

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: P184341

Luminaire Tested: **ENW/ENC-12-2-LD1-17-40-CP125-UNV-EDC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P184341
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-LD1-17-40-CP125-UNV-EDC1
Description: FAIL-SAFE 1X2 ENCOUNTER W/ 0.125" THICK CLEAR POLY LENS
Light Source: 4000K LEDS
Ballast/Driver: -

Summary

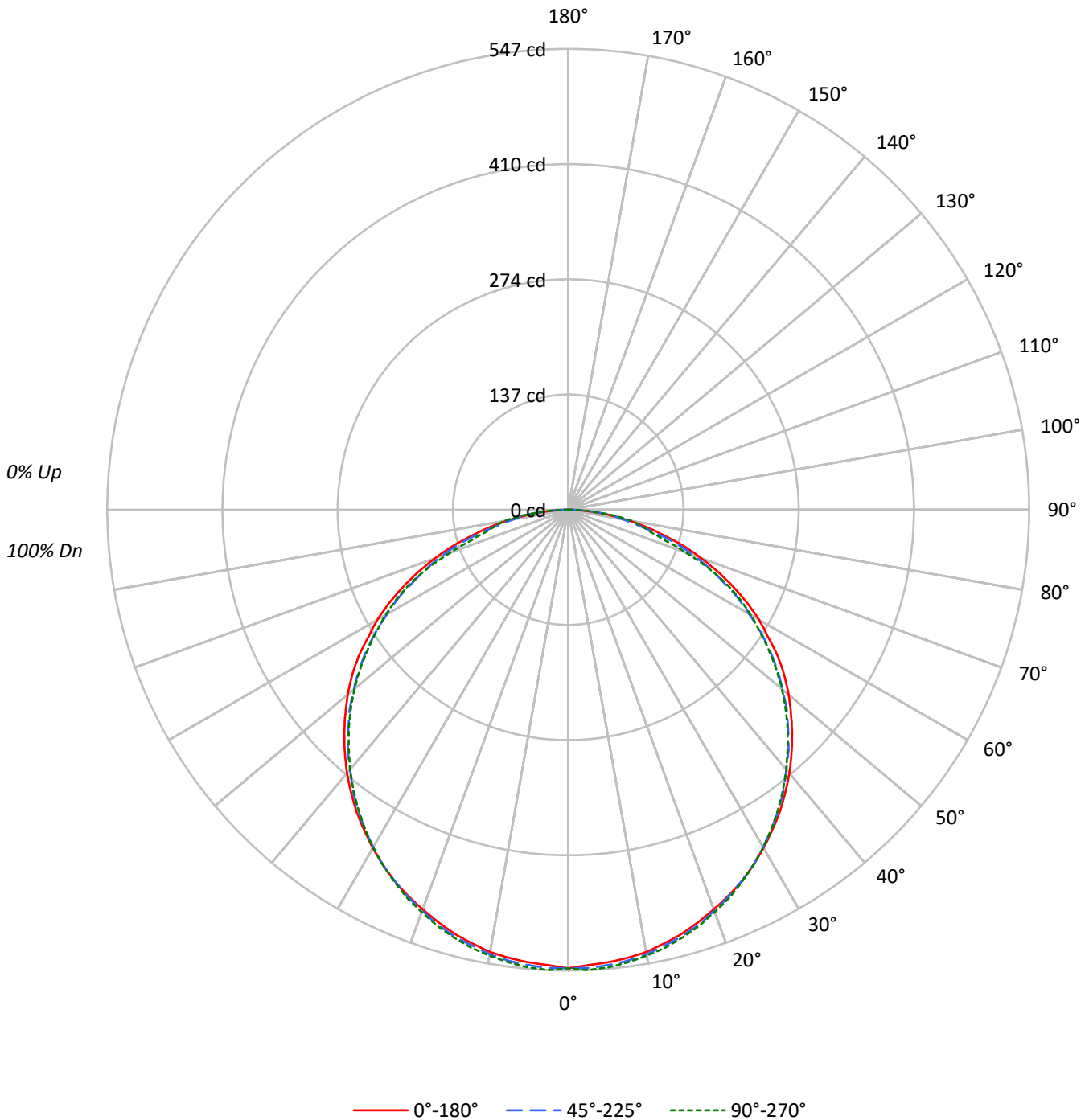
Lumens per Lamp: N/A
Luminaire Lumens: 1602.9 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.26 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 2' x H: 0.1')
CIE Type: Direct

