

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: P184383

Luminaire Tested: **ENW/ENC-24-2-LD1-43-40-CP250-UNV-EDC1**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P184383  
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-CP250-UNV-EDC1  
Description: \*\*\*THIS IS A REVISION OF P32403 TO UPDATE LUMINAIRE WATTAGE  
\*\*\*FAIL-SAFE 2X2 ENCOUNTER W/ 0.250" THICK CLEAR POLY LENS  
Light Source: 4000K LEDS  
Ballast/Driver: -

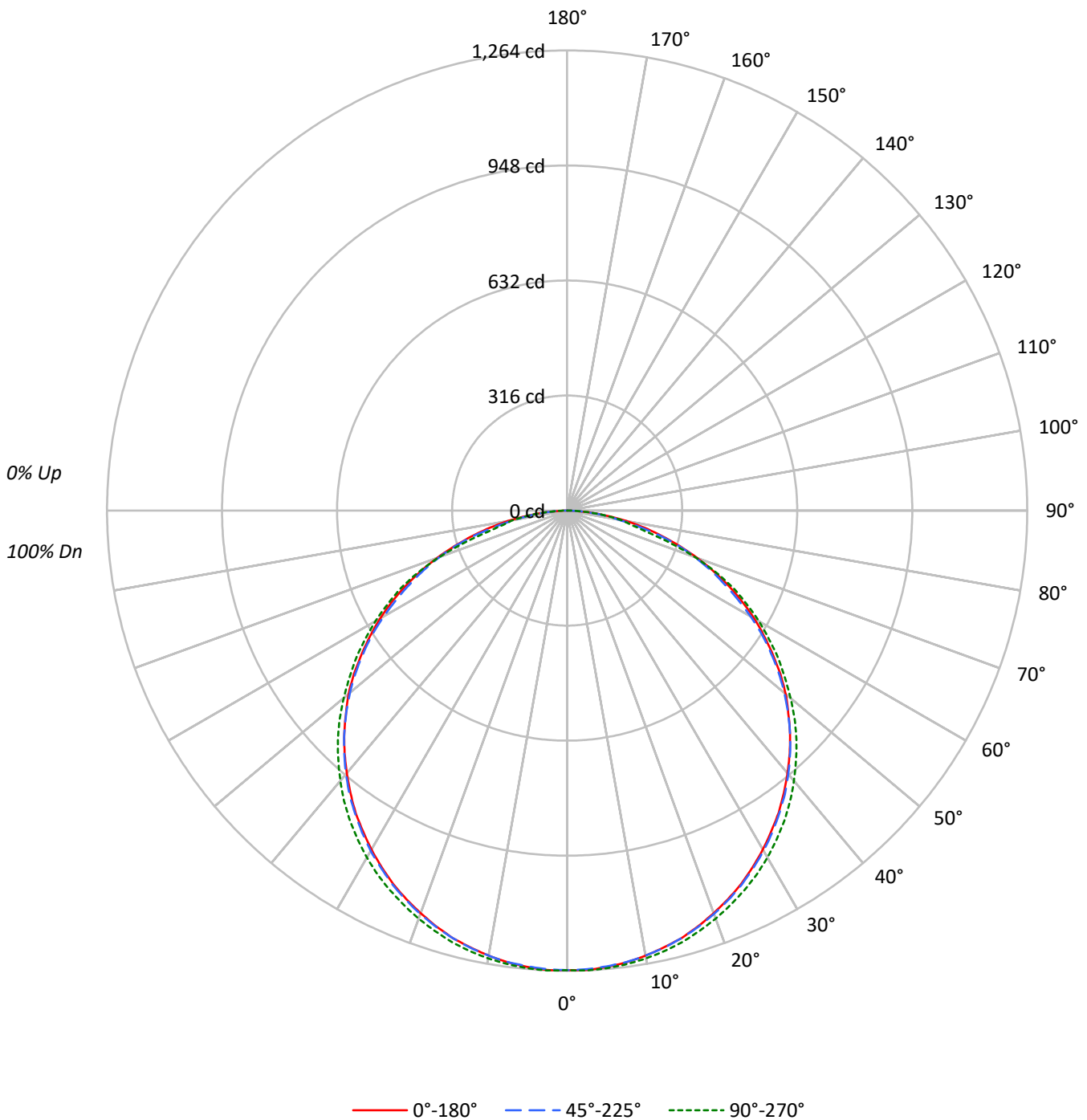
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3739.5 lumens  
Efficiency: N/A  
Efficacy: 78.9 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°	3397	3397	3397
5°	3384	3374	3393
10°	3363	3351	3383
15°	3342	3323	3371
20°	3310	3293	3355
25°	3283	3260	3339
30°	3247	3222	3323
35°	3215	3179	3301
40°	3174	3134	3268
45°	3139	3078	3227
50°	3096	3007	3166
55°	3020	2914	3101
60°	2942	2791	3012
65°	2816	2628	2894
70°	2627	2457	2586
75°	2362	2142	1965
80°	1987	1571	1825
85°	1253	1076	1271



