

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: P184387

Luminaire Tested: **ENW/ENC-24-4-LD1-45-40-CP250-UNV-EDC1**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P184387  
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-CP250-UNV-EDC1  
Description: FAIL-SAFE 2X4 ENCOUNTER W/ 0.250" THICK CLEAR POLY LENS  
Light Source: 4000K LEDS  
Ballast/Driver: -

**Summary**

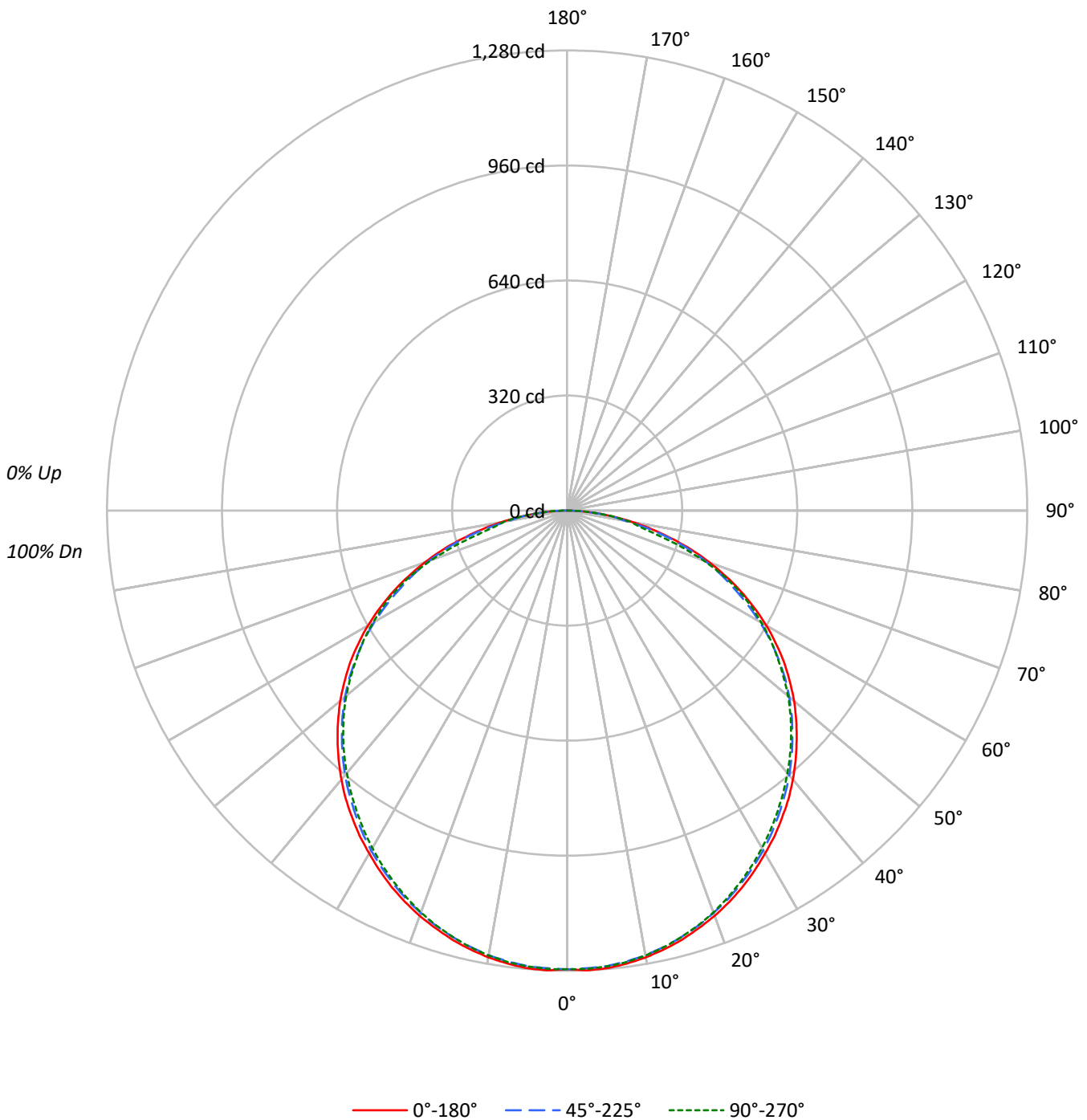
Lumens per Lamp: N/A  
Luminaire Lumens: 3879.4 lumens  
Efficiency: N/A  
Efficacy: 82.9 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.26 / 1.4  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')  
CIE Type: Direct

