

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: P184339

Luminaire Tested: **ENW/ENC-12-2-LD1-13-40-CP250-UNV-EDC1**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P184339  
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-LD1-13-40-CP250-UNV-EDC1  
Description: FAIL-SAFE ENCOUNTER W/ 0.250" THICK CLEAR POLY LENS  
Light Source: 4000K LEDS  
Ballast/Driver: -

**Summary**

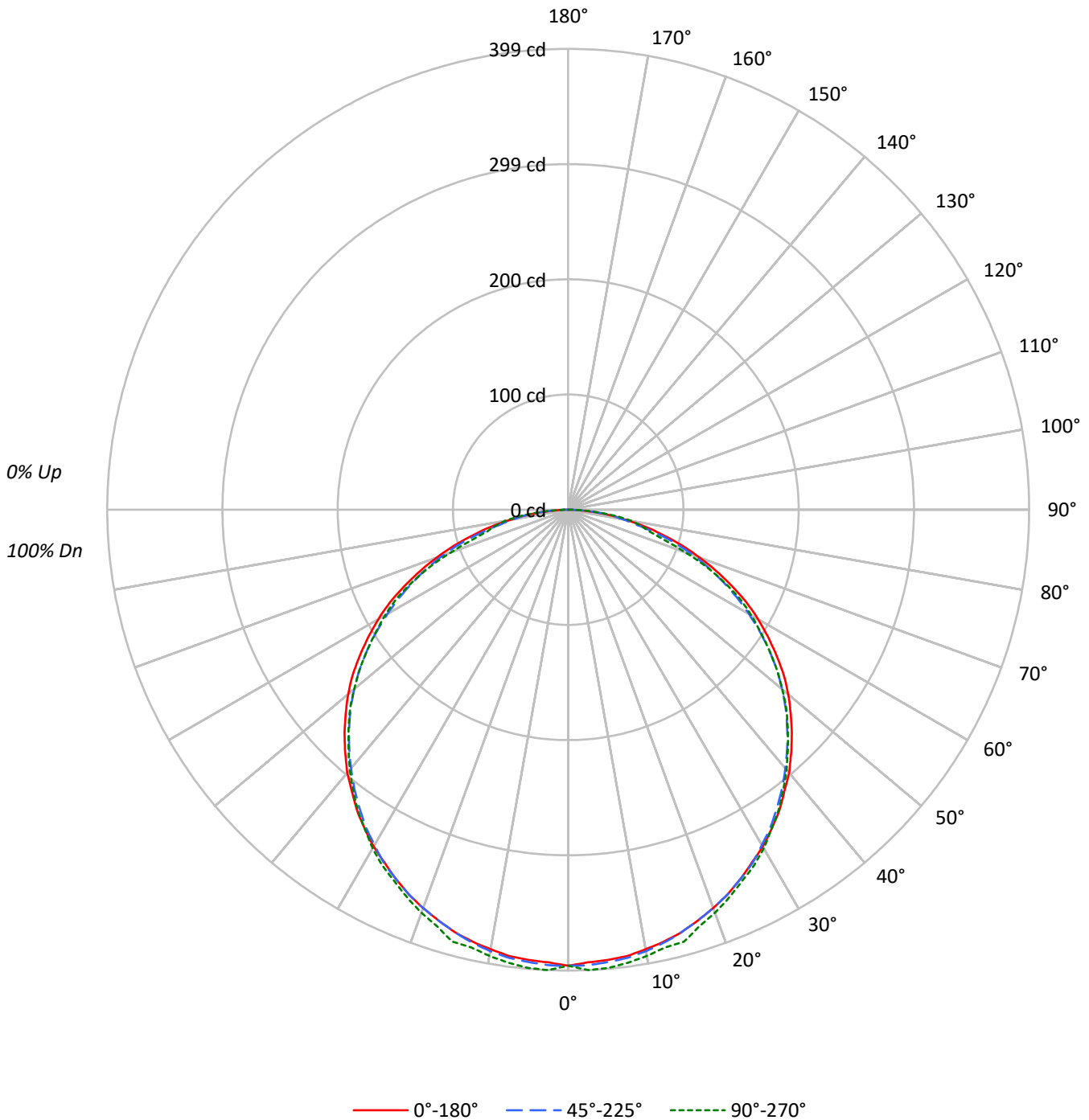
Lumens per Lamp: N/A  
Luminaire Lumens: 1165.9 lumens  
Efficiency: N/A  
Efficacy: 74.3 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 2' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 15.7  
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	103	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	67	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	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	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	36	30	25	36	30	25	23

