

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: P184347

Luminaire Tested: **ENW/ENC-12-2-LD1-27-40-CP250-UNV-EDC1**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P184347  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: ENW/ENC-12-2-LD1-27-40-CP250-UNV-EDC1  
Description: FAIL-SAFE 1X2 ENCOUNTER W/ 0.250" THICK POLY LENS  
Light Source: 4000K LEDS  
Ballast/Driver: -

**Summary**

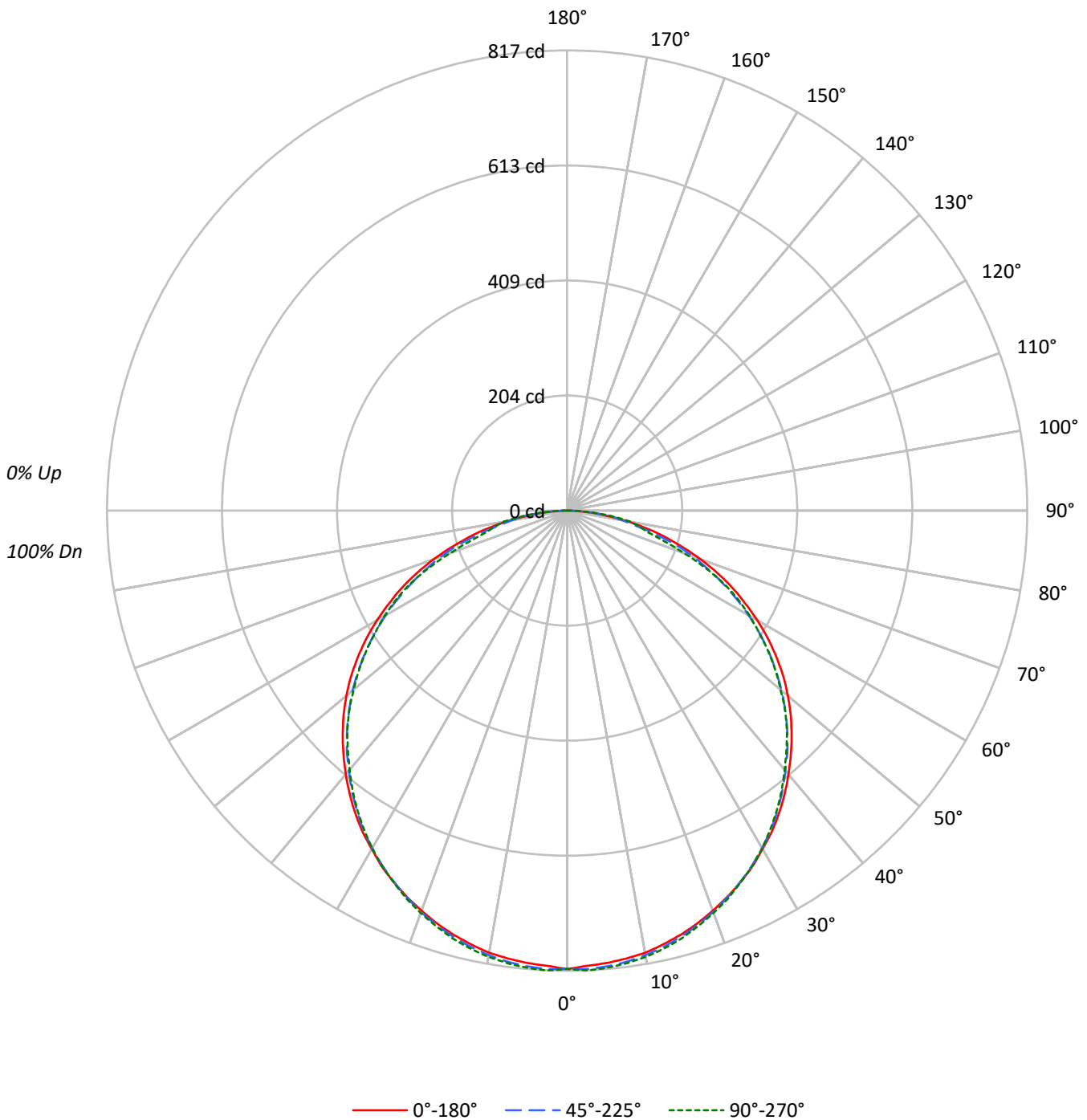
Lumens per Lamp: N/A  
Luminaire Lumens: 2397.7 lumens  
Efficiency: N/A  
Efficacy: 81.6 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.26 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 2' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 29.4  
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	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	45	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	32
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	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	25	37	30	25	36	30	25	23

