

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: P184396

Luminaire Tested: **ENW/ENC-24-4-LD1-70-40-CA125-UNV-EDC1**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P184396  
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-LD1-70-40-CA125-UNV-EDC1  
Description: FAIL-SAFE 2X4 ENCOUNTER W/ 0.125" THICK CLEAR ACRYLIC LENS  
Light Source: 4000K LEDS  
Ballast/Driver: -

**Summary**

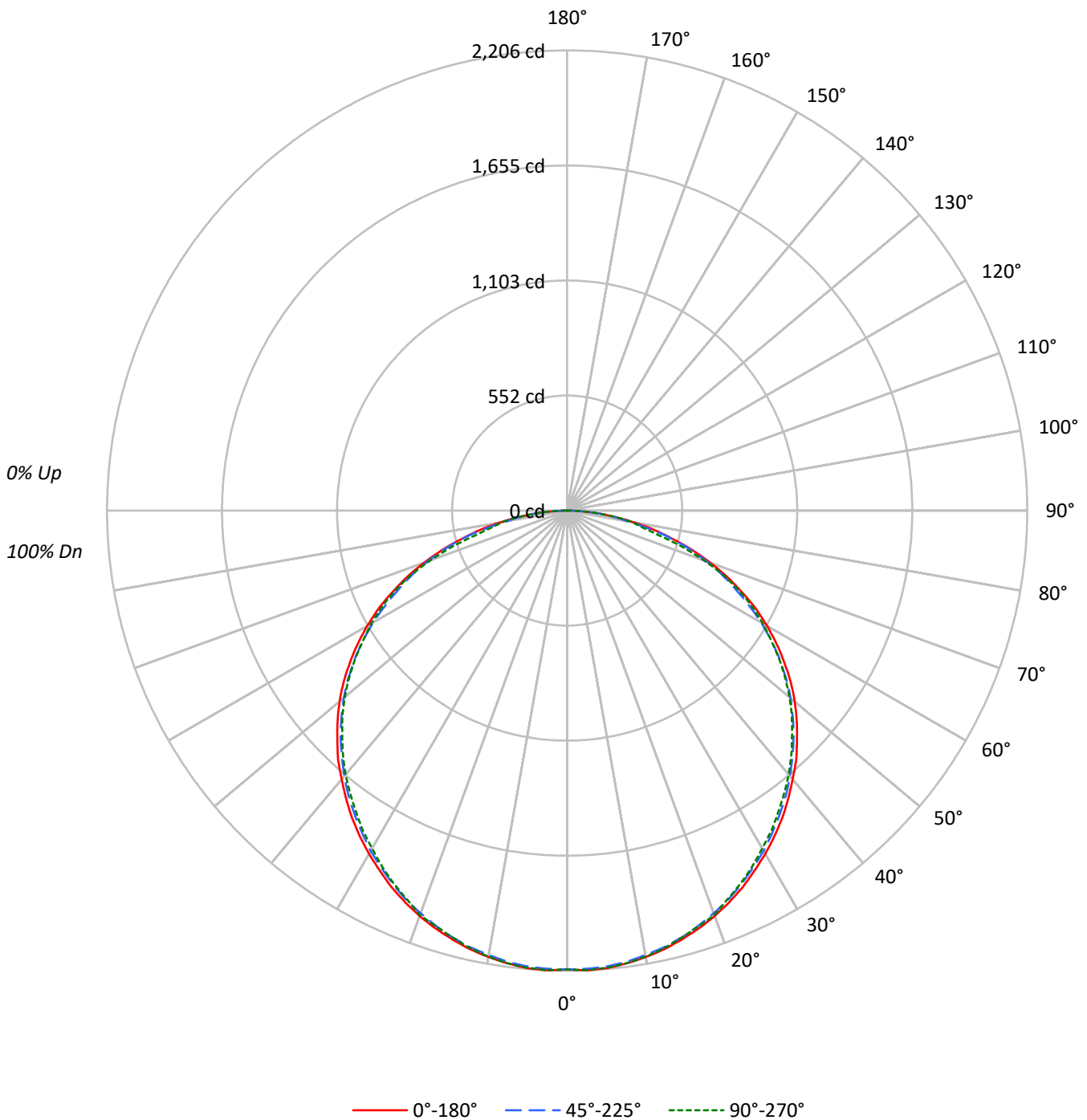
Lumens per Lamp: N/A  
Luminaire Lumens: 6718.5 lumens  
Efficiency: N/A  
Efficacy: 89.7 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.4  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 74.9  
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	74	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°	2960	2960	2960
5°	2967	2949	2958
10°	2956	2928	2940
15°	2944	2910	2912
20°	2934	2886	2902
25°	2923	2863	2859
30°	2910	2840	2824
35°	2903	2815	2800
40°	2893	2795	2785
45°	2893	2775	2763
50°	2895	2753	2750
55°	2880	2712	2717
60°	2855	2648	2684
65°	2791	2546	2619
70°	2685	2445	2409
75°	2484	2244	1975
80°	2203	1732	1900
85°	1701	1352	1420



