

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: P184395

Luminaire Tested: **ENW/ENC-24-4-LD1-67-40-CP250-UNV-EDC1**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P184395  
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-CP250-UNV-EDC1  
Description: FAIL-SAFE 2X4 ENCOUNTER W/ 0.250" THICK CLEAR POLY LENS  
Light Source: 4000K LEDS  
Ballast/Driver: -

**Summary**

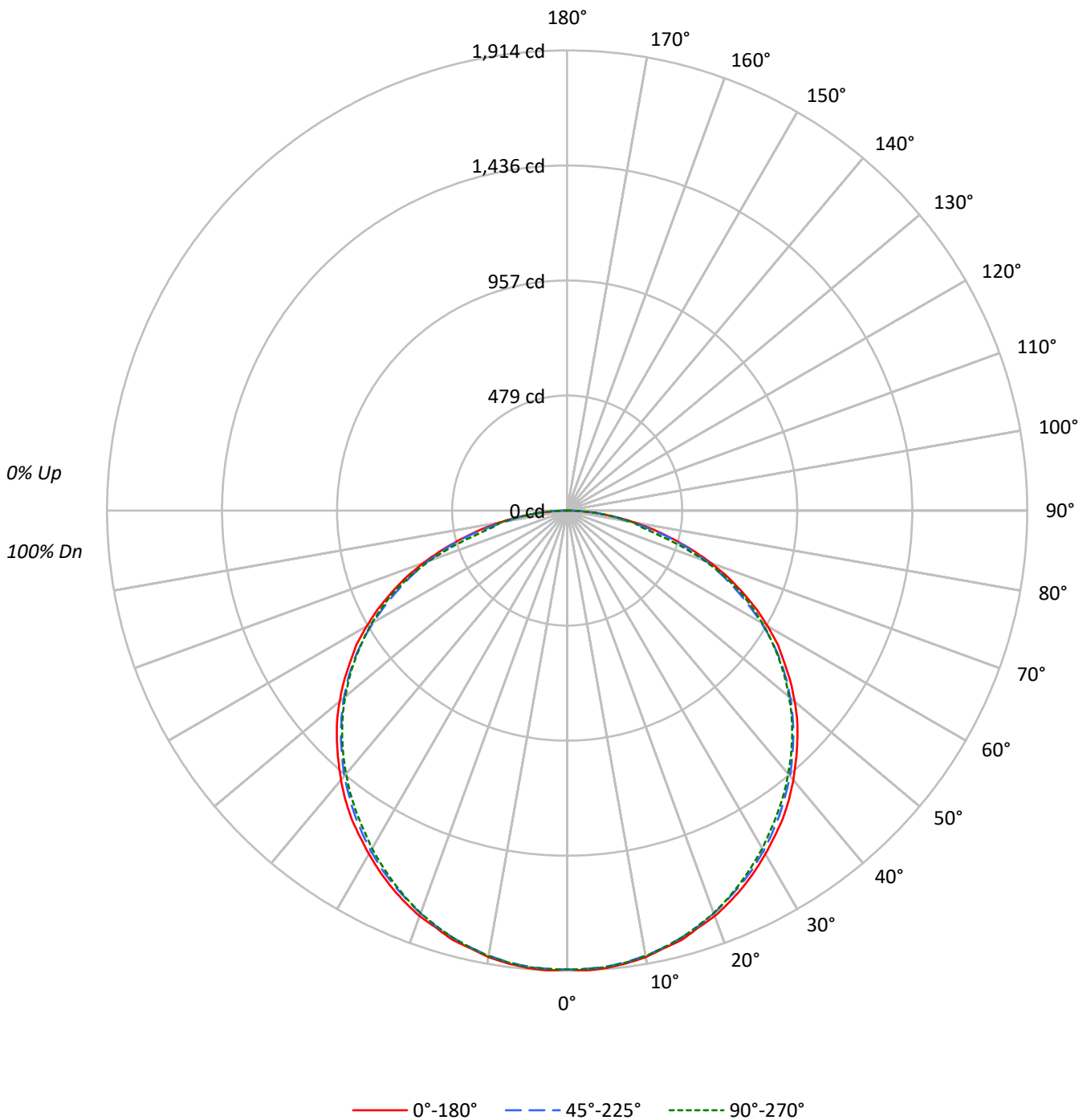
Lumens per Lamp: N/A  
Luminaire Lumens: 5828.3 lumens  
Efficiency: N/A  
Efficacy: 83.0 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.26 / 1.4  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')  
CIE Type: Direct

