

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: P184397

Luminaire Tested: **ENW/ENC-24-4-LD1-70-40-CP125-UNV-EDC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P184397
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-CP125-UNV-EDC1
Description: FAIL-SAFE 2X4 ENCOUNTER W/ 0.125" THICK CLEAR POLY LENS
Light Source: 4000K LEDS
Ballast/Driver: -

Summary

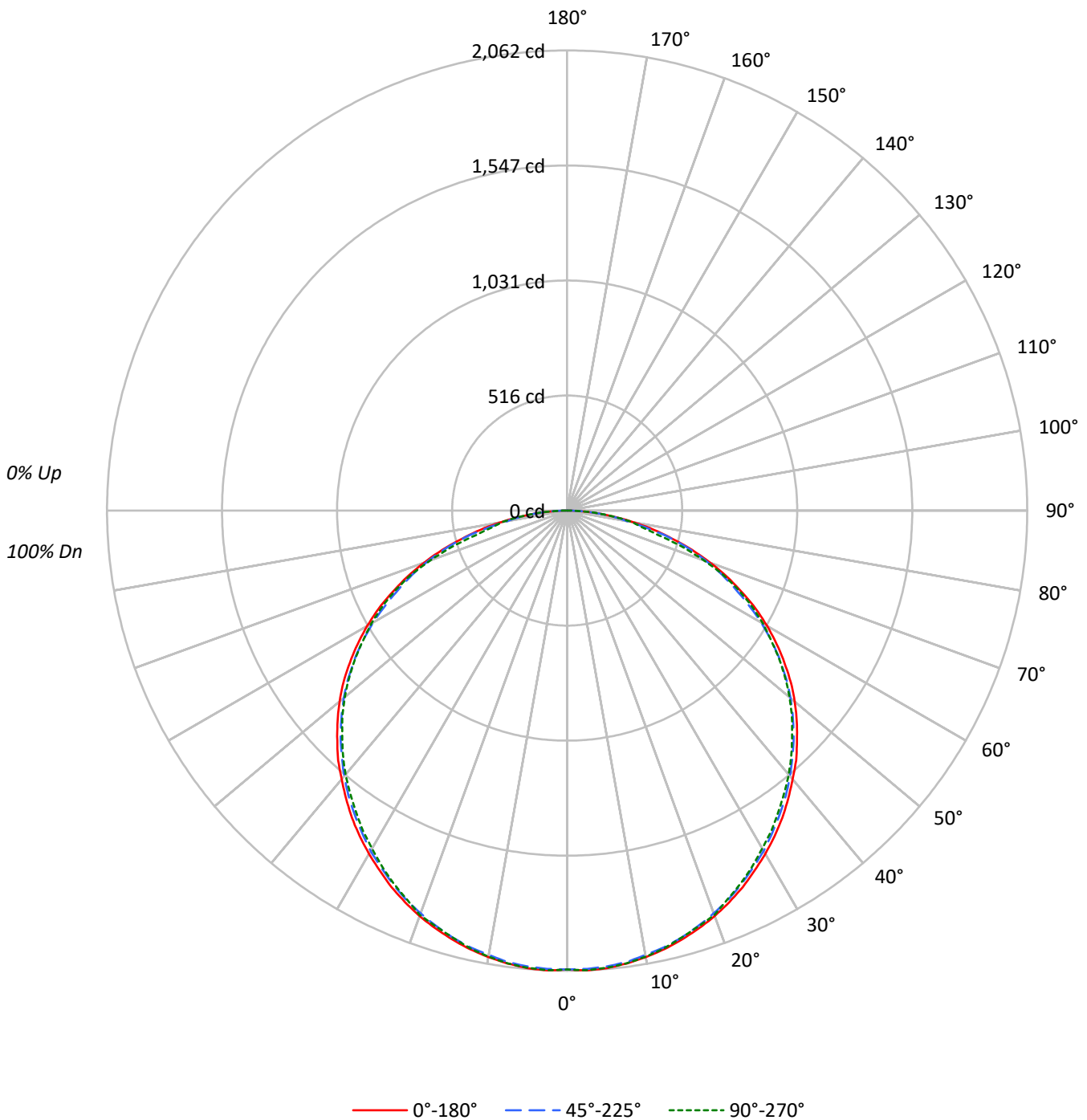
Lumens per Lamp: N/A
Luminaire Lumens: 6280.5 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 74.9
Input Voltage (V): NR
Input Current (A_{in}): 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°	2767	2767	2767
5°	2774	2756	2765
10°	2763	2737	2749
15°	2752	2720	2722
20°	2743	2698	2713
25°	2732	2676	2673
30°	2720	2655	2640
35°	2714	2631	2618
40°	2705	2613	2604
45°	2705	2594	2582
50°	2706	2574	2571
55°	2692	2535	2540
60°	2669	2476	2509
65°	2609	2380	2448
70°	2511	2286	2252
75°	2323	2097	1846
80°	2060	1618	1775
85°	1591	1265	1326



