

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: P184389

Luminaire Tested: **ENW/ENC-24-4-LD1-54-40-CP125-UNV-EDC1**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P184389  
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-CP125-UNV-EDC1  
Description: FAIL-SAFE 2X4 ENCOUNTER W/ 0.125" THICK CLEAR POLY LENS  
Light Source: 4000K LEDS  
Ballast/Driver: -

**Summary**

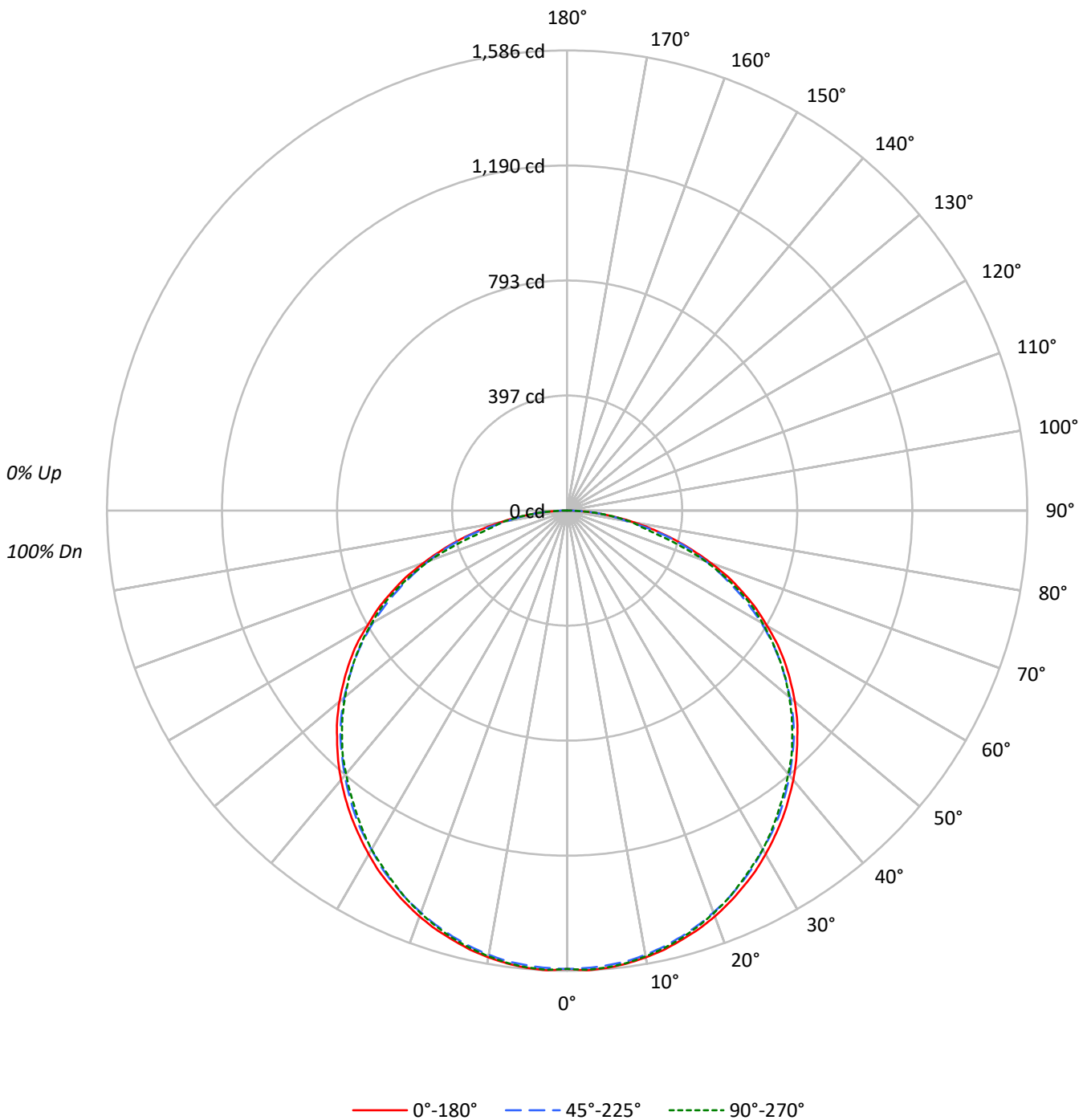
Lumens per Lamp: N/A  
Luminaire Lumens: 4827.9 lumens  
Efficiency: N/A  
Efficacy: 88.4 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.27 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 54.6  
Input Voltage (V): NR  
Input Current (A<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°	2126	2126	2126
5°	2133	2116	2126
10°	2127	2105	2113
15°	2118	2088	2097
20°	2112	2071	2076
25°	2102	2055	2054
30°	2095	2033	2036
35°	2089	2021	2012
40°	2086	2004	1999
45°	2082	1997	1989
50°	2084	1974	1974
55°	2078	1947	1956
60°	2054	1903	1929
65°	2022	1832	1882
70°	1934	1748	1746
75°	1803	1612	1424
80°	1587	1240	1360
85°	1229	992	1030



