

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: P184335

Luminaire Tested: **ENW/ENC-24-4-LD1-70-40-CA080-UNV-EDC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P184335
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-CA080-UNV-EDC1
Description: FAIL-SAFE 2X4 ENCOUNTER W/ 0.080" THICK CLEAR ACRYLIC LENS
Light Source: 4000K LEDS
Ballast/Driver: -

Summary

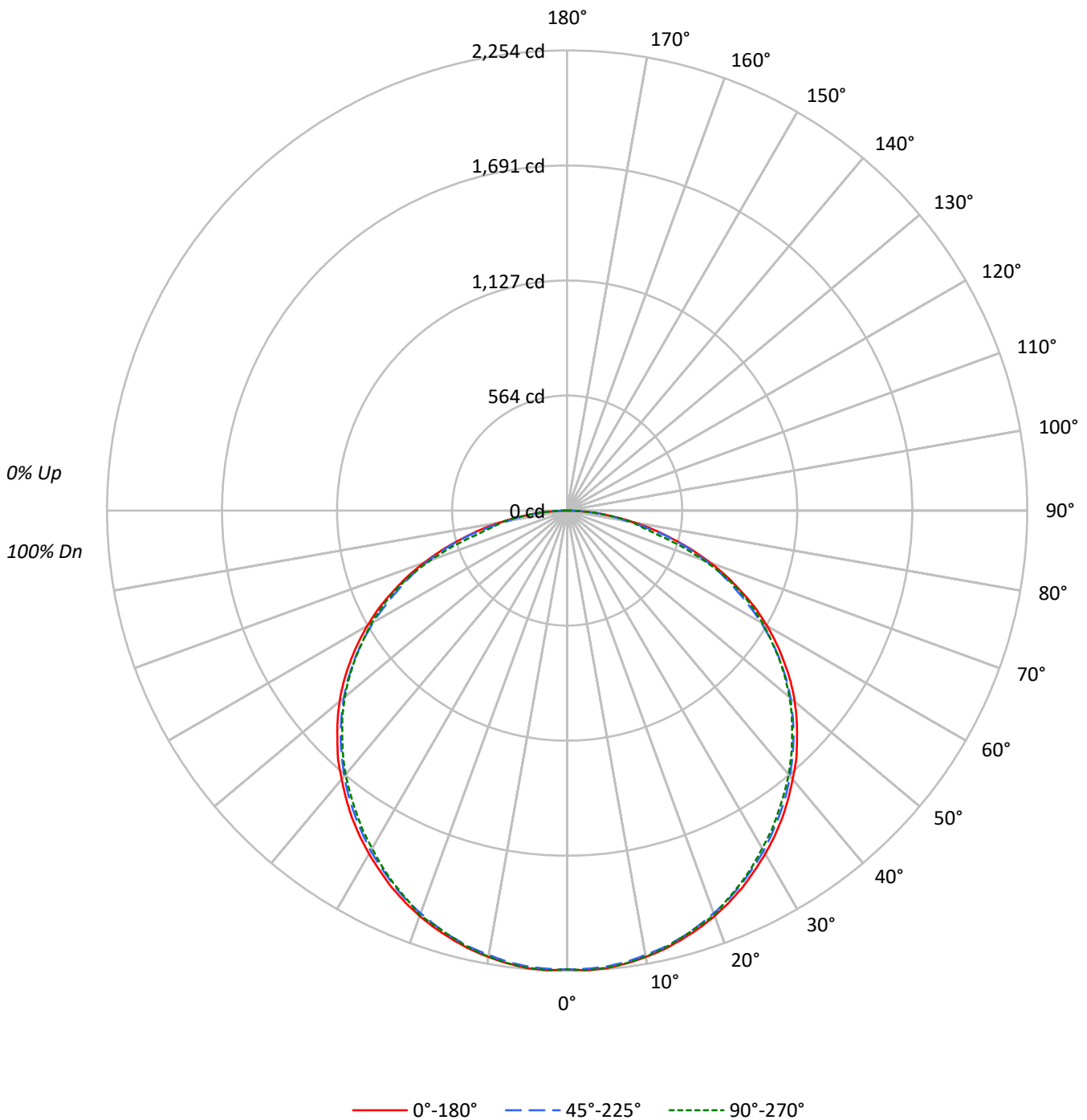
Lumens per Lamp: N/A
Luminaire Lumens: 6864.7 lumens
Efficiency: N/A
Efficacy: 91.7 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 4' x L: 2' x H: 0.1')
CIE Type: Direct

