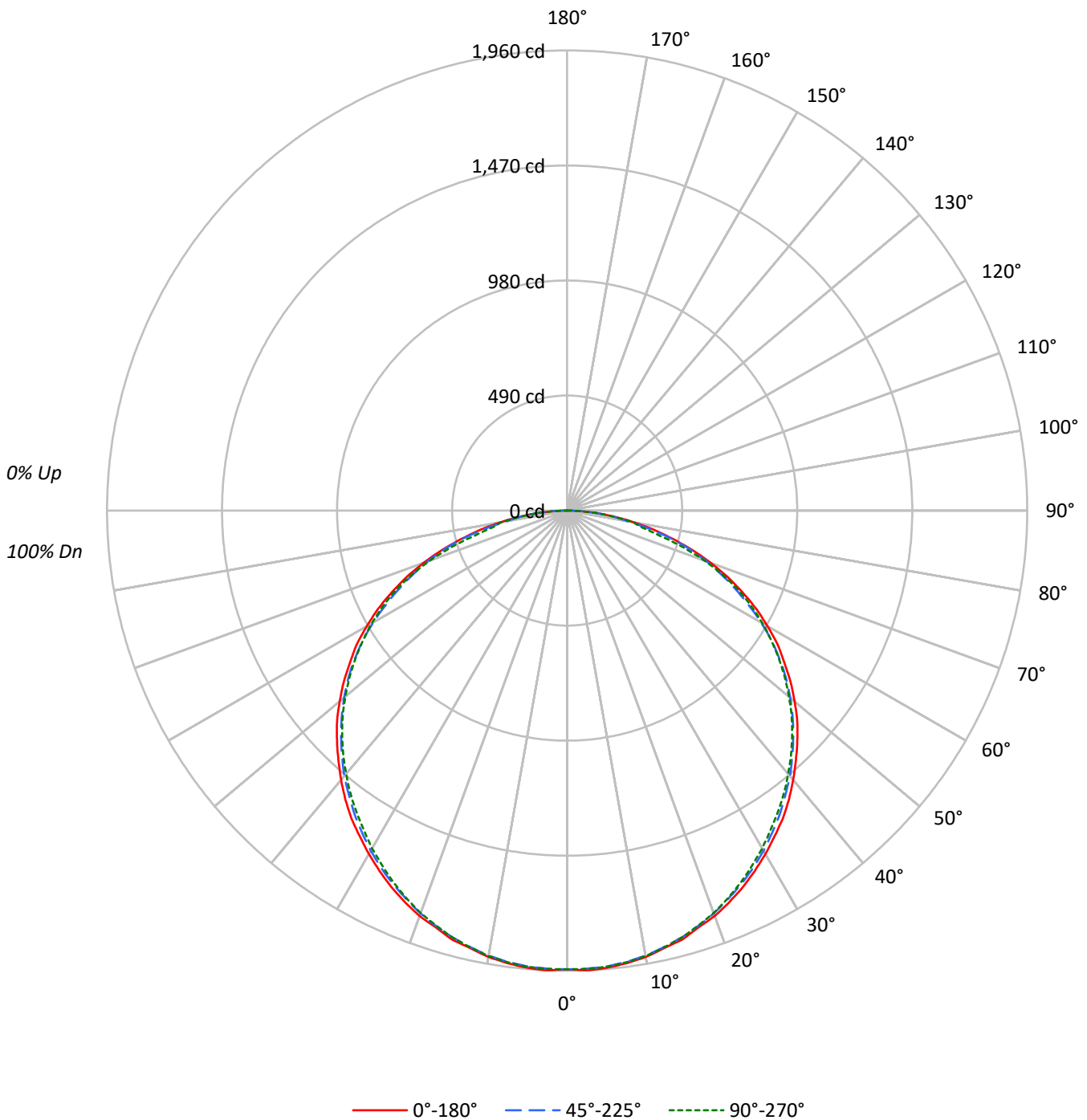
Lumens per Lamp: N/A  
Luminaire Lumens: 5967.1 lumens  
Efficiency: N/A  
Efficacy: 85.0 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.26 / 1.4  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')  
CIE Type: Direct

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°	2629	2629	2629
5°	2634	2620	2623
10°	2626	2605	2609
15°	2618	2586	2588
20°	2608	2565	2565
25°	2597	2543	2537
30°	2587	2522	2509
35°	2585	2501	2485
40°	2577	2483	2469
45°	2574	2462	2456
50°	2571	2443	2436
55°	2558	2412	2412
60°	2542	2351	2381
65°	2490	2259	2322
70°	2393	2168	2151
75°	2216	1985	1759
80°	1967	1547	1708
85°	1539	1224	1284



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	185.2	3.1
10°-20°	531.4	8.9
20°-30°	809.2	13.6
30°-40°	988.6	16.6
40°-50°	1054.0	17.7
50°-60°	991.2	16.6
60°-70°	793.7	13.3
70°-80°	470.9	7.9
80°-90°	142.9	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°	1525.8	25.6
0°-40°	2514.4	42.1
0°-60°	4559.6	76.4
0°-90°	5967.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5967.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1954	1954	1954	1954	1954	
5°	1955	1947	1949	1945	1950	186
15°	1892	1885	1883	1877	1883	533
25°	1770	1762	1755	1743	1748	816
35°	1601	1593	1579	1564	1566	1001
45°	1386	1378	1362	1352	1355	1070
55°	1129	1119	1106	1096	1102	1011
65°	824	812	790	799	808	814
75°	466	458	458	415	402	493
85°	128	120	127	127	131	144