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	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°	1717	1717	1717
5°	1722	1710	1711
10°	1716	1700	1702
15°	1710	1687	1688
20°	1702	1673	1673
25°	1695	1659	1654
30°	1687	1645	1636
35°	1683	1628	1620
40°	1681	1616	1607
45°	1676	1601	1597
50°	1675	1588	1585
55°	1669	1562	1563
60°	1651	1524	1546
65°	1614	1465	1512
70°	1549	1405	1389
75°	1434	1279	1122
80°	1260	980	1070
85°	979	767	792



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	121.0	3.1
10°-20°	347.0	8.9
20°-30°	528.0	13.6
30°-40°	644.5	16.6
40°-50°	686.3	17.7
50°-60°	644.1	16.6
60°-70°	515.1	13.3
70°-80°	303.2	7.8
80°-90°	90.3	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°	996.0	25.7
0°-40°	1640.4	42.3
0°-60°	2970.8	76.6
0°-90°	3879.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3879.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1276	1276	1276	1276	1276	
5°	1278	1273	1272	1270	1273	121
15°	1236	1231	1228	1226	1228	349
25°	1155	1150	1145	1138	1140	532
35°	1042	1037	1028	1019	1021	653
45°	903	899	886	880	881	697
55°	737	729	716	712	714	657
65°	534	526	512	520	526	527
75°	302	296	295	265	256	319
85°	82	76	80	80	81	92
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1276.0	1276.0	1276.0	1276.0	1276.0
2.5°	1280.2	1275.1	1274.3	1273.4	1276.0
5°	1277.6	1273.4	1271.8	1270.1	1272.6
7.5°	1270.9	1266.7	1265.0	1264.2	1266.7
10°	1261.7	1256.6	1255.8	1254.1	1256.6
12.5°	1249.9	1245.7	1243.2	1241.5	1244.0
15°	1235.6	1230.6	1228.1	1225.6	1228.1
17.5°	1218.0	1213.8	1211.3	1208.8	1210.4
20°	1199.5	1194.5	1191.1	1186.1	1189.4
22.5°	1178.5	1173.5	1169.3	1163.4	1165.9
25°	1155.0	1150.0	1144.9	1138.2	1139.9
27.5°	1129.0	1124.8	1118.9	1111.3	1113.0
30°	1101.2	1097.9	1091.2	1082.8	1083.6
32.5°	1073.5	1069.3	1060.9	1051.7	1053.4
35°	1042.4	1037.4	1028.2	1018.9	1020.6
37.5°	1011.4	1004.6	995.4	985.3	987.8
40°	976.9	972.7	961.0	952.6	953.4
42.5°	940.8	936.6	924.8	917.3	918.1
45°	903.0	898.8	886.2	879.5	881.2
47.5°	864.4	860.2	847.6	840.8	842.5
50°	824.0	819.0	806.4	799.7	802.2
52.5°	780.4	775.3	763.6	757.7	758.5
55°	736.7	729.1	716.5	711.5	714.0
57.5°	688.8	682.1	669.5	665.3	671.2
60°	640.1	631.7	618.2	618.2	624.1
62.5°	588.0	579.6	565.3	570.4	577.1
65°	534.2	525.8	512.4	520.0	525.8
67.5°	478.0	469.6	461.2	465.4	468.7
70°	420.8	411.6	409.1	404.9	401.5
72.5°	362.9	353.6	353.6	338.5	328.4
75°	301.6	295.7	294.8	265.4	256.2
77.5°	243.6	242.8	229.3	205.0	205.0
80°	185.6	189.8	164.6	172.2	177.2
82.5°	131.9	132.7	126.8	126.8	128.5
85°	81.5	75.6	79.8	79.8	80.6
87.5°	31.1	34.4	35.3	37.0	38.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)