

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: P184371

Luminaire Tested: **ENW/ENC-24-2-LD1-25-40-CP250-UNV-EDC1**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P184371  
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-CP250-UNV-EDC1  
Description: FAIL-SAFE 2X2 ENCOUNTER W/ 0.250" THICK CLEAR POLY LENS  
Light Source: 4000K LEDS  
Ballast/Driver: -

**Summary**

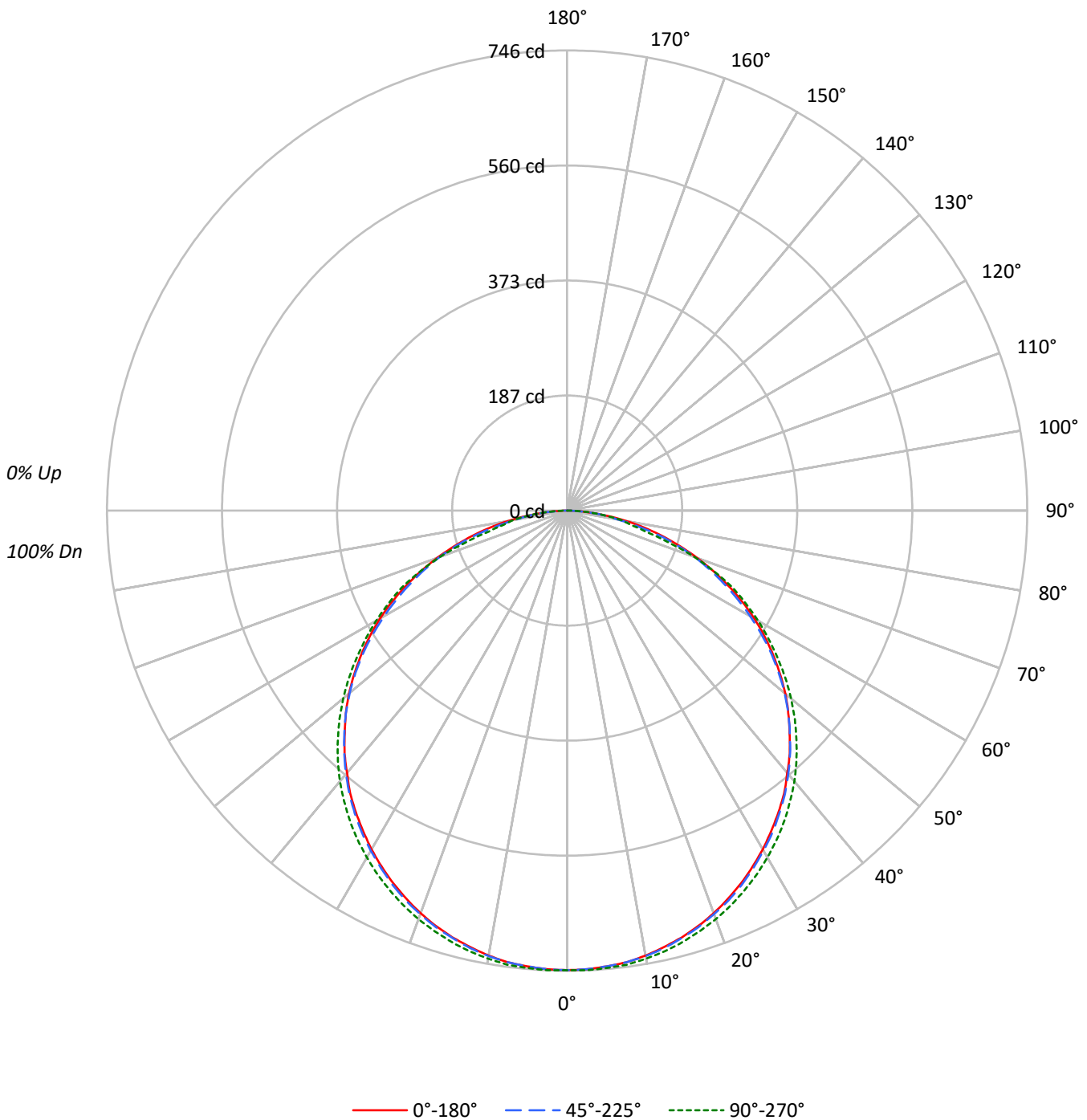
Lumens per Lamp: N/A  
Luminaire Lumens: 2207.1 lumens  
Efficiency: N/A  
Efficacy: 86.9 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 25.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	2005	2005	2005
5°	1995	1991	2002
10°	1984	1979	1998
15°	1970	1961	1991
20°	1954	1944	1982
25°	1935	1924	1972
30°	1915	1901	1961
35°	1895	1877	1949
40°	1872	1850	1931
45°	1848	1815	1906
50°	1825	1777	1872
55°	1784	1722	1824
60°	1735	1643	1772
65°	1657	1551	1705
70°	1552	1450	1516
75°	1398	1258	1156
80°	1176	929	1075
85°	727	645	758



