

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: P184380

Luminaire Tested: **ENW/ENC-24-2-LD1-43-40-CA125-UNV-EDC1**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P184380  
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-CA125-UNV-EDC1  
Description: \*\*\*THIS IS A REVISION OF P32403 TO UPDATE LUMINAIRE WATTAGE  
\*\*\*FAIL-SAFE 2X2 ENCOUNTER W/ 0.125" THICK CLEAR ACRYLIC LENS  
Light Source: 4000K LEDS  
Ballast/Driver: -

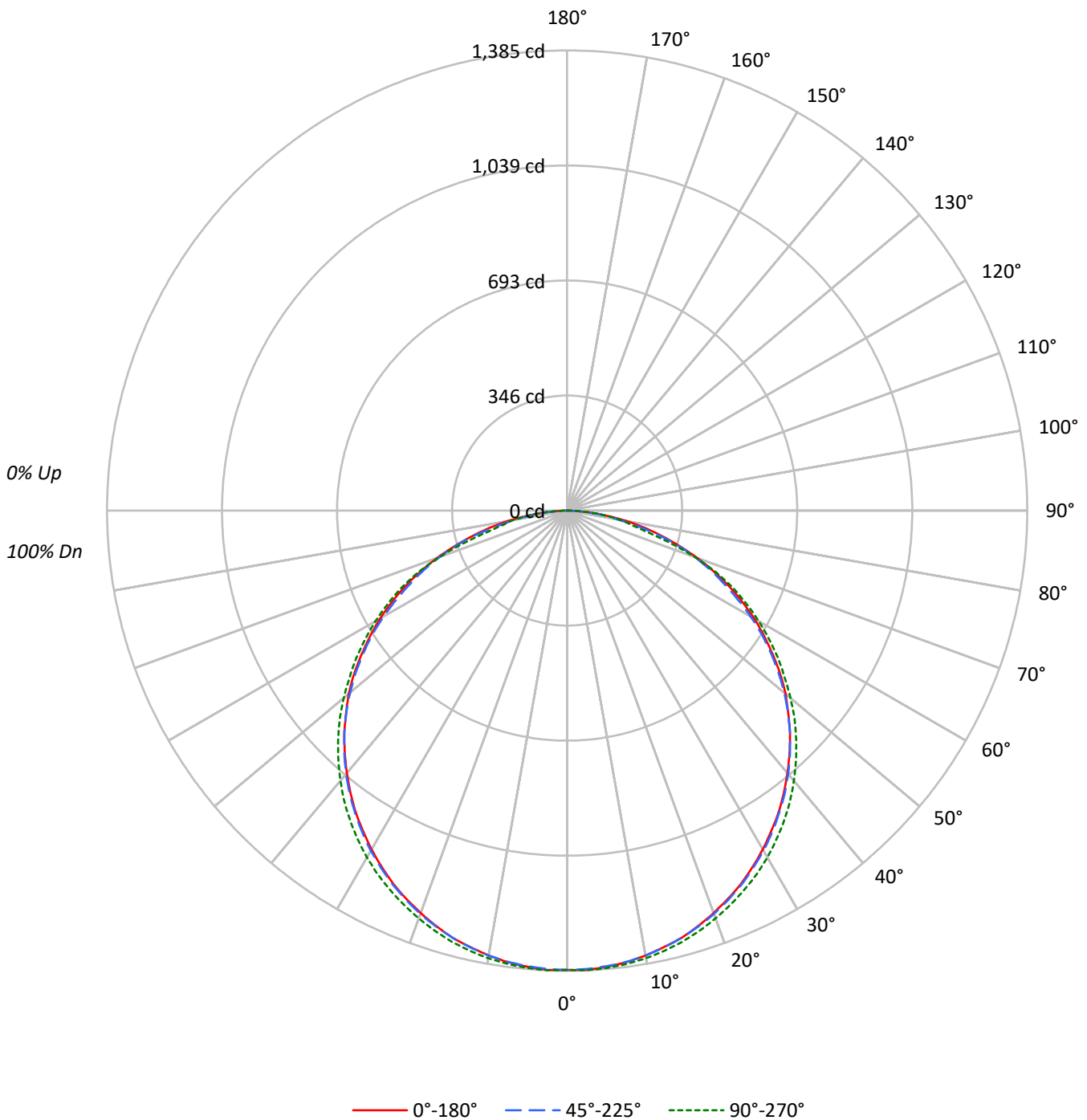
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4095.5 lumens  
Efficiency: N/A  
Efficacy: 86.4 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