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	208.6	3.1
10°-20°	598.4	8.9
20°-30°	911.1	13.6
30°-40°	1113.0	16.6
40°-50°	1187.1	17.7
50°-60°	1116.1	16.6
60°-70°	893.8	13.3
70°-80°	530.1	7.9
80°-90°	160.4	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°	1718.0	25.6
0°-40°	2830.9	42.1
0°-60°	5134.1	76.4
0°-90°	6718.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6718.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2200	2200	2200	2200	2200	
5°	2202	2196	2193	2189	2200	209
15°	2128	2123	2119	2112	2119	601
25°	1992	1985	1976	1962	1971	918
35°	1799	1795	1777	1761	1764	1125
45°	1558	1553	1536	1522	1524	1203
55°	1271	1266	1244	1231	1241	1137
65°	924	913	890	899	911	914
75°	522	517	517	467	451	555
85°	142	136	141	144	144	160
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2199.6	2199.6	2199.6	2199.6	2199.6
2.5°	2206.1	2201.5	2198.7	2193.3	2205.2
5°	2201.5	2196.0	2193.3	2188.7	2199.6
7.5°	2189.5	2184.9	2182.2	2174.9	2188.7
10°	2173.0	2169.3	2162.8	2161.1	2171.1
12.5°	2153.6	2146.3	2144.4	2138.9	2149.0
15°	2127.9	2123.3	2118.7	2112.2	2118.7
17.5°	2100.3	2094.8	2088.4	2081.0	2090.2
20°	2068.1	2061.6	2054.3	2045.1	2063.5
22.5°	2031.3	2024.8	2018.5	2005.6	2013.9
25°	1991.8	1985.3	1976.1	1962.3	1970.6
27.5°	1945.8	1943.0	1930.1	1912.7	1922.8
30°	1899.8	1895.2	1884.1	1864.8	1870.3
32.5°	1850.0	1845.4	1830.8	1814.2	1820.7
35°	1798.6	1794.8	1777.4	1760.9	1764.5
37.5°	1740.6	1735.0	1722.2	1702.8	1708.4
40°	1681.7	1679.0	1662.4	1643.0	1652.2
42.5°	1624.6	1619.2	1598.9	1585.1	1590.7
45°	1558.5	1552.9	1535.5	1521.7	1524.4
47.5°	1493.1	1489.5	1467.4	1454.4	1460.9
50°	1424.1	1419.5	1398.4	1384.6	1391.9
52.5°	1351.5	1343.2	1322.9	1310.1	1317.4
55°	1271.4	1265.9	1243.8	1230.9	1241.1
57.5°	1191.4	1183.1	1161.0	1153.7	1160.1
60°	1106.7	1095.7	1074.5	1069.9	1083.7
62.5°	1020.3	1006.5	980.7	989.9	1000.9
65°	923.7	912.6	890.5	898.8	910.8
67.5°	829.8	816.0	804.1	806.8	814.2
70°	729.5	714.8	712.1	704.7	696.4
72.5°	628.3	613.6	615.5	594.3	578.7
75°	522.5	517.0	517.0	467.3	450.8
77.5°	425.9	423.2	402.0	359.7	365.3
80°	324.7	332.1	290.7	304.5	314.7
82.5°	228.1	235.5	223.5	227.3	228.1
85°	141.7	136.1	140.7	143.5	144.5
87.5°	55.2	62.5	63.5	68.1	71.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)