

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: P184372

Luminaire Tested: **ENW/ENC-24-2-LD1-34-40-CA125-UNV-EDC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P184372
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-LD1-34-40-CA125-UNV-EDC1
Description: FAIL-SAFE 2X2 ENCOUNTER W/ 0.125" THICK CLEAR ACRYLIC LENS
Light Source: 4000K LEDS
Ballast/Driver: -

Summary

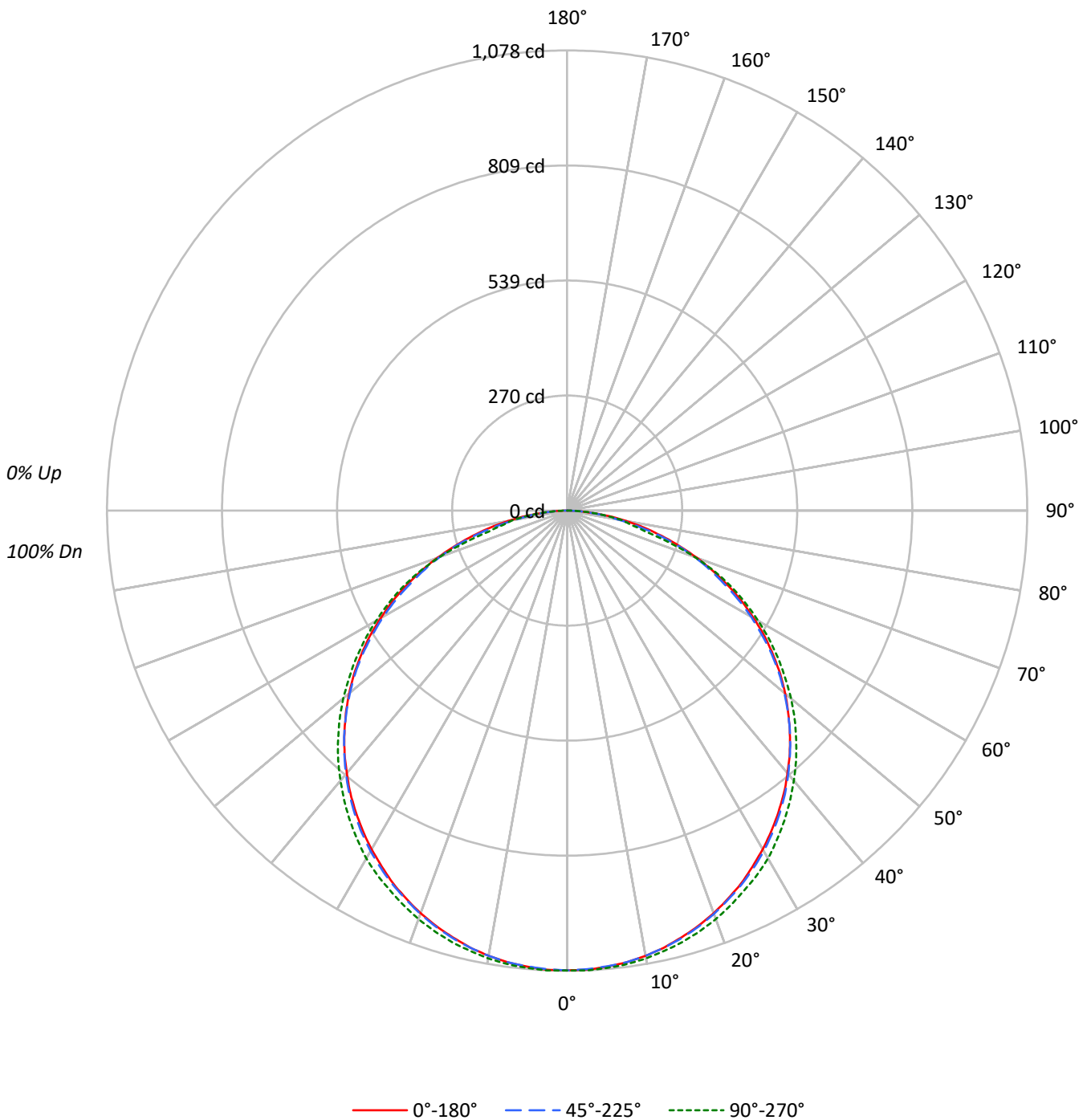
Lumens per Lamp: N/A
Luminaire Lumens: 3188.6 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.29 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.1')
CIE Type: Direct