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	119.7	3.2
10°-20°	343.8	9.2
20°-30°	524.2	14.0
30°-40°	638.6	17.1
40°-50°	672.1	18.0
50°-60°	617.0	16.5
60°-70°	479.5	12.8
70°-80°	270.4	7.2
80°-90°	74.2	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°	987.7	26.4
0°-40°	1626.3	43.5
0°-60°	2915.3	78.0
0°-90°	3739.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3739.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1262	1262	1262	1262	1262	
5°	1258	1257	1257	1260	1262	120
15°	1216	1213	1216	1222	1226	343
25°	1132	1130	1134	1144	1151	521
35°	1013	1011	1016	1029	1040	633
45°	866	864	866	879	890	668
55°	690	687	684	691	708	617
65°	490	483	475	486	503	484
75°	270	268	260	232	224	286
85°	64	60	63	63	65	78
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1262.5	1262.5	1262.5	1262.5	1262.5
2.5°	1263.4	1260.8	1260.8	1263.4	1264.2
5°	1258.3	1256.6	1256.6	1260.0	1261.7
7.5°	1251.6	1250.8	1250.8	1255.0	1256.6
10°	1241.5	1241.5	1241.5	1246.6	1249.1
12.5°	1228.9	1228.1	1229.8	1235.6	1239.0
15°	1215.5	1213.0	1215.5	1222.2	1226.4
17.5°	1197.0	1195.3	1198.7	1205.4	1210.4
20°	1176.8	1176.0	1179.4	1187.8	1192.8
22.5°	1155.0	1154.2	1157.5	1166.8	1172.6
25°	1131.5	1129.8	1134.0	1144.1	1150.8
27.5°	1103.8	1103.8	1107.1	1118.9	1127.3
30°	1075.2	1075.2	1079.4	1091.2	1100.4
32.5°	1044.1	1045.0	1048.3	1061.8	1071.0
35°	1013.0	1011.4	1015.6	1029.0	1039.9
37.5°	977.8	976.9	982.0	994.6	1006.3
40°	941.6	941.6	945.0	957.6	969.4
42.5°	904.7	903.8	906.4	920.6	930.7
45°	866.0	863.5	866.0	878.6	890.4
47.5°	824.0	822.4	823.2	835.0	847.6
50°	783.7	779.5	778.7	789.6	801.4
52.5°	738.4	734.2	732.5	742.6	753.5
55°	689.6	687.1	683.8	691.3	708.1
57.5°	641.8	638.4	635.0	642.6	657.7
60°	593.9	588.0	582.1	589.7	608.2
62.5°	542.6	535.1	528.4	540.1	556.1
65°	489.7	483.0	475.4	486.4	503.2
67.5°	435.1	430.9	425.0	432.6	441.8
70°	379.7	376.3	373.0	372.1	373.8
72.5°	324.2	321.7	320.0	304.1	298.2
75°	269.6	268.0	260.4	231.8	224.3
77.5°	216.7	215.0	198.2	176.4	178.9
80°	164.6	160.4	142.0	145.3	151.2
82.5°	112.6	109.2	105.0	105.8	107.5
85°	63.8	60.5	63.0	63.0	64.7
87.5°	26.9	24.4	26.9	28.6	29.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)