

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: P184333

Luminaire Tested: **ENW/ENC-24-4-LD1-54-40-CA080-UNV-EDC1**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P184333  
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-CA080-UNV-EDC1  
Description: FAIL-SAFE 2X4 ENCOUNTER W/ 0.080" THICK CLEAR ACRYLIC LENS  
Light Source: 4000K LEDS  
Ballast/Driver: -

**Summary**

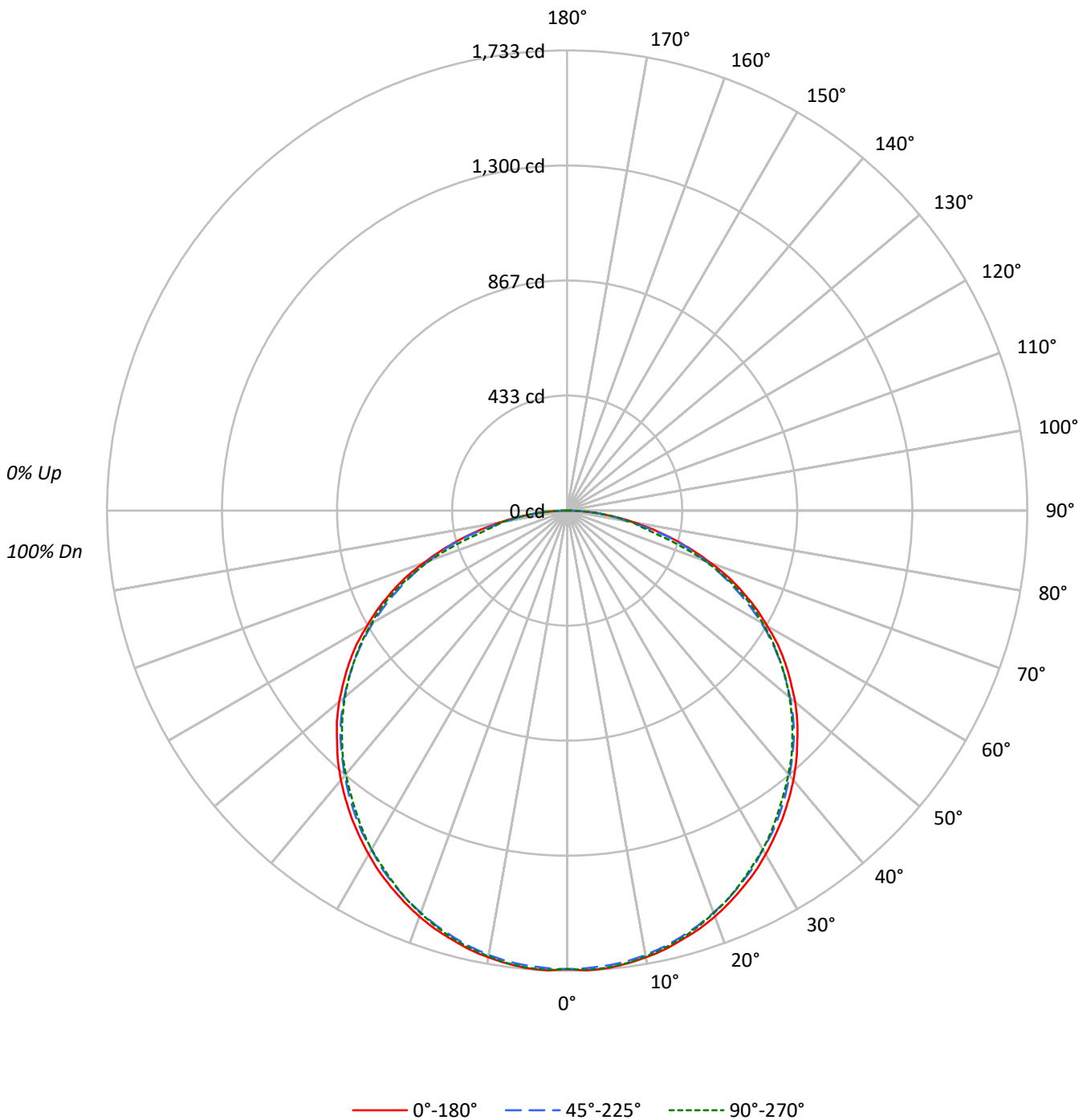
Lumens per Lamp: N/A  
Luminaire Lumens: 5277.0 lumens  
Efficiency: N/A  
Efficacy: 96.6 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.27 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 4' x L: 2' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 54.6  
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°	2323	2323	2323
5°	2326	2313	2328
10°	2314	2300	2319
15°	2300	2283	2307
20°	2288	2263	2290
25°	2272	2246	2270
30°	2258	2222	2257
35°	2245	2209	2237
40°	2234	2191	2230
45°	2221	2183	2227
50°	2214	2158	2220
55°	2196	2128	2212
60°	2156	2080	2197
65°	2103	2002	2161
70°	1986	1911	2031
75°	1816	1762	1689
80°	1544	1355	1671
85°	1099	1084	1377