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

	0°	45°	90°
0°	2125	2125	2125
5°	2105	2104	2133
10°	2093	2082	2107
15°	2083	2052	2101
20°	2065	2024	2052
25°	2047	1996	2016
30°	2034	1963	1989
35°	2021	1927	1950
40°	2005	1886	1906
45°	1985	1844	1860
50°	1964	1798	1810
55°	1928	1732	1745
60°	1880	1642	1680
65°	1797	1533	1568
70°	1674	1402	1327
75°	1502	1177	1093
80°	1236	927	1096
85°	825	681	726



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	37.4	3.2
10°-20°	107.3	9.2
20°-30°	162.9	14.0
30°-40°	197.9	17.0
40°-50°	208.1	17.8
50°-60°	191.7	16.4
60°-70°	148.9	12.8
70°-80°	84.9	7.3
80°-90°	26.7	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°	307.7	26.4
0°-40°	505.6	43.4
0°-60°	905.4	77.7
0°-90°	1165.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1165.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	395	395	395	395	395	
5°	391	392	393	395	398	37
15°	379	380	379	380	387	107
25°	353	354	353	354	355	163
35°	318	318	315	315	318	199
45°	274	272	268	267	269	211
55°	220	218	212	211	212	197
65°	156	154	148	150	150	154
75°	86	84	79	72	72	91
85°	21	23	24	25	25	25
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	394.8	394.8	394.8	394.8	394.8
2.5°	392.3	394.0	394.8	395.6	399.0
5°	391.4	392.3	393.1	394.8	398.2
7.5°	389.8	390.6	391.4	394.0	395.6
10°	386.4	387.2	388.1	388.9	392.3
12.5°	383.0	383.9	383.9	385.6	388.1
15°	378.8	379.7	378.8	380.5	387.2
17.5°	373.0	375.5	373.0	374.6	378.0
20°	367.1	367.9	367.1	367.9	371.3
22.5°	360.4	360.4	360.4	359.5	363.7
25°	352.8	353.6	352.8	353.6	355.3
27.5°	344.4	346.1	345.2	344.4	347.8
30°	336.8	336.8	335.2	335.2	338.5
32.5°	327.6	329.3	325.9	325.9	327.6
35°	318.4	317.5	315.0	315.0	317.5
37.5°	307.4	306.6	304.1	303.2	305.8
40°	297.4	295.7	292.3	292.3	294.0
42.5°	285.6	283.9	280.6	279.7	281.4
45°	273.8	272.2	268.0	267.1	268.8
47.5°	261.2	260.4	255.4	254.5	256.2
50°	248.6	247.0	241.9	240.2	241.9
52.5°	235.2	232.7	227.6	226.0	227.6
55°	220.1	218.4	212.5	210.8	212.5
57.5°	205.0	203.3	196.6	195.7	197.4
60°	189.8	187.3	180.6	180.6	183.1
62.5°	173.9	170.5	164.6	165.5	168.0
65°	156.2	153.7	147.8	149.5	149.5
67.5°	138.6	136.9	131.9	131.0	130.2
70°	121.0	119.3	115.1	110.9	107.5
72.5°	103.3	100.8	98.3	89.0	87.4
75°	85.7	84.0	79.0	72.2	72.2
77.5°	68.9	68.0	61.3	61.3	64.7
80°	51.2	52.1	47.9	52.9	55.4
82.5°	36.1	35.3	38.6	41.2	41.2
85°	21.0	22.7	24.4	25.2	25.2
87.5°	9.2	10.1	10.1	10.9	10.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)