TEST NUMBER: P184380

CATALOG NUMBER: ENW/ENC-24-2-LD1-43-40-CA125-UNV-EDC1

### Luminous Intensity Polar Plot





TEST NUMBER: P184380

CATALOG NUMBER: ENW/ENC-24-2-LD1-43-40-CA125-UNV-EDC1

**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	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83					83			
2	98	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	46	57	50	45	55	49	45	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	45	39	50	44	39	37					37			
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33					33			
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29					29			
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	26	51	38	31	26	37	30	26	37	30	25	36	30	25	24					24			

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

	0°	45°	90°
0°	3721	3721	3721
5°	3706	3695	3716
10°	3683	3670	3705
15°	3660	3640	3693
20°	3625	3606	3674
25°	3596	3570	3657
30°	3556	3529	3640
35°	3522	3482	3615
40°	3477	3432	3579
45°	3438	3371	3535
50°	3391	3293	3468
55°	3307	3191	3396
60°	3221	3057	3299
65°	3084	2879	3169
70°	2876	2691	2832
75°	2587	2346	2153
80°	2177	1720	1999
85°	1373	1178	1393



TEST NUMBER: P184380

CATALOG NUMBER: ENW/ENC-24-2-LD1-43-40-CA125-UNV-EDC1

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	131.1	3.2
10°-20°	376.5	9.2
20°-30°	574.2	14.0
30°-40°	699.4	17.1
40°-50°	736.1	18.0
50°-60°	675.7	16.5
60°-70°	525.1	12.8
70°-80°	296.2	7.2
80°-90°	81.3	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°	1081.7	26.4
0°-40°	1781.1	43.5
0°-60°	3192.9	78.0
0°-90°	4095.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4095.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1383	1383	1383	1383	1383	
5°	1378	1376	1376	1380	1382	131
15°	1331	1328	1331	1339	1343	375
25°	1239	1237	1242	1253	1260	571
35°	1110	1108	1112	1127	1139	694
45°	948	946	948	962	975	731
55°	755	752	749	757	776	676
65°	536	529	521	533	551	530
75°	295	294	285	254	246	313
85°	70	66	69	69	71	85
90°	0	0	0	0	0	



TEST NUMBER: P184380

CATALOG NUMBER: ENW/ENC-24-2-LD1-43-40-CA125-UNV-EDC1

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1382.7	1382.7	1382.7	1382.7	1382.7
2.5°	1383.7	1380.8	1380.8	1383.7	1384.6
5°	1378.1	1376.2	1376.2	1380.0	1381.8
7.5°	1370.8	1369.9	1369.9	1374.5	1376.2
10°	1359.7	1359.7	1359.7	1365.3	1368.0
12.5°	1345.9	1345.0	1346.9	1353.2	1357.0
15°	1331.2	1328.5	1331.2	1338.6	1343.2
17.5°	1311.0	1309.1	1312.8	1320.2	1325.6
20°	1288.9	1288.0	1291.7	1300.9	1306.4
22.5°	1265.0	1264.1	1267.7	1277.9	1284.3
25°	1239.2	1237.4	1242.0	1253.0	1260.4
27.5°	1208.9	1208.9	1212.5	1225.4	1234.6
30°	1177.6	1177.6	1182.2	1195.1	1205.2
32.5°	1143.5	1144.5	1148.1	1162.9	1173.0
35°	1109.5	1107.7	1112.3	1127.0	1138.9
37.5°	1070.9	1069.9	1075.5	1089.3	1102.1
40°	1031.3	1031.3	1035.0	1048.8	1061.7
42.5°	990.8	989.9	992.7	1008.3	1019.3
45°	948.5	945.7	948.5	962.3	975.2
47.5°	902.5	900.7	901.6	914.5	928.3
50°	858.3	853.7	852.8	864.8	877.7
52.5°	808.7	804.1	802.2	813.3	825.2
55°	755.3	752.5	748.9	757.1	775.5
57.5°	702.9	699.2	695.5	703.8	720.3
60°	650.4	644.0	637.5	645.8	666.1
62.5°	594.3	586.0	578.7	591.5	609.0
65°	536.3	529.0	520.7	532.7	551.1
67.5°	476.5	471.9	465.5	473.8	483.9
70°	415.8	412.1	408.5	407.5	409.4
72.5°	355.1	352.3	350.5	333.1	326.6
75°	295.3	293.5	285.2	253.9	245.7
77.5°	237.3	235.5	217.1	193.2	195.9
80°	180.3	175.7	155.5	159.1	165.6
82.5°	123.3	119.6	115.0	115.9	117.7
85°	69.9	66.3	69.0	69.0	70.9
87.5°	29.5	26.7	29.5	31.3	32.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)