

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: P184384

Luminaire Tested: **ENW/ENC-24-4-LD1-45-40-CA125-UNV-EDC1**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P184384  
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-LD1-45-40-CA125-UNV-EDC1  
Description: FAIL-SAFE 2X4 ENCOUNTER W/ 0.125" THICK CLEAR ACRYLIC LENS  
Light Source: 4000K LEDS  
Ballast/Driver: -

**Summary**

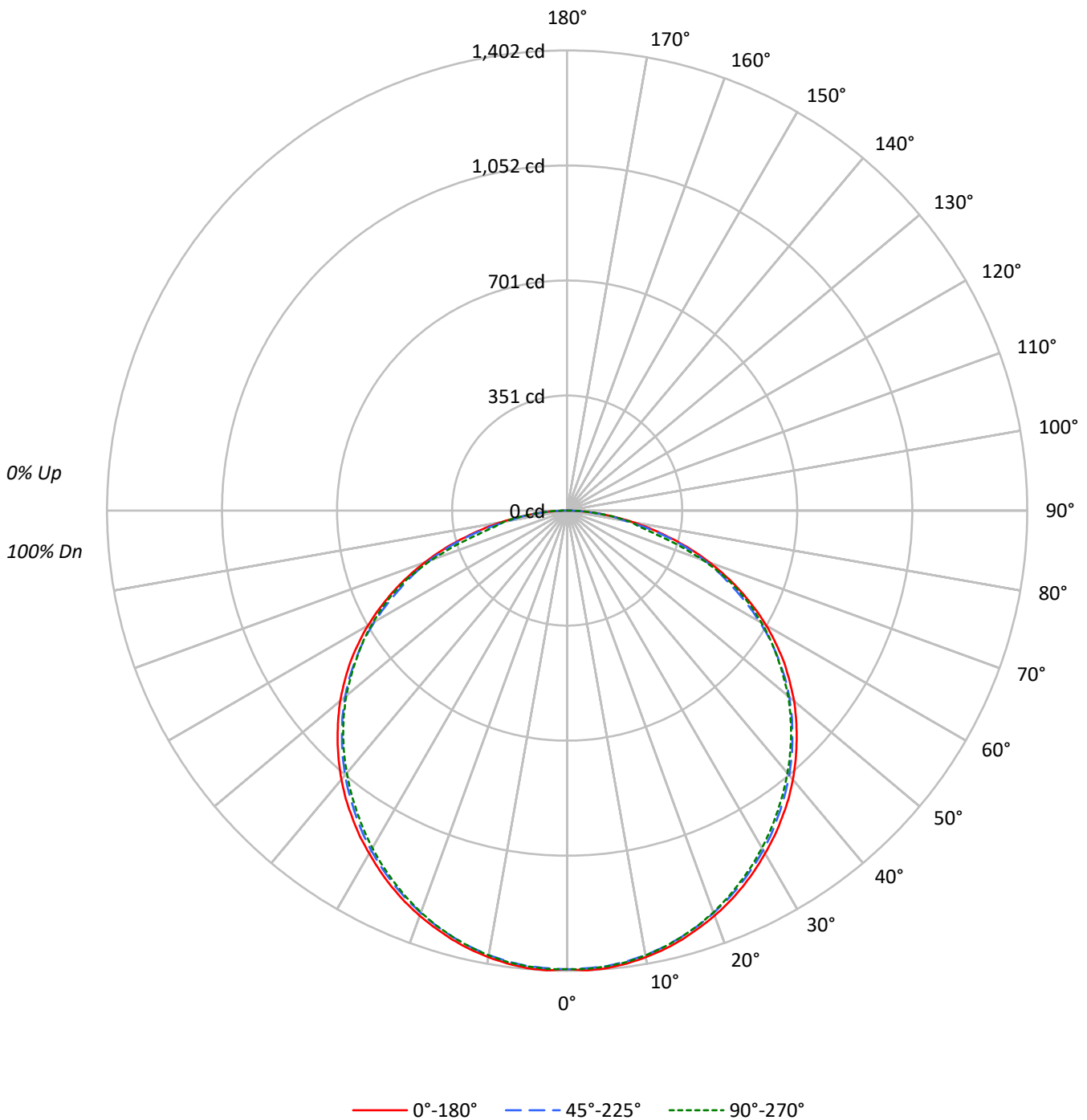
Lumens per Lamp: N/A  
Luminaire Lumens: 4248.7 lumens  
Efficiency: N/A  
Efficacy: 90.8 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.26 / 1.4  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 46.8  
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	88	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	61	55	51	48
5	75	62	52	45	73	60	52	45	58	51	45	56	49	44	54	48	44	42
6	69	55	46	40	67	54	46	39	52	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
10	52	39	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1880	1880	1880
5°	1886	1873	1874
10°	1880	1862	1864
15°	1872	1847	1849
20°	1864	1832	1832
25°	1856	1817	1811
30°	1847	1802	1792
35°	1843	1783	1774
40°	1841	1770	1760
45°	1836	1754	1749
50°	1834	1739	1736
55°	1827	1711	1712
60°	1808	1669	1693
65°	1768	1604	1656
70°	1697	1538	1521
75°	1571	1401	1229
80°	1380	1074	1172
85°	1072	840	867