Input Watts (W): 34.8
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	39	31	26	37	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2899	2899	2899
5°	2885	2877	2893
10°	2868	2858	2885
15°	2845	2835	2876
20°	2823	2807	2864
25°	2797	2779	2848
30°	2767	2749	2842
35°	2739	2715	2815
40°	2708	2672	2785
45°	2674	2626	2751
50°	2635	2565	2704
55°	2578	2489	2643
60°	2502	2386	2561
65°	2391	2243	2455
70°	2234	2091	2202
75°	2007	1824	1669
80°	1689	1333	1566
85°	1031	910	1102



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.1	3.2
10°-20°	293.2	9.2
20°-30°	447.2	14.0
30°-40°	544.9	17.1
40°-50°	573.1	18.0
50°-60°	526.3	16.5
60°-70°	408.4	12.8
70°-80°	230.1	7.2
80°-90°	63.1	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
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0°-30°	842.5	26.4
0°-40°	1387.5	43.5
0°-60°	2486.9	78.0
0°-90°	3188.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3188.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1077	1077	1077	1077	1077	
5°	1073	1073	1072	1076	1076	102
15°	1035	1036	1037	1042	1046	292
25°	964	964	967	976	982	444
35°	863	864	868	878	887	540
45°	738	737	739	750	759	569
55°	589	585	584	592	604	526
65°	416	412	406	415	427	411
75°	229	227	222	198	190	243
85°	52	51	53	54	56	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1077.3	1077.3	1077.3	1077.3	1077.3
2.5°	1076.4	1075.5	1075.5	1077.3	1078.2
5°	1072.7	1072.7	1071.8	1075.5	1075.5
7.5°	1067.2	1066.3	1067.2	1070.9	1071.8
10°	1058.9	1058.0	1058.9	1062.6	1065.3
12.5°	1048.8	1048.8	1048.8	1053.4	1056.1
15°	1035.0	1035.9	1036.8	1042.3	1046.0
17.5°	1020.3	1020.3	1022.1	1028.5	1033.1
20°	1003.7	1003.7	1005.5	1012.9	1018.4
22.5°	984.4	985.3	986.2	995.4	1000.9
25°	964.1	964.1	966.9	976.1	981.6
27.5°	940.2	942.1	944.8	954.9	963.2
30°	916.3	917.2	920.9	931.0	941.1
32.5°	890.5	891.5	895.1	905.3	914.5
35°	862.9	863.9	867.5	877.7	886.9
37.5°	834.4	834.4	838.1	849.1	857.4
40°	803.1	803.1	805.9	816.9	826.1
42.5°	771.9	770.0	772.8	783.8	793.9
45°	737.8	736.9	738.7	749.8	759.0
47.5°	702.9	701.9	701.9	712.1	723.1
50°	667.0	664.2	664.2	673.4	684.5
52.5°	629.3	625.6	625.6	633.9	644.0
55°	588.8	585.1	584.2	591.5	603.5
57.5°	548.3	543.7	540.9	548.3	561.2
60°	505.1	501.4	497.7	504.1	517.0
62.5°	461.8	457.2	451.7	460.0	471.9
65°	415.8	412.1	405.7	414.9	426.9
67.5°	369.9	366.1	361.5	368.0	375.3
70°	322.9	320.1	317.4	316.5	318.3
72.5°	275.1	273.3	271.4	259.5	253.9
75°	229.1	227.3	221.7	197.8	190.5
77.5°	184.0	183.1	168.3	150.9	152.7
80°	139.9	137.1	120.5	125.1	129.7
82.5°	97.5	92.0	88.3	90.1	92.0
85°	52.5	50.6	53.3	54.3	56.1
87.5°	21.1	21.1	23.0	24.9	24.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)