

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: P184328

Luminaire Tested: **ENW/ENC-24-2-LD1-25-40-CA080-UNV-EDC1**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P184328  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: ENW/ENC-24-2-LD1-25-40-CA080-UNV-EDC1  
Description: FAIL-SAFE 2X2 ENCOUNTER W/ 0.080" THICK CLEAR ACRYLIC LENS  
Light Source: 4000K LEDS  
Ballast/Driver: -

**Summary**

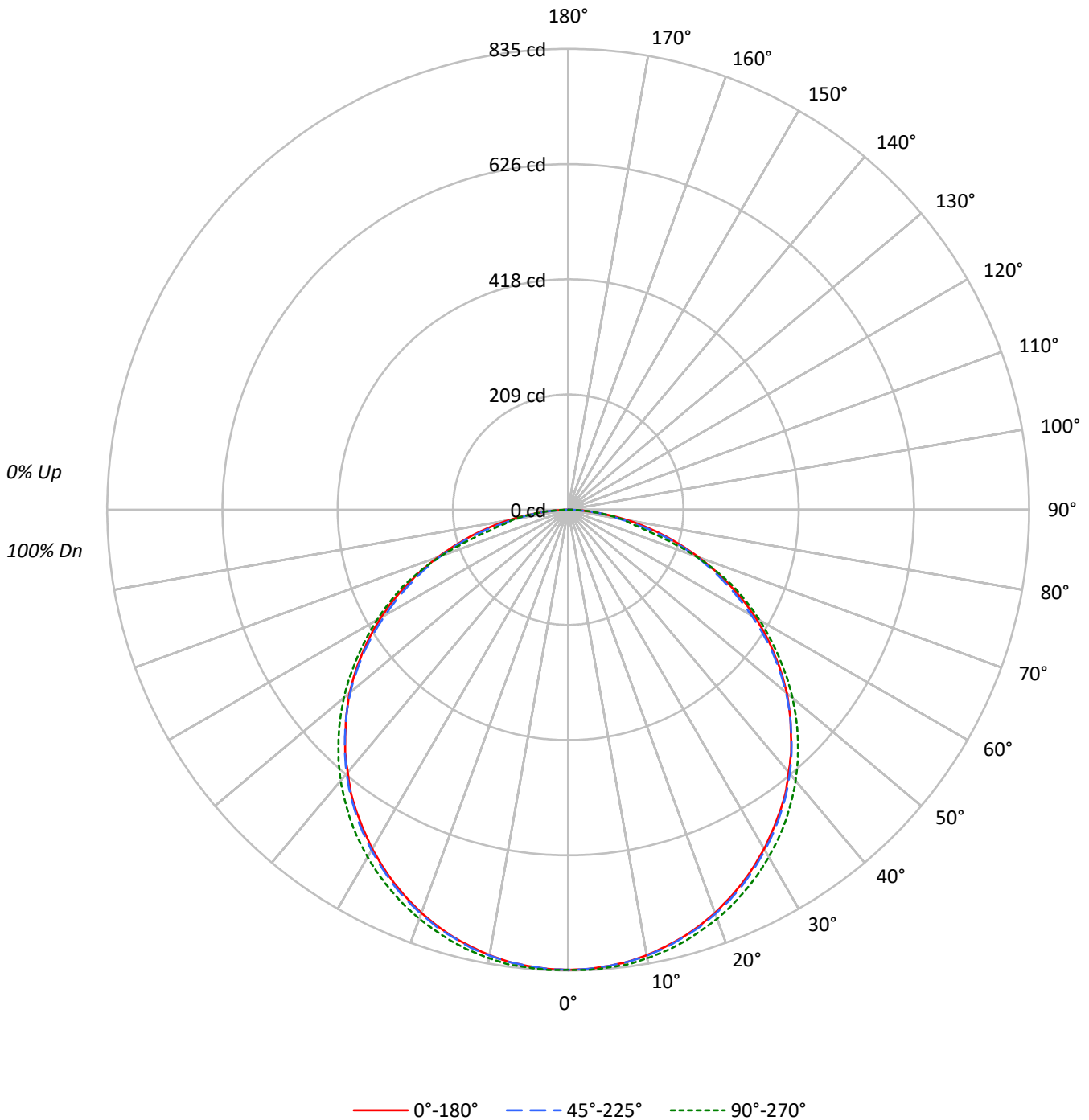
Lumens per Lamp: N/A  
Luminaire Lumens: 2469.8 lumens  
Efficiency: N/A  
Efficacy: 97.2 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 25.4  
Input Voltage (V): NR  
Input Current (Ain): 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	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	46	57	50	45	55	49	45	42
6	69	56	47	40	68	55	46	40	53	45	40	51	45	39	50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	26	37	30	25	36	30	25	24