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	132.5	3.1
10°-20°	380.0	8.9
20°-30°	578.3	13.6
30°-40°	705.8	16.6
40°-50°	751.6	17.7
50°-60°	705.4	16.6
60°-70°	564.1	13.3
70°-80°	332.1	7.8
80°-90°	99.0	2.3
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°	1090.8	25.7
0°-40°	1796.6	42.3
0°-60°	3253.6	76.6
0°-90°	4248.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4248.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1398	1398	1398	1398	1398	
5°	1399	1395	1393	1391	1394	133
15°	1353	1348	1345	1342	1345	382
25°	1265	1260	1254	1247	1248	583
35°	1142	1136	1126	1116	1118	715
45°	989	984	971	963	965	763
55°	807	798	785	779	782	720
65°	585	576	561	570	576	578
75°	330	324	323	291	281	350
85°	89	83	87	87	88	101
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1397.5	1397.5	1397.5	1397.5	1397.5
2.5°	1402.1	1396.5	1395.6	1394.6	1397.5
5°	1399.2	1394.6	1392.9	1391.0	1393.8
7.5°	1391.9	1387.3	1385.4	1384.6	1387.3
10°	1381.8	1376.2	1375.4	1373.5	1376.2
12.5°	1368.9	1364.3	1361.6	1359.7	1362.4
15°	1353.2	1347.8	1345.0	1342.3	1345.0
17.5°	1334.0	1329.4	1326.6	1323.9	1325.6
20°	1313.7	1308.2	1304.5	1299.0	1302.6
22.5°	1290.7	1285.2	1280.6	1274.2	1276.9
25°	1265.0	1259.5	1253.9	1246.6	1248.4
27.5°	1236.5	1231.9	1225.4	1217.1	1219.0
30°	1206.1	1202.4	1195.1	1185.9	1186.8
32.5°	1175.7	1171.1	1161.9	1151.8	1153.7
35°	1141.7	1136.2	1126.1	1115.9	1117.8
37.5°	1107.7	1100.3	1090.2	1079.1	1081.9
40°	1069.9	1065.3	1052.5	1043.3	1044.2
42.5°	1030.4	1025.8	1012.9	1004.6	1005.5
45°	989.0	984.4	970.6	963.2	965.1
47.5°	946.7	942.1	928.3	920.9	922.7
50°	902.5	897.0	883.2	875.8	878.6
52.5°	854.7	849.1	836.3	829.8	830.7
55°	806.8	798.5	784.7	779.2	782.0
57.5°	754.4	747.0	733.2	728.6	735.1
60°	701.0	691.8	677.1	677.1	683.5
62.5°	644.0	634.8	619.1	624.7	632.0
65°	585.1	575.9	561.2	569.5	575.9
67.5°	523.5	514.3	505.1	509.7	513.3
70°	460.9	450.8	448.0	443.4	439.7
72.5°	397.5	387.3	387.3	370.7	359.7
75°	330.3	323.9	322.9	290.7	280.6
77.5°	266.8	265.9	251.1	224.5	224.5
80°	203.3	207.9	180.3	188.6	194.1
82.5°	144.5	145.3	138.9	138.9	140.7
85°	89.3	82.8	87.4	87.4	88.3
87.5°	34.1	37.7	38.7	40.5	42.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)