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

	0°	45°	90°
0°	4381	4381	4381
5°	4338	4348	4364
10°	4319	4299	4321
15°	4286	4242	4266
20°	4252	4183	4201
25°	4226	4116	4132
30°	4191	4053	4067
35°	4164	3981	3987
40°	4123	3891	3893
45°	4085	3803	3819
50°	4043	3697	3702
55°	3973	3559	3580
60°	3861	3384	3437
65°	3720	3155	3223
70°	3475	2896	2727
75°	3135	2415	2238
80°	2576	1902	2259
85°	1717	1407	1475



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	77.1	3.2
10°-20°	220.9	9.2
20°-30°	335.7	14.0
30°-40°	407.5	17.0
40°-50°	427.8	17.8
50°-60°	393.7	16.4
60°-70°	305.8	12.8
70°-80°	174.6	7.3
80°-90°	54.5	2.3
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°	633.8	26.4
0°-40°	1041.3	43.4
0°-60°	1862.7	77.7
0°-90°	2397.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2397.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	814	814	814	814	814	
5°	806	809	812	815	815	77
15°	780	780	783	785	786	220
25°	728	728	727	729	728	336
35°	656	654	651	649	649	410
45°	564	559	553	548	552	435
55°	454	448	437	434	436	405
65°	323	316	304	307	307	319
75°	179	172	162	150	148	189
85°	44	45	50	50	51	51
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	814.0	814.0	814.0	814.0	814.0
2.5°	808.9	811.4	814.8	817.3	817.3
5°	806.4	808.9	812.3	814.8	814.8
7.5°	802.2	804.7	808.1	809.8	810.6
10°	797.2	798.0	801.4	803.9	804.7
12.5°	788.8	789.6	793.0	794.6	796.3
15°	779.5	780.4	782.9	784.6	786.2
17.5°	768.6	769.4	771.1	772.8	773.6
20°	756.0	756.8	758.5	759.4	760.2
22.5°	742.6	743.4	743.4	745.1	745.9
25°	728.3	728.3	727.4	729.1	728.3
27.5°	712.3	711.5	710.6	710.6	711.5
30°	693.8	693.0	692.2	692.2	692.2
32.5°	676.2	673.7	672.8	671.2	671.2
35°	656.0	653.5	651.0	649.3	649.3
37.5°	634.2	631.7	627.5	625.0	625.8
40°	611.5	609.0	603.1	600.6	600.6
42.5°	588.0	584.6	578.8	575.4	576.2
45°	563.6	559.4	552.7	548.5	551.9
47.5°	538.4	533.4	525.0	521.6	525.0
50°	511.6	506.5	497.3	493.1	494.8
52.5°	483.8	478.0	467.0	464.5	466.2
55°	453.6	447.7	436.8	434.3	436.0
57.5°	422.5	417.5	404.9	401.5	404.0
60°	389.8	383.9	372.1	370.4	374.6
62.5°	356.2	350.3	338.5	339.4	342.7
65°	323.4	315.8	304.1	307.4	307.4
67.5°	288.1	280.6	270.5	268.8	265.4
70°	251.2	245.3	237.7	226.8	220.9
72.5°	214.2	208.3	201.6	183.1	179.8
75°	178.9	172.2	162.1	149.5	147.8
77.5°	142.8	138.6	126.0	126.0	131.0
80°	106.7	105.0	98.3	109.2	114.2
82.5°	72.2	71.4	79.0	83.2	83.2
85°	43.7	45.4	50.4	49.6	51.2
87.5°	18.5	21.0	21.8	22.7	22.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)