

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: P184377

Luminaire Tested: **ENW/ENC-24-2-LD1-39-40-CP125-UNV-EDC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P184377
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-LD1-39-40-CP125-UNV-EDC1
Description: FAIL-SAFE 2X2 ENCOUNTER W/ 0.125" THICK CLEAR POLY LENS
Light Source: 4000K LEDS
Ballast/Driver: -

Summary

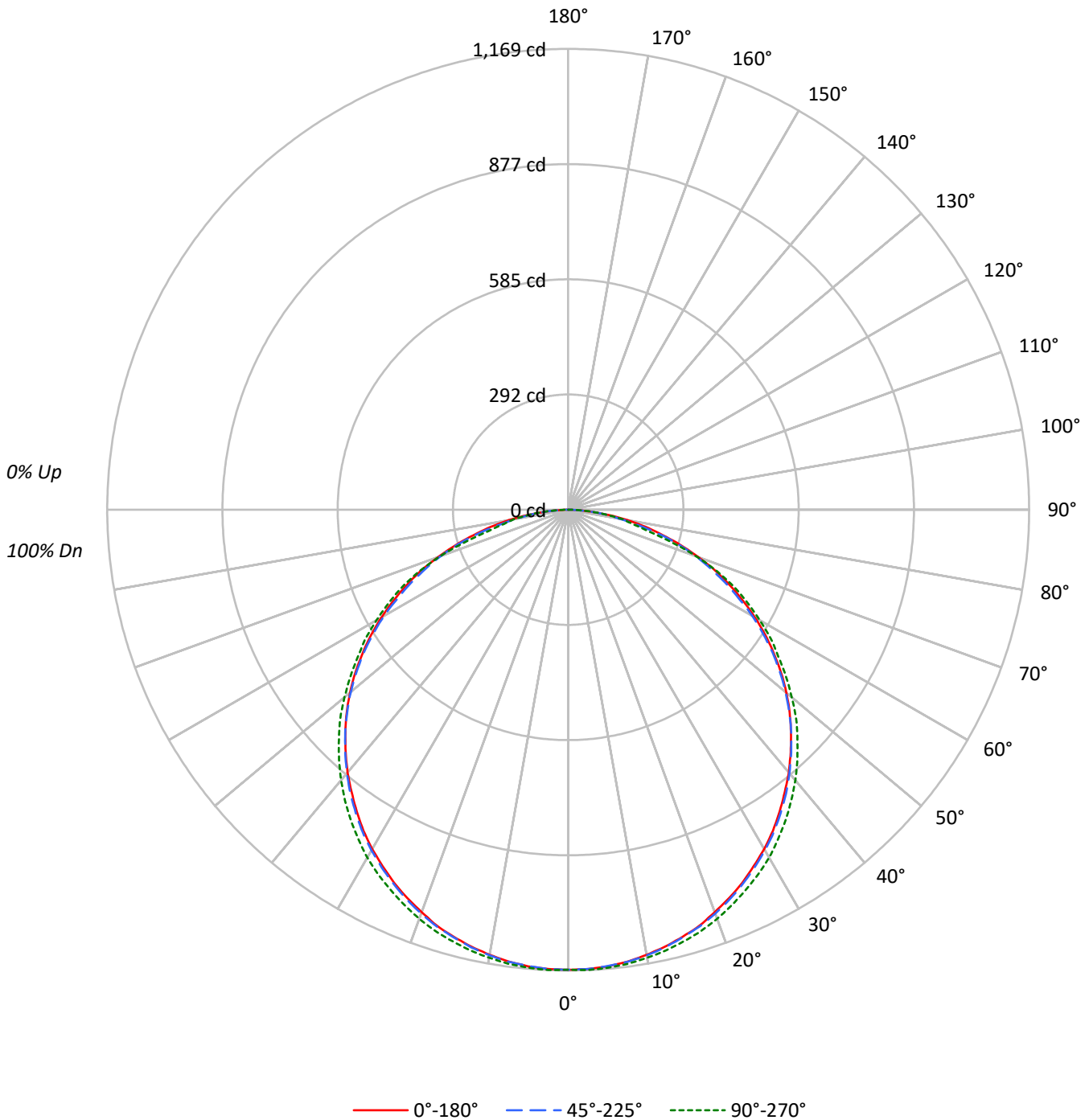
Lumens per Lamp: N/A
Luminaire Lumens: 3455.1 lumens
Efficiency: N/A
Efficacy: 83.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.29 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.1')
CIE Type: Direct