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°	2568	2568	2568
5°	2573	2559	2562
10°	2565	2545	2548
15°	2557	2525	2528
20°	2547	2505	2505
25°	2537	2484	2477
30°	2527	2463	2451
35°	2525	2442	2427
40°	2517	2425	2411
45°	2514	2404	2399
50°	2512	2386	2380
55°	2498	2356	2356
60°	2483	2296	2326
65°	2432	2207	2268
70°	2338	2117	2101
75°	2165	1939	1719
80°	1921	1511	1669
85°	1503	1195	1254



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	180.9	3.1
10°-20°	519.1	8.9
20°-30°	790.3	13.6
30°-40°	965.6	16.6
40°-50°	1029.5	17.7
50°-60°	968.2	16.6
60°-70°	775.3	13.3
70°-80°	459.9	7.9
80°-90°	139.5	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°	1490.3	25.6
0°-40°	2456.0	42.1
0°-60°	4453.6	76.4
0°-90°	5828.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5828.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1908	1908	1908	1908	1908	
5°	1909	1902	1903	1900	1905	181
15°	1848	1841	1839	1833	1839	521
25°	1729	1721	1714	1703	1708	797
35°	1564	1556	1542	1527	1530	978
45°	1354	1346	1331	1320	1324	1045
55°	1103	1093	1080	1070	1076	987
65°	805	793	772	780	789	795
75°	455	448	447	406	392	482
85°	125	117	124	124	128	140
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1908.5	1908.5	1908.5	1908.5	1908.5
2.5°	1914.4	1908.5	1907.6	1904.3	1908.5
5°	1909.3	1901.8	1903.4	1900.1	1905.1
7.5°	1899.2	1894.2	1893.4	1890.8	1895.0
10°	1885.8	1880.8	1879.9	1875.7	1881.6
12.5°	1864.0	1863.1	1860.6	1856.4	1861.4
15°	1848.0	1841.3	1838.8	1832.9	1838.8
17.5°	1817.8	1816.1	1812.7	1806.8	1811.0
20°	1795.1	1788.4	1783.3	1774.9	1781.6
22.5°	1763.2	1756.4	1748.9	1740.5	1746.4
25°	1728.7	1721.2	1714.4	1702.7	1707.7
27.5°	1690.1	1683.4	1675.8	1662.4	1665.7
30°	1649.8	1643.0	1633.8	1619.5	1622.9
32.5°	1606.1	1599.4	1588.4	1574.2	1575.0
35°	1564.1	1555.7	1542.2	1527.1	1529.6
37.5°	1515.4	1507.8	1491.0	1477.6	1481.8
40°	1463.3	1457.4	1442.3	1428.0	1430.5
42.5°	1408.7	1403.6	1386.0	1372.6	1378.4
45°	1354.1	1345.7	1330.6	1320.5	1323.8
47.5°	1298.6	1291.1	1272.6	1262.5	1266.7
50°	1235.6	1226.4	1212.1	1202.0	1204.6
52.5°	1171.8	1163.4	1148.3	1137.4	1141.6
55°	1102.9	1092.8	1080.2	1070.2	1076.0
57.5°	1039.1	1023.1	1009.7	1001.3	1008.0
60°	962.6	951.7	931.6	929.9	939.1
62.5°	887.0	872.8	851.8	857.6	865.2
65°	804.7	793.0	772.0	780.4	788.8
67.5°	723.2	706.4	693.8	699.7	702.2
70°	635.0	622.4	616.6	608.2	607.3
72.5°	545.2	535.9	535.1	511.6	502.3
75°	455.3	447.7	446.9	405.7	392.3
77.5°	367.9	365.4	347.8	315.0	315.0
80°	283.1	286.4	253.7	264.6	276.4
82.5°	199.1	199.9	195.7	195.7	196.6
85°	125.2	116.8	124.3	124.3	127.7
87.5°	50.4	54.6	57.1	60.5	61.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)