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1954.0	1954.0	1954.0	1954.0	1954.0
2.5°	1960.0	1954.0	1953.0	1949.7	1954.0
5°	1954.8	1947.1	1948.7	1945.4	1950.5
7.5°	1944.4	1939.3	1938.5	1935.8	1940.1
10°	1930.7	1925.6	1924.7	1920.4	1926.4
12.5°	1908.4	1907.5	1904.9	1900.6	1905.7
15°	1892.0	1885.2	1882.6	1876.6	1882.6
17.5°	1861.1	1859.4	1855.9	1849.8	1854.1
20°	1837.9	1831.0	1825.8	1817.2	1824.0
22.5°	1805.2	1798.2	1790.6	1782.0	1788.0
25°	1769.9	1762.2	1755.2	1743.3	1748.4
27.5°	1730.4	1723.5	1715.7	1702.0	1705.4
30°	1689.1	1682.1	1672.7	1658.1	1661.5
32.5°	1644.3	1637.5	1626.2	1611.7	1612.5
35°	1601.3	1592.7	1578.9	1563.5	1566.0
37.5°	1551.5	1543.7	1526.5	1512.8	1517.1
40°	1498.1	1492.1	1476.6	1462.0	1464.6
42.5°	1442.2	1437.0	1419.0	1405.3	1411.2
45°	1386.3	1377.7	1362.3	1351.9	1355.3
47.5°	1329.5	1321.8	1302.9	1292.6	1296.9
50°	1265.0	1255.6	1241.0	1230.6	1233.3
52.5°	1199.7	1191.1	1175.6	1164.5	1168.8
55°	1129.2	1118.8	1105.9	1095.7	1101.6
57.5°	1063.8	1047.5	1033.7	1025.1	1032.0
60°	985.5	974.4	953.8	952.0	961.5
62.5°	908.1	893.6	872.1	878.0	885.8
65°	823.9	811.9	790.4	799.0	807.6
67.5°	740.4	723.2	710.3	716.4	718.9
70°	650.1	637.2	631.3	622.7	621.8
72.5°	558.2	548.7	547.8	523.8	514.3
75°	466.1	458.4	457.5	415.4	401.6
77.5°	376.7	374.1	356.1	322.5	322.5
80°	289.8	293.2	259.7	270.9	283.0
82.5°	203.8	204.7	200.4	200.4	201.3
85°	128.2	119.6	127.3	127.3	130.7
87.5°	51.6	55.9	58.5	61.9	62.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)