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°	3024	3024	3024
5°	3025	3013	3029
10°	3007	2991	3018
15°	2989	2973	2995
20°	2972	2949	2992
25°	2952	2925	2955
30°	2931	2902	2927
35°	2916	2876	2910
40°	2897	2856	2904
45°	2886	2835	2892
50°	2875	2813	2891
55°	2844	2771	2872
60°	2800	2706	2856
65°	2714	2601	2812
70°	2578	2498	2619
75°	2339	2293	2190
80°	2003	1769	2182
85°	1422	1382	1772



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.1	3.1
10°-20°	611.4	8.9
20°-30°	930.9	13.6
30°-40°	1137.2	16.6
40°-50°	1212.9	17.7
50°-60°	1140.4	16.6
60°-70°	913.3	13.3
70°-80°	541.6	7.9
80°-90°	163.9	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°	1755.4	25.6
0°-40°	2892.5	42.1
0°-60°	5245.9	76.4
0°-90°	6864.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6864.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2248	2248	2248	2248	2248	
5°	2249	2244	2241	2236	2248	214
15°	2174	2170	2165	2158	2165	614
25°	2035	2028	2019	2005	2014	938
35°	1838	1834	1816	1799	1803	1149
45°	1592	1587	1569	1555	1558	1229
55°	1299	1293	1271	1258	1268	1161
65°	944	932	910	918	931	934
75°	534	528	528	478	461	567
85°	145	139	144	147	148	163
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2247.5	2247.5	2247.5	2247.5	2247.5
2.5°	2254.1	2249.4	2246.6	2241.0	2253.2
5°	2249.4	2243.8	2241.0	2236.3	2247.5
7.5°	2237.2	2232.5	2229.7	2222.2	2236.3
10°	2220.3	2216.5	2209.9	2208.1	2218.4
12.5°	2200.5	2193.0	2191.1	2185.5	2195.8
15°	2174.2	2169.5	2164.8	2158.2	2164.8
17.5°	2146.0	2140.4	2133.8	2126.3	2135.7
20°	2113.1	2106.5	2099.0	2089.6	2108.4
22.5°	2075.5	2068.9	2062.4	2049.2	2057.7
25°	2035.1	2028.5	2019.1	2005.0	2013.5
27.5°	1988.1	1985.3	1972.1	1954.3	1964.6
30°	1941.1	1936.4	1925.1	1905.4	1911.0
32.5°	1890.3	1885.6	1870.6	1853.7	1860.3
35°	1837.7	1833.9	1816.1	1799.2	1802.9
37.5°	1778.5	1772.8	1759.7	1739.9	1745.6
40°	1718.3	1715.5	1698.6	1678.8	1688.2
42.5°	1660.0	1654.4	1633.7	1619.6	1625.3
45°	1592.4	1586.7	1568.9	1554.8	1557.6
47.5°	1525.6	1521.9	1499.3	1486.1	1492.7
50°	1455.1	1450.4	1428.8	1414.7	1422.2
52.5°	1380.9	1372.4	1351.7	1338.6	1346.1
55°	1299.1	1293.4	1270.9	1257.7	1268.1
57.5°	1217.3	1208.8	1186.3	1178.8	1185.3
60°	1130.8	1119.5	1097.9	1093.2	1107.3
62.5°	1042.5	1028.4	1002.0	1011.4	1022.7
65°	943.8	932.5	909.9	918.4	930.6
67.5°	847.9	833.8	821.6	824.4	831.9
70°	745.4	730.4	727.6	720.0	711.6
72.5°	642.0	627.0	628.9	607.2	591.3
75°	533.9	528.3	528.3	477.5	460.6
77.5°	435.2	432.4	410.8	367.5	373.2
80°	331.8	339.3	297.0	311.1	321.5
82.5°	233.1	240.6	228.4	232.2	233.1
85°	144.8	139.1	143.8	146.6	147.6
87.5°	56.4	63.9	64.9	69.6	73.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)