

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: P184388

Luminaire Tested: **ENW/ENC-24-4-LD1-54-40-CA125-UNV-EDC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P184388
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-LD1-54-40-CA125-UNV-EDC1
Description: FAIL-SAFE 2X4 ENCOUNTER W/ 0.125" THICK CLEAR ACRYLIC LENS
Light Source: 4000K LEDS
Ballast/Driver: -

Summary

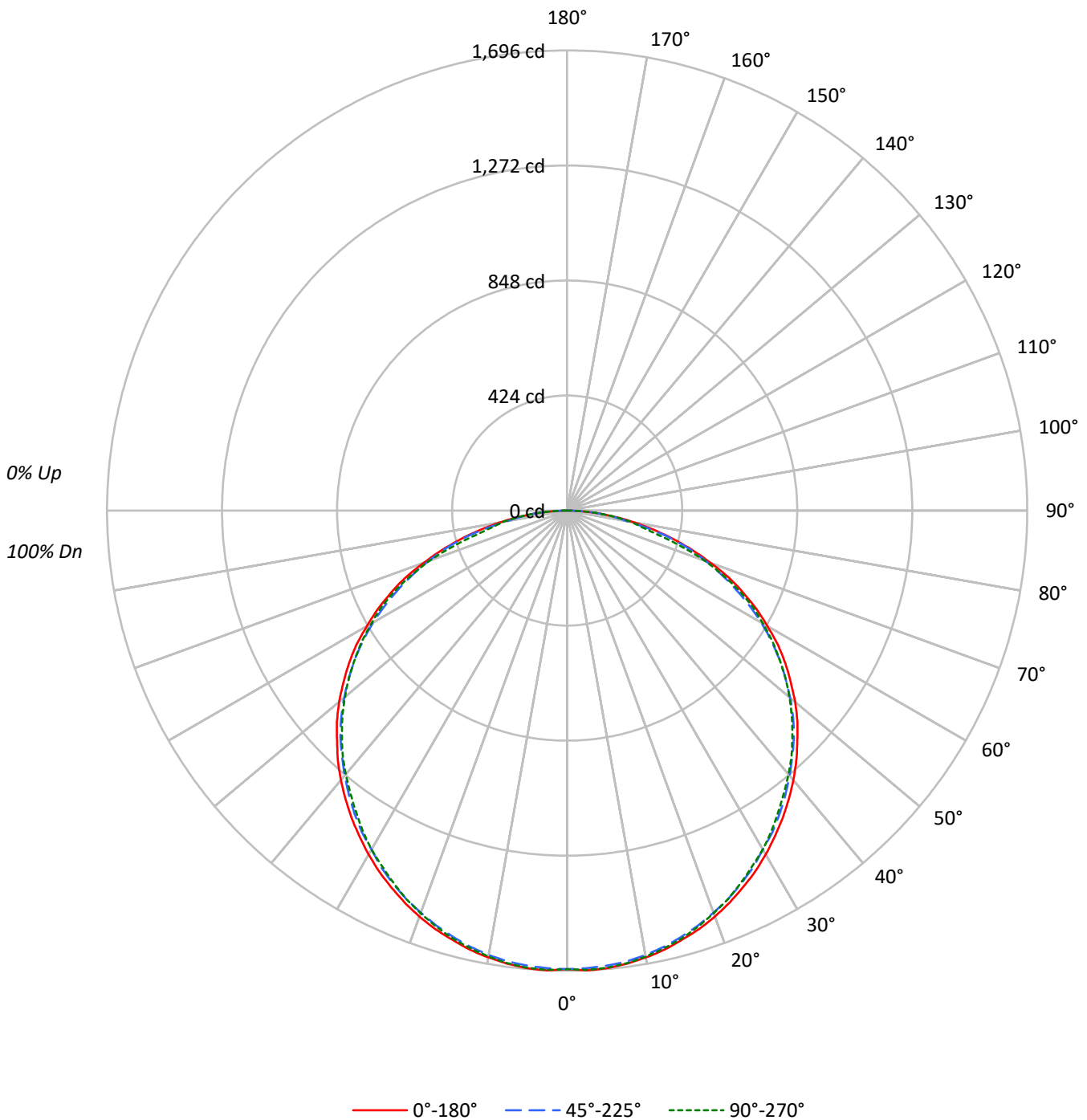
Lumens per Lamp: N/A
Luminaire Lumens: 5164.6 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.27 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 54.6
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	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°	2274	2274	2274
5°	2281	2263	2274
10°	2275	2251	2260
15°	2266	2234	2243
20°	2260	2215	2221
25°	2249	2198	2197
30°	2242	2175	2178
35°	2235	2162	2152
40°	2232	2144	2139
45°	2227	2136	2127
50°	2229	2112	2112
55°	2223	2082	2093
60°	2197	2036	2064
65°	2163	1959	2013
70°	2069	1870	1868
75°	1929	1725	1523
80°	1699	1327	1455
85°	1315	1061	1103



