

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: P184382

Luminaire Tested: **ENW/ENC-24-2-LD1-43-40-CP187-UNV-EDC1**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P184382  
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-CP187-UNV-EDC1  
Description: \*\*\*THIS IS A REVISION OF P32403 TO UPDATE LUMINAIRE WATTAGE  
\*\*\*FAIL-SAFE 2X2 ENCOUNTER W/ 0.187" THICK CLEAR POLY LENS  
Light Source: 4000K LEDS  
Ballast/Driver: -

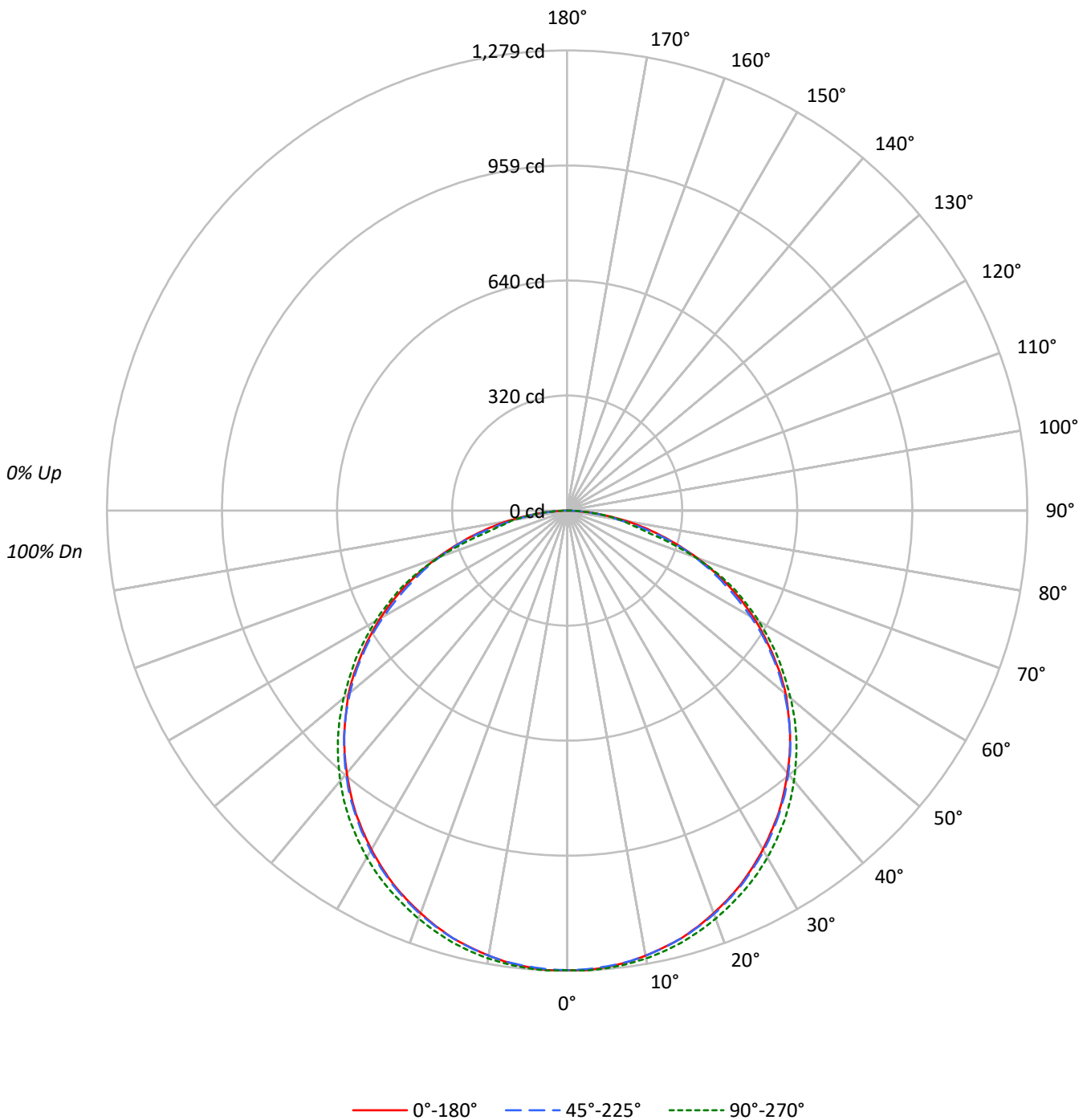
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3784.2 lumens  
Efficiency: N/A  
Efficacy: 79.8 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°	3438	3438	3438
5°	3425	3414	3434
10°	3403	3391	3424
15°	3381	3363	3412
20°	3349	3332	3395
25°	3322	3299	3379
30°	3286	3261	3363
35°	3254	3217	3340
40°	3213	3171	3307
45°	3176	3115	3266
50°	3134	3043	3204
55°	3056	2949	3138
60°	2977	2825	3049
65°	2850	2660	2928
70°	2658	2487	2617
75°	2390	2168	1989
80°	2011	1589	1847
85°	1269	1089	1287