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

	0°	45°	90°
0°	2244	2244	2244
5°	2232	2228	2240
10°	2220	2215	2235
15°	2204	2195	2228
20°	2186	2176	2218
25°	2166	2153	2207
30°	2143	2127	2194
35°	2121	2101	2181
40°	2095	2070	2161
45°	2068	2031	2133
50°	2043	1989	2095
55°	1996	1927	2041
60°	1942	1839	1983
65°	1854	1736	1908
70°	1736	1623	1697
75°	1565	1408	1293
80°	1316	1040	1202
85°	813	722	849



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	79.0	3.2
10°-20°	227.1	9.2
20°-30°	346.3	14.0
30°-40°	422.1	17.1
40°-50°	444.0	18.0
50°-60°	407.6	16.5
60°-70°	316.1	12.8
70°-80°	178.2	7.2
80°-90°	49.3	2.0
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°	652.5	26.4
0°-40°	1074.6	43.5
0°-60°	1926.2	78.0
0°-90°	2469.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2469.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	834	834	834	834	834	
5°	830	830	830	833	833	79
15°	802	802	803	808	810	226
25°	746	746	749	756	760	344
35°	668	669	671	681	687	418
45°	571	572	572	580	588	441
55°	456	454	452	458	466	408
65°	322	318	314	322	332	319
75°	179	177	171	153	148	189
85°	41	40	42	42	43	51
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	833.8	833.8	833.8	833.8	833.8
2.5°	832.8	832.8	832.8	834.7	834.7
5°	830.0	830.0	830.0	832.8	832.8
7.5°	826.3	826.3	826.3	829.1	831.0
10°	819.7	819.7	820.6	823.4	825.3
12.5°	811.2	811.2	813.1	816.9	818.7
15°	801.8	801.8	802.8	807.5	810.3
17.5°	790.5	789.6	792.4	797.1	799.9
20°	777.4	776.4	779.3	784.0	788.7
22.5°	762.3	762.3	765.2	770.8	775.5
25°	746.4	746.4	749.2	755.8	760.5
27.5°	728.5	728.5	731.3	739.8	744.5
30°	709.7	710.6	712.5	721.9	726.6
32.5°	689.0	690.9	692.8	702.2	707.8
35°	668.3	669.3	671.2	680.6	687.1
37.5°	646.7	645.8	648.6	658.0	664.6
40°	621.3	622.3	624.2	632.6	641.1
42.5°	597.8	596.9	598.8	607.2	615.7
45°	570.6	571.5	571.5	580.0	588.4
47.5°	544.3	544.3	544.3	551.8	560.2
50°	517.0	515.1	515.1	521.7	530.2
52.5°	486.9	485.0	484.1	491.6	499.1
55°	455.9	454.0	452.1	457.8	466.2
57.5°	424.9	422.1	418.3	423.9	433.3
60°	392.0	388.2	383.5	390.1	400.4
62.5°	358.1	353.4	348.7	356.3	365.7
65°	322.4	317.7	314.0	321.5	331.8
67.5°	286.7	282.0	280.1	285.8	289.5
70°	251.0	247.2	246.3	245.3	245.3
72.5°	214.3	211.5	209.6	200.2	194.6
75°	178.6	176.7	171.1	153.2	147.6
77.5°	143.8	141.9	130.7	116.6	117.5
80°	109.0	107.2	94.0	96.8	99.6
82.5°	74.3	72.4	69.6	70.5	70.5
85°	41.4	40.4	42.3	42.3	43.2
87.5°	16.9	16.9	17.9	18.8	19.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)