

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: P184370

Luminaire Tested: **ENW/ENC-24-2-LD1-25-40-CP187-UNV-EDC1**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P184370  
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-LD1-25-40-CP187-UNV-EDC1  
Description: FAIL-SAFE 2X2 ENCOUNTER W/ 0.187" THICK CLEAR POLY LENS  
Light Source: 4000K LEDS  
Ballast/Driver: -

**Summary**

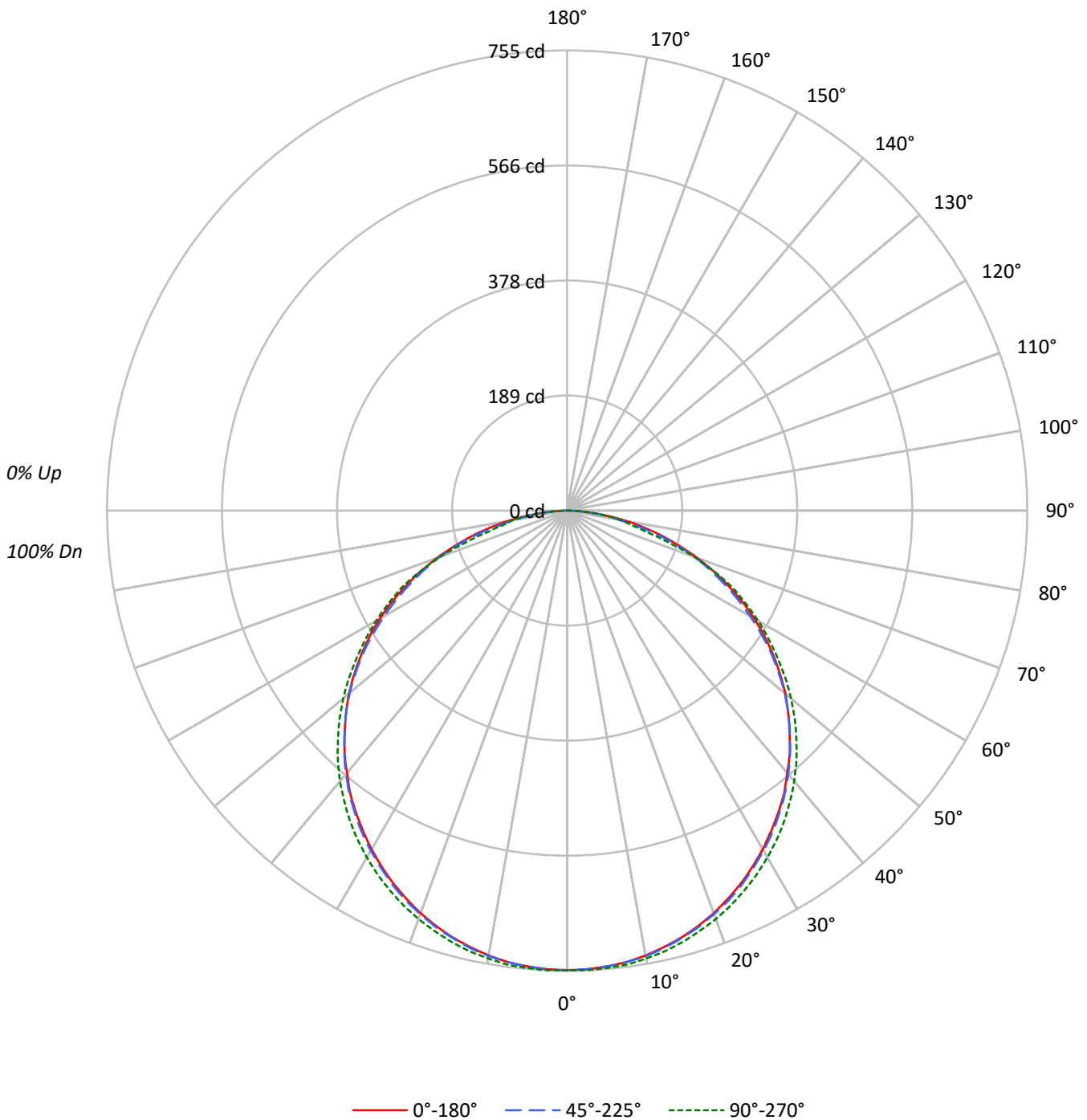
Lumens per Lamp: N/A  
Luminaire Lumens: 2233.4 lumens  
Efficiency: N/A  
Efficacy: 87.9 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 25.4  
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	99	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	68	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°	2029	2029	2029
5°	2019	2015	2025
10°	2008	2003	2021
15°	1993	1985	2015
20°	1977	1967	2006
25°	1959	1947	1995
30°	1938	1923	1985
35°	1918	1900	1972
40°	1894	1872	1954
45°	1870	1837	1929
50°	1847	1798	1894
55°	1805	1742	1846
60°	1756	1663	1793
65°	1676	1570	1725
70°	1570	1467	1534
75°	1415	1273	1170
80°	1190	940	1088
85°	735	654	768