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.0	3.1
10°-20°	559.4	8.9
20°-30°	851.7	13.6
30°-40°	1040.4	16.6
40°-50°	1109.7	17.7
50°-60°	1043.4	16.6
60°-70°	835.6	13.3
70°-80°	495.5	7.9
80°-90°	150.0	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°	1606.0	25.6
0°-40°	2646.4	42.1
0°-60°	4799.4	76.4
0°-90°	6280.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6280.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2056	2056	2056	2056	2056	
5°	2058	2053	2050	2046	2056	196
15°	1989	1985	1981	1974	1981	562
25°	1862	1856	1847	1834	1842	858
35°	1681	1678	1662	1646	1650	1052
45°	1457	1452	1435	1422	1425	1125
55°	1188	1183	1163	1151	1160	1063
65°	864	853	832	840	851	854
75°	488	483	483	437	421	519
85°	132	127	132	134	135	149
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2056.2	2056.2	2056.2	2056.2	2056.2
2.5°	2062.3	2058.0	2055.4	2050.3	2061.5
5°	2058.0	2052.9	2050.3	2046.0	2056.2
7.5°	2046.8	2042.5	2040.0	2033.1	2046.0
10°	2031.4	2027.9	2021.8	2020.2	2029.6
12.5°	2013.2	2006.4	2004.6	1999.5	2008.9
15°	1989.2	1984.9	1980.6	1974.5	1980.6
17.5°	1963.4	1958.3	1952.2	1945.4	1954.0
20°	1933.3	1927.2	1920.4	1911.8	1929.0
22.5°	1898.9	1892.8	1886.9	1874.8	1882.6
25°	1861.9	1855.9	1847.3	1834.4	1842.2
27.5°	1818.9	1816.4	1804.3	1788.0	1797.4
30°	1775.9	1771.6	1761.3	1743.3	1748.4
32.5°	1729.4	1725.1	1711.4	1696.0	1702.0
35°	1681.3	1677.8	1661.5	1646.1	1649.5
37.5°	1627.1	1621.9	1609.9	1591.8	1597.0
40°	1572.1	1569.5	1554.0	1535.9	1544.5
42.5°	1518.7	1513.6	1494.7	1481.8	1487.0
45°	1456.9	1451.7	1435.4	1422.5	1425.0
47.5°	1395.8	1392.4	1371.7	1359.6	1365.7
50°	1331.3	1327.0	1307.2	1294.3	1301.2
52.5°	1263.4	1255.6	1236.7	1224.7	1231.5
55°	1188.5	1183.3	1162.7	1150.7	1160.2
57.5°	1113.7	1105.9	1085.3	1078.5	1084.4
60°	1034.6	1024.2	1004.5	1000.2	1013.1
62.5°	953.8	940.9	916.7	925.3	935.7
65°	863.5	853.1	832.5	840.2	851.4
67.5°	775.7	762.8	751.7	754.2	761.1
70°	682.0	668.2	665.7	658.7	651.0
72.5°	587.4	573.6	575.4	555.5	541.0
75°	488.5	483.3	483.3	436.9	421.4
77.5°	398.2	395.6	375.8	336.2	341.4
80°	303.6	310.4	271.7	284.6	294.1
82.5°	213.3	220.1	209.0	212.4	213.3
85°	132.5	127.3	131.6	134.1	135.0
87.5°	51.6	58.5	59.4	63.7	67.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)