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	149.8	3.1
10°-20°	429.8	8.9
20°-30°	654.3	13.6
30°-40°	799.4	16.6
40°-50°	853.1	17.7
50°-60°	802.0	16.6
60°-70°	642.7	13.3
70°-80°	380.9	7.9
80°-90°	115.8	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°	1233.9	25.6
0°-40°	2033.3	42.1
0°-60°	3688.4	76.4
0°-90°	4827.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4827.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1580	1580	1580	1580	1580	
5°	1582	1578	1574	1572	1581	150
15°	1531	1524	1520	1517	1526	433
25°	1433	1424	1418	1410	1416	661
35°	1294	1286	1276	1264	1268	810
45°	1122	1116	1105	1091	1097	866
55°	918	906	893	887	894	819
65°	669	654	641	647	654	661
75°	379	372	372	336	325	400
85°	102	98	103	103	105	116
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1579.8	1579.8	1579.8	1579.8	1579.8
2.5°	1585.9	1578.9	1578.1	1575.5	1584.1
5°	1582.4	1578.1	1573.8	1572.1	1580.7
7.5°	1574.6	1570.3	1566.9	1564.4	1573.0
10°	1563.5	1555.8	1554.9	1553.1	1560.1
12.5°	1549.7	1542.0	1539.4	1536.8	1544.5
15°	1530.8	1523.9	1520.5	1517.1	1525.7
17.5°	1511.9	1502.4	1499.0	1495.6	1502.4
20°	1488.6	1479.2	1474.1	1468.9	1476.6
22.5°	1462.0	1452.6	1448.3	1439.7	1448.3
25°	1432.7	1424.1	1418.2	1409.6	1415.5
27.5°	1402.6	1392.4	1386.3	1375.2	1381.1
30°	1368.2	1363.1	1348.5	1339.9	1348.5
32.5°	1331.3	1322.7	1315.0	1304.6	1309.8
35°	1294.3	1286.5	1276.3	1264.2	1267.7
37.5°	1253.9	1247.0	1234.9	1223.8	1227.2
40°	1212.6	1204.8	1191.9	1181.7	1186.0
42.5°	1168.8	1161.0	1148.1	1139.5	1144.6
45°	1121.5	1116.3	1105.1	1091.4	1097.3
47.5°	1075.8	1070.7	1056.1	1044.9	1050.0
50°	1025.1	1019.1	1002.7	995.0	999.3
52.5°	971.0	961.5	947.7	942.5	947.7
55°	917.6	906.5	892.7	886.6	893.6
57.5°	860.8	849.7	833.4	829.1	837.7
60°	796.3	787.7	772.3	770.5	779.1
62.5°	736.1	723.2	706.9	710.3	721.6
65°	669.1	654.4	640.7	646.7	654.4
67.5°	602.8	584.8	575.4	580.5	581.3
70°	525.4	516.0	509.1	505.7	504.8
72.5°	451.5	443.7	443.7	420.6	414.5
75°	379.2	372.4	371.5	336.2	325.1
77.5°	307.0	302.7	288.1	259.7	259.7
80°	233.9	239.1	208.1	218.5	225.3
82.5°	165.1	169.4	160.8	162.6	165.1
85°	102.4	98.1	103.2	103.2	104.9
87.5°	41.3	45.6	47.3	49.9	51.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)