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.5	3.2
10°-20°	205.4	9.2
20°-30°	313.2	14.0
30°-40°	381.7	17.1
40°-50°	401.6	18.0
50°-60°	368.6	16.5
60°-70°	285.8	12.8
70°-80°	161.2	7.2
80°-90°	44.6	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°	590.0	26.4
0°-40°	971.7	43.5
0°-60°	1741.9	78.0
0°-90°	2233.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2233.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	754	754	754	754	754	
5°	751	751	751	753	753	71
15°	725	725	726	730	733	205
25°	675	675	678	684	688	311
35°	604	605	607	616	621	378
45°	516	517	517	524	532	399
55°	412	411	409	414	422	369
65°	292	287	284	291	300	288
75°	162	160	155	138	134	171
85°	37	36	38	38	39	46
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	754.0	754.0	754.0	754.0	754.0
2.5°	753.1	753.1	753.1	754.8	754.8
5°	750.6	750.6	750.6	753.1	753.1
7.5°	747.2	747.2	747.2	749.8	751.5
10°	741.3	741.3	742.1	744.6	746.3
12.5°	733.6	733.6	735.3	738.7	740.4
15°	725.1	725.1	726.0	730.2	732.8
17.5°	714.8	714.0	716.6	720.8	723.3
20°	703.0	702.1	704.7	709.0	713.2
22.5°	689.3	689.3	692.0	697.0	701.3
25°	675.0	675.0	677.5	683.5	687.7
27.5°	658.8	658.8	661.3	669.0	673.3
30°	641.8	642.6	644.3	652.8	657.1
32.5°	623.1	624.8	626.5	635.0	640.1
35°	604.3	605.2	607.0	615.5	621.3
37.5°	584.8	584.0	586.5	595.0	601.0
40°	561.8	562.7	564.5	572.1	579.7
42.5°	540.6	539.8	541.5	549.1	556.8
45°	516.0	516.8	516.8	524.5	532.1
47.5°	492.2	492.2	492.2	499.0	506.6
50°	467.5	465.8	465.8	471.8	479.5
52.5°	440.3	438.6	437.8	444.6	451.3
55°	412.3	410.6	408.8	414.0	421.6
57.5°	384.2	381.7	378.3	383.3	391.8
60°	354.5	351.0	346.8	352.8	362.1
62.5°	323.8	319.6	315.3	322.2	330.7
65°	291.5	287.3	284.0	290.7	300.0
67.5°	259.3	255.0	253.3	258.4	261.8
70°	227.0	223.5	222.7	221.8	221.8
72.5°	193.8	191.3	189.5	181.0	176.0
75°	161.5	159.8	154.7	138.5	133.5
77.5°	130.0	128.3	118.2	105.4	106.3
80°	98.6	96.9	85.0	87.5	90.1
82.5°	67.2	65.5	62.9	63.8	63.8
85°	37.4	36.5	38.3	38.3	39.1
87.5°	15.3	15.3	16.2	17.0	17.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)