Input Watts (W): 41.6
Input Voltage (V): NR
Input Current (A_{in}): 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°	3140	3140	3140
5°	3127	3119	3136
10°	3105	3099	3126
15°	3083	3071	3116
20°	3055	3044	3106
25°	3029	3011	3089
30°	3002	2978	3078
35°	2967	2939	3052
40°	2934	2895	3021
45°	2896	2843	2980
50°	2854	2779	2925
55°	2790	2697	2851
60°	2709	2585	2777
65°	2596	2429	2675
70°	2427	2261	2398
75°	2178	1967	1831
80°	1838	1446	1693
85°	1098	1014	1183



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.6	3.2
10°-20°	317.8	9.2
20°-30°	484.5	14.0
30°-40°	590.3	17.1
40°-50°	620.9	18.0
50°-60°	570.5	16.5
60°-70°	442.7	12.8
70°-80°	249.1	7.2
80°-90°	68.8	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°	912.9	26.4
0°-40°	1503.2	43.5
0°-60°	2694.5	78.0
0°-90°	3455.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3455.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1167	1167	1167	1167	1167	
5°	1163	1162	1162	1165	1166	110
15°	1122	1122	1123	1130	1134	317
25°	1044	1044	1048	1057	1065	481
35°	935	935	939	951	962	585
45°	799	798	800	812	822	617
55°	637	636	633	641	651	570
65°	452	446	439	451	465	446
75°	249	247	239	213	209	264
85°	56	56	59	59	60	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1167.0	1167.0	1167.0	1167.0	1167.0
2.5°	1166.1	1165.3	1166.1	1167.9	1168.8
5°	1162.7	1161.8	1161.8	1165.3	1166.1
7.5°	1155.9	1155.0	1156.7	1159.3	1161.8
10°	1146.4	1146.4	1148.1	1151.6	1154.1
12.5°	1135.2	1135.2	1136.9	1142.1	1145.5
15°	1121.5	1121.5	1123.1	1130.1	1133.5
17.5°	1106.8	1105.1	1108.6	1114.5	1120.6
20°	1086.2	1087.1	1090.5	1097.3	1104.3
22.5°	1066.4	1066.4	1069.9	1078.5	1085.3
25°	1044.1	1044.1	1047.5	1057.0	1064.7
27.5°	1019.1	1019.9	1023.4	1033.7	1043.2
30°	994.1	995.0	997.6	1009.7	1019.1
32.5°	965.8	965.8	970.1	981.2	990.7
35°	934.8	934.8	939.1	951.1	961.5
37.5°	902.2	903.0	907.3	918.5	929.6
40°	870.3	869.4	872.9	885.0	896.1
42.5°	835.0	834.2	836.8	849.7	860.0
45°	799.0	798.1	799.8	811.9	822.1
47.5°	761.9	759.4	760.3	772.3	784.3
50°	722.4	720.7	719.8	730.2	740.4
52.5°	681.1	679.4	676.8	687.2	696.6
55°	637.2	636.4	632.9	640.7	651.0
57.5°	593.4	590.8	586.5	593.4	609.8
60°	546.9	543.5	539.2	546.1	560.7
62.5°	499.6	494.5	488.5	498.0	513.4
65°	451.5	446.4	439.4	450.7	465.2
67.5°	403.4	396.4	391.3	399.1	409.3
70°	350.9	345.7	343.2	341.4	346.6
72.5°	299.3	296.7	294.1	278.7	276.9
75°	248.6	246.8	239.1	213.3	209.0
77.5°	200.4	197.8	181.4	161.7	166.0
80°	152.2	149.7	130.7	134.1	140.2
82.5°	104.9	100.6	97.2	98.1	98.9
85°	55.9	55.9	59.4	59.4	60.2
87.5°	23.2	23.2	25.8	26.6	27.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)