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	163.8	3.1
10°-20°	469.8	8.9
20°-30°	715.1	13.6
30°-40°	873.8	16.6
40°-50°	932.4	17.7
50°-60°	876.6	16.6
60°-70°	702.5	13.3
70°-80°	416.3	7.9
80°-90°	126.6	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°	1348.7	25.6
0°-40°	2222.5	42.1
0°-60°	4031.5	76.4
0°-90°	5277.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5277.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1727	1727	1727	1727	1727	
5°	1730	1725	1720	1718	1728	164
15°	1673	1666	1662	1658	1668	473
25°	1566	1557	1550	1541	1547	722
35°	1415	1406	1395	1382	1386	885
45°	1226	1220	1208	1193	1199	947
55°	1003	991	976	969	977	895
65°	731	715	700	707	715	722
75°	414	407	406	368	355	437
85°	112	107	113	113	115	127
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1726.8	1726.8	1726.8	1726.8	1726.8
2.5°	1733.4	1725.8	1724.9	1722.1	1731.5
5°	1729.6	1724.9	1720.2	1718.3	1727.7
7.5°	1721.1	1716.4	1712.7	1709.9	1719.3
10°	1708.9	1700.5	1699.5	1697.6	1705.2
12.5°	1693.9	1685.4	1682.6	1679.8	1688.2
15°	1673.2	1665.7	1661.9	1658.2	1667.6
17.5°	1652.5	1642.2	1638.4	1634.7	1642.2
20°	1627.1	1616.8	1611.2	1605.5	1614.0
22.5°	1598.0	1587.7	1583.0	1573.6	1583.0
25°	1566.0	1556.6	1550.1	1540.7	1547.2
27.5°	1533.1	1521.9	1515.3	1503.1	1509.6
30°	1495.5	1489.9	1473.9	1464.5	1473.9
32.5°	1455.1	1445.7	1437.3	1426.0	1431.6
35°	1414.7	1406.2	1395.0	1381.8	1385.6
37.5°	1370.5	1363.0	1349.8	1337.6	1341.4
40°	1325.4	1316.9	1302.8	1291.6	1296.3
42.5°	1277.5	1269.0	1254.9	1245.5	1251.1
45°	1225.8	1220.1	1207.9	1192.9	1199.4
47.5°	1175.9	1170.3	1154.3	1142.1	1147.7
50°	1120.5	1113.9	1096.0	1087.6	1092.3
52.5°	1061.3	1050.9	1035.9	1030.2	1035.9
55°	1003.0	990.8	975.7	969.1	976.7
57.5°	940.9	928.7	910.9	906.2	915.6
60°	870.4	861.0	844.1	842.2	851.6
62.5°	804.6	790.5	772.7	776.4	788.7
65°	731.3	715.3	700.3	706.9	715.3
67.5°	658.9	639.2	628.9	634.5	635.4
70°	574.3	564.0	556.5	552.7	551.8
72.5°	493.5	485.0	485.0	459.7	453.1
75°	414.5	407.0	406.1	367.5	355.3
77.5°	335.6	330.9	314.9	283.9	283.9
80°	255.7	261.3	227.5	238.8	246.3
82.5°	180.5	185.2	175.8	177.7	180.5
85°	111.9	107.2	112.8	112.8	114.7
87.5°	45.1	49.8	51.7	54.5	56.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)