Input Watts (W): 18.8
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	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	68	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	45	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	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	37	30	25	36	30	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2930	2930	2930
5°	2900	2904	2920
10°	2888	2874	2887
15°	2865	2838	2851
20°	2839	2794	2808
25°	2824	2754	2767
30°	2800	2710	2719
35°	2779	2661	2667
40°	2754	2597	2609
45°	2724	2539	2547
50°	2698	2467	2477
55°	2659	2383	2387
60°	2590	2261	2296
65°	2482	2105	2164
70°	2320	1939	1837
75°	2064	1627	1510
80°	1724	1264	1515
85°	1183	960	968



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.6	3.2
10°-20°	147.7	9.2
20°-30°	224.3	14.0
30°-40°	272.3	17.0
40°-50°	285.8	17.8
50°-60°	263.2	16.4
60°-70°	204.5	12.8
70°-80°	116.8	7.3
80°-90°	36.7	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°	423.6	26.4
0°-40°	695.9	43.4
0°-60°	1244.8	77.7
0°-90°	1602.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1602.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	544	544	544	544	544	
5°	539	541	543	544	545	51
15°	521	522	524	525	525	147
25°	487	486	487	487	488	224
35°	438	437	435	434	434	274
45°	376	374	369	366	368	290
55°	304	300	292	290	291	271
65°	216	212	203	205	206	213
75°	118	115	109	99	100	125
85°	30	31	34	34	34	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	544.4	544.4	544.4	544.4	544.4
2.5°	541.0	542.6	544.4	546.1	546.9
5°	539.2	541.0	542.6	544.4	545.3
7.5°	536.7	537.5	540.1	541.8	541.8
10°	533.2	533.2	535.8	537.5	537.5
12.5°	527.2	528.1	529.7	531.5	532.4
15°	521.1	522.0	523.8	524.6	525.4
17.5°	513.4	514.3	516.0	516.8	517.7
20°	504.8	505.7	506.6	507.4	508.2
22.5°	496.2	496.2	497.1	498.0	498.8
25°	486.7	485.9	486.7	486.7	487.6
27.5°	475.6	475.6	475.6	474.7	475.6
30°	463.6	463.6	462.7	461.8	462.7
32.5°	450.7	450.7	448.9	448.0	448.9
35°	437.8	436.9	435.1	434.3	434.3
37.5°	423.1	421.4	419.7	417.9	418.8
40°	408.5	406.8	402.5	400.7	402.5
42.5°	392.1	390.5	387.0	384.4	385.3
45°	375.8	374.1	369.0	366.3	368.1
47.5°	358.6	356.9	351.8	349.1	350.0
50°	341.4	338.0	331.9	329.4	331.1
52.5°	323.3	319.9	313.1	309.6	311.3
55°	303.6	300.2	292.4	289.8	290.7
57.5°	281.2	279.5	270.9	268.3	270.1
60°	261.5	257.2	248.6	247.7	250.2
62.5°	239.1	233.9	227.1	226.2	229.6
65°	215.8	211.5	202.9	204.7	206.4
67.5°	191.8	187.5	180.6	180.6	178.9
70°	167.7	162.6	159.1	151.3	148.8
72.5°	143.6	139.3	135.0	122.1	120.4
75°	117.8	115.3	109.2	98.9	99.7
77.5°	94.6	93.8	84.3	84.3	88.6
80°	71.4	71.4	65.3	73.1	76.6
82.5°	49.9	48.1	53.3	55.9	56.7
85°	30.1	30.9	34.4	33.6	33.6
87.5°	12.9	13.7	14.6	14.6	14.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)