

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: P184381

Luminaire Tested: **ENW/ENC-24-2-LD1-43-40-CP125-UNV-EDC1**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P184381  
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-LD1-43-40-CP125-UNV-EDC1  
Description: \*\*\*THIS IS A REVISION OF P32403 TO UPDATE LUMINAIRE WATTAGE  
\*\*\*FAIL-SAFE 2X2 ENCOUNTER W/ 0.125" THICK CLEAR POLY LENS  
Light Source: 4000K LEDS  
Ballast/Driver: -

**Summary**

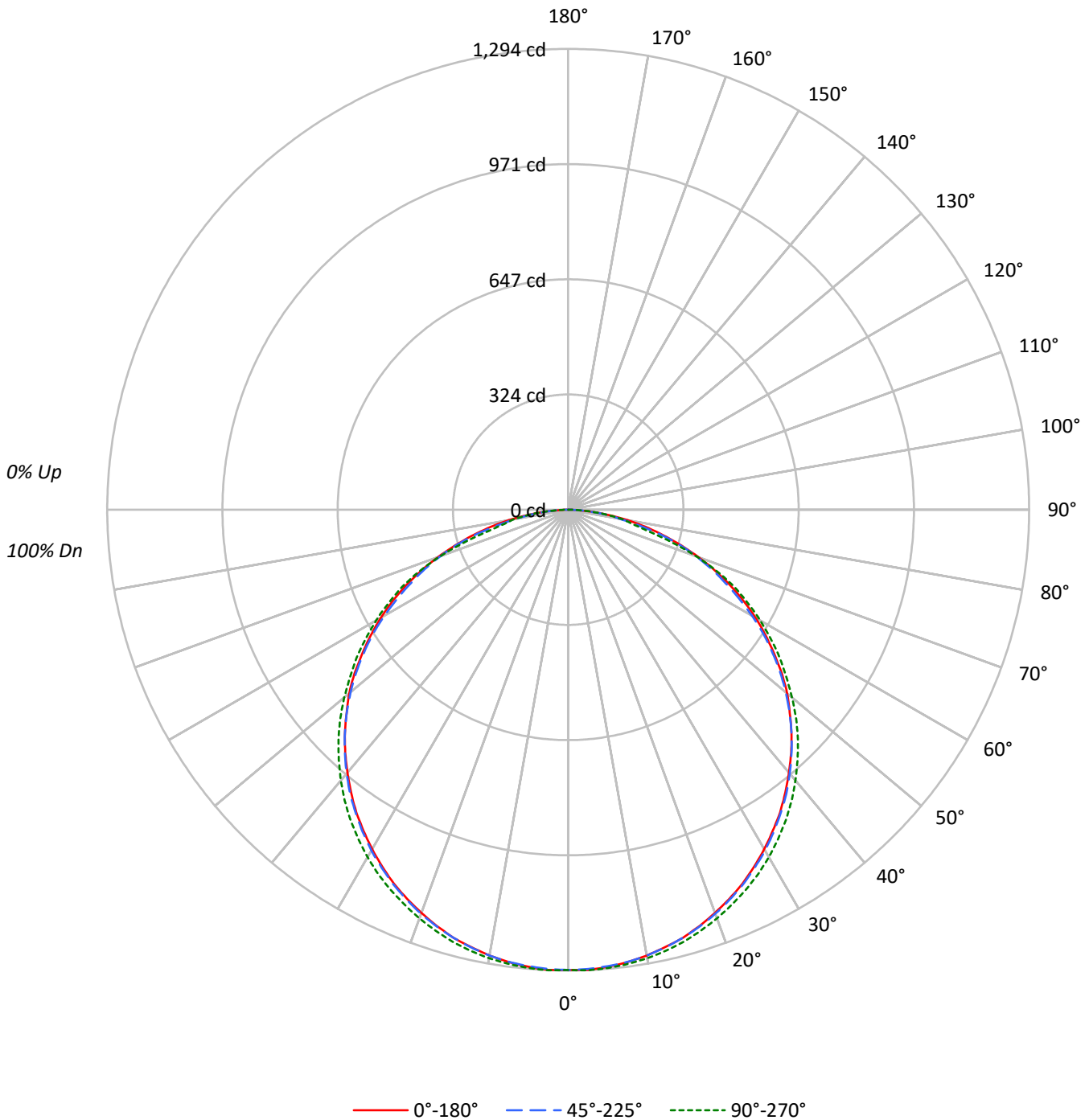
Lumens per Lamp: N/A  
Luminaire Lumens: 3828.5 lumens  
Efficiency: N/A  
Efficacy: 80.8 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.29 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 47.4  
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	98	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	67	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°	3478	3478	3478
5°	3465	3454	3474
10°	3443	3430	3464
15°	3421	3402	3452
20°	3388	3371	3435
25°	3361	3337	3419
30°	3325	3299	3402
35°	3292	3255	3379
40°	3250	3208	3346
45°	3213	3151	3304
50°	3170	3078	3242
55°	3091	2983	3175
60°	3011	2858	3084
65°	2883	2691	2963
70°	2689	2516	2647
75°	2418	2193	2012
80°	2034	1608	1869
85°	1283	1101	1301