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	121.1	3.2
10°-20°	347.9	9.2
20°-30°	530.5	14.0
30°-40°	646.3	17.1
40°-50°	680.1	18.0
50°-60°	624.3	16.5
60°-70°	485.2	12.8
70°-80°	273.7	7.2
80°-90°	75.1	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°	999.5	26.4
0°-40°	1645.7	43.5
0°-60°	2950.2	78.0
0°-90°	3784.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3784.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1278	1278	1278	1278	1278	
5°	1273	1272	1272	1275	1277	121
15°	1230	1228	1230	1237	1241	347
25°	1145	1143	1148	1158	1165	527
35°	1025	1024	1028	1041	1052	641
45°	876	874	876	889	901	676
55°	698	695	692	700	717	624
65°	496	489	481	492	509	489
75°	273	271	264	235	227	289
85°	65	61	64	64	66	79
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1277.6	1277.6	1277.6	1277.6	1277.6
2.5°	1278.5	1275.9	1275.9	1278.5	1279.3
5°	1273.3	1271.6	1271.6	1275.1	1276.8
7.5°	1266.6	1265.7	1265.7	1270.0	1271.6
10°	1256.3	1256.3	1256.3	1261.5	1264.0
12.5°	1243.6	1242.8	1244.5	1250.4	1253.8
15°	1230.0	1227.5	1230.0	1236.8	1241.1
17.5°	1211.3	1209.6	1213.0	1219.8	1224.9
20°	1190.9	1190.1	1193.5	1202.0	1207.1
22.5°	1168.8	1168.0	1171.3	1180.7	1186.6
25°	1145.0	1143.3	1147.6	1157.8	1164.6
27.5°	1117.0	1117.0	1120.3	1132.3	1140.8
30°	1088.1	1088.1	1092.3	1104.2	1113.6
32.5°	1056.6	1057.5	1060.8	1074.5	1083.8
35°	1025.1	1023.5	1027.7	1041.3	1052.3
37.5°	989.5	988.6	993.7	1006.5	1018.3
40°	952.9	952.9	956.3	969.0	981.0
42.5°	915.5	914.6	917.2	931.6	941.8
45°	876.4	873.8	876.4	889.1	901.0
47.5°	833.9	832.2	833.0	845.0	857.7
50°	793.1	788.8	788.0	799.0	811.0
52.5°	747.2	743.0	741.3	751.5	762.5
55°	697.8	695.3	692.0	699.6	716.6
57.5°	649.5	646.0	642.6	650.3	665.6
60°	601.0	595.0	589.1	596.7	615.5
62.5°	549.1	541.5	534.7	546.6	562.7
65°	495.6	488.8	481.1	492.2	509.2
67.5°	440.3	436.1	430.1	437.8	447.1
70°	384.2	380.8	377.5	376.6	378.3
72.5°	328.1	325.5	323.8	307.7	301.8
75°	272.8	271.2	263.5	234.6	227.0
77.5°	219.3	217.6	200.6	178.5	181.0
80°	166.6	162.3	143.7	147.0	153.0
82.5°	113.9	110.5	106.3	107.1	108.8
85°	64.6	61.2	63.8	63.8	65.5
87.5°	27.2	24.7	27.2	28.9	29.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)