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.3	3.1
10°-20°	459.8	8.9
20°-30°	699.9	13.6
30°-40°	855.2	16.6
40°-50°	912.6	17.7
50°-60°	857.9	16.6
60°-70°	687.6	13.3
70°-80°	407.5	7.9
80°-90°	123.9	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°	1320.0	25.6
0°-40°	2175.1	42.1
0°-60°	3945.7	76.4
0°-90°	5164.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5164.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1690	1690	1690	1690	1690	
5°	1693	1688	1684	1682	1691	161
15°	1638	1630	1626	1623	1632	463
25°	1533	1523	1517	1508	1514	707
35°	1385	1376	1365	1352	1356	867
45°	1200	1194	1182	1168	1174	927
55°	982	970	955	948	956	876
65°	716	700	685	692	700	707
75°	406	398	398	360	348	428
85°	110	105	110	110	112	124
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1690.0	1690.0	1690.0	1690.0	1690.0
2.5°	1696.5	1689.0	1688.2	1685.4	1694.6
5°	1692.8	1688.2	1683.6	1681.7	1690.9
7.5°	1684.4	1679.8	1676.2	1673.5	1682.7
10°	1672.5	1664.3	1663.3	1661.4	1668.9
12.5°	1657.8	1649.5	1646.8	1644.0	1652.2
15°	1637.6	1630.2	1626.5	1622.9	1632.1
17.5°	1617.3	1607.2	1603.5	1599.9	1607.2
20°	1592.4	1582.4	1576.9	1571.3	1579.6
22.5°	1564.0	1553.9	1549.3	1540.1	1549.3
25°	1532.6	1523.4	1517.1	1507.9	1514.2
27.5°	1500.4	1489.5	1483.0	1471.1	1477.4
30°	1463.6	1458.2	1442.5	1433.3	1442.5
32.5°	1424.1	1414.9	1406.7	1395.6	1401.1
35°	1384.6	1376.2	1365.3	1352.4	1356.1
37.5°	1341.3	1334.0	1321.0	1309.1	1312.8
40°	1297.2	1288.9	1275.1	1264.1	1268.7
42.5°	1250.3	1242.0	1228.2	1219.0	1224.5
45°	1199.7	1194.1	1182.2	1167.5	1173.9
47.5°	1150.9	1145.4	1129.7	1117.8	1123.3
50°	1096.6	1090.2	1072.7	1064.4	1069.0
52.5°	1038.7	1028.5	1013.8	1008.3	1013.8
55°	981.6	969.7	954.9	948.5	955.9
57.5°	920.9	908.9	891.5	886.9	896.1
60°	851.9	842.7	826.1	824.3	833.5
62.5°	787.5	773.7	756.2	759.9	771.9
65°	715.7	700.1	685.4	691.8	700.1
67.5°	644.9	625.6	615.5	621.0	621.9
70°	562.1	552.0	544.6	540.9	540.0
72.5°	483.0	474.7	474.7	449.9	443.4
75°	405.7	398.3	397.5	359.7	347.7
77.5°	328.5	323.9	308.2	277.9	277.9
80°	250.3	255.7	222.7	233.7	241.1
82.5°	176.7	181.3	172.1	173.9	176.7
85°	109.5	104.9	110.4	110.4	112.3
87.5°	44.1	48.7	50.6	53.3	55.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)