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	122.5	3.2
10°-20°	351.9	9.2
20°-30°	536.7	14.0
30°-40°	653.8	17.1
40°-50°	688.1	18.0
50°-60°	631.7	16.5
60°-70°	490.9	12.8
70°-80°	276.9	7.2
80°-90°	76.0	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°	1011.2	26.4
0°-40°	1665.0	43.5
0°-60°	2984.8	78.0
0°-90°	3828.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3828.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1293	1293	1293	1293	1293	
5°	1288	1286	1286	1290	1292	122
15°	1244	1242	1244	1251	1256	351
25°	1158	1157	1161	1171	1178	534
35°	1037	1036	1040	1054	1065	648
45°	887	884	887	900	912	684
55°	706	704	700	708	725	632
65°	501	494	487	498	515	495
75°	276	274	267	237	230	292
85°	65	62	64	64	66	80
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1292.6	1292.6	1292.6	1292.6	1292.6
2.5°	1293.5	1290.8	1290.8	1293.5	1294.3
5°	1288.3	1286.5	1286.5	1290.0	1291.7
7.5°	1281.4	1280.6	1280.6	1284.9	1286.5
10°	1271.1	1271.1	1271.1	1276.3	1278.8
12.5°	1258.2	1257.3	1259.1	1265.0	1268.5
15°	1244.4	1241.9	1244.4	1251.3	1255.6
17.5°	1225.5	1223.8	1227.2	1234.1	1239.2
20°	1204.8	1204.0	1207.5	1216.1	1221.2
22.5°	1182.5	1181.7	1185.1	1194.6	1200.5
25°	1158.4	1156.7	1161.0	1171.3	1178.2
27.5°	1130.1	1130.1	1133.5	1145.5	1154.1
30°	1100.8	1100.8	1105.1	1117.2	1126.6
32.5°	1069.0	1069.9	1073.3	1087.1	1096.5
35°	1037.1	1035.5	1039.8	1053.5	1064.7
37.5°	1001.1	1000.2	1005.4	1018.3	1030.3
40°	964.0	964.0	967.5	980.4	992.5
42.5°	926.2	925.3	928.0	942.5	952.9
45°	886.6	884.1	886.6	899.5	911.6
47.5°	843.6	842.0	842.8	854.9	867.8
50°	802.4	798.1	797.2	808.4	820.5
52.5°	756.0	751.7	749.9	760.3	771.4
55°	706.0	703.5	700.1	707.8	725.0
57.5°	657.1	653.6	650.1	657.9	673.4
60°	608.0	602.0	596.0	603.7	622.7
62.5°	555.5	547.8	541.0	553.0	569.3
65°	501.4	494.5	486.7	498.0	515.2
67.5°	445.5	441.2	435.1	442.9	452.3
70°	388.7	385.3	381.9	381.0	382.7
72.5°	331.9	329.4	327.6	311.3	305.3
75°	276.0	274.4	266.6	237.3	229.6
77.5°	221.9	220.1	202.9	180.6	183.2
80°	168.5	164.2	145.4	148.8	154.8
82.5°	115.3	111.8	107.5	108.3	110.1
85°	65.3	61.9	64.5	64.5	66.2
87.5°	27.5	25.0	27.5	29.3	30.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)