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	70.6	3.2
10°-20°	203.0	9.2
20°-30°	309.5	14.0
30°-40°	377.2	17.1
40°-50°	396.8	18.0
50°-60°	364.2	16.5
60°-70°	282.4	12.8
70°-80°	159.3	7.2
80°-90°	44.1	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°	583.1	26.4
0°-40°	960.2	43.5
0°-60°	1721.3	78.0
0°-90°	2207.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2207.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	745	745	745	745	745	
5°	742	742	742	744	744	71
15°	716	716	717	722	724	202
25°	667	667	670	675	680	307
35°	597	598	600	608	614	374
45°	510	511	511	518	526	394
55°	407	406	404	409	417	364
65°	288	284	281	287	296	285
75°	160	158	153	137	132	169
85°	37	36	38	38	39	45
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	745.1	745.1	745.1	745.1	745.1
2.5°	744.2	744.2	744.2	745.9	745.9
5°	741.7	741.7	741.7	744.2	744.2
7.5°	738.4	738.4	738.4	740.9	742.6
10°	732.5	732.5	733.3	735.8	737.5
12.5°	724.9	724.9	726.6	730.0	731.6
15°	716.5	716.5	717.4	721.6	724.1
17.5°	706.4	705.6	708.1	712.3	714.8
20°	694.7	693.8	696.4	700.6	704.8
22.5°	681.2	681.2	683.8	688.8	693.0
25°	667.0	667.0	669.5	675.4	679.6
27.5°	651.0	651.0	653.5	661.1	665.3
30°	634.2	635.0	636.7	645.1	649.3
32.5°	615.7	617.4	619.1	627.5	632.5
35°	597.2	598.1	599.8	608.2	614.0
37.5°	577.9	577.1	579.6	588.0	593.9
40°	555.2	556.1	557.8	565.3	572.9
42.5°	534.2	533.4	535.1	542.6	550.2
45°	509.9	510.7	510.7	518.3	525.8
47.5°	486.4	486.4	486.4	493.1	500.6
50°	462.0	460.3	460.3	466.2	473.8
52.5°	435.1	433.4	432.6	439.3	446.0
55°	407.4	405.7	404.0	409.1	416.6
57.5°	379.7	377.2	373.8	378.8	387.2
60°	350.3	346.9	342.7	348.6	357.8
62.5°	320.0	315.8	311.6	318.4	326.8
65°	288.1	283.9	280.6	287.3	296.5
67.5°	256.2	252.0	250.3	255.4	258.7
70°	224.3	220.9	220.1	219.2	219.2
72.5°	191.5	189.0	187.3	178.9	173.9
75°	159.6	157.9	152.9	136.9	131.9
77.5°	128.5	126.8	116.8	104.2	105.0
80°	97.4	95.8	84.0	86.5	89.0
82.5°	66.4	64.7	62.2	63.0	63.0
85°	37.0	36.1	37.8	37.8	38.6
87.5°	15.1	15.1	16.0	16.8	17.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)