

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: P184321

Luminaire Tested: **ENW/ENC-12-2-LD1-17-40-CA080-UNV-EDC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P184321
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-CA080-UNV-EDC1
Description: FAIL-SAFE 1X2 ENCOUNTER W/ 0.080" THICK CLEAR ACRYLIC LENS
Light Source: 4000K LEDS
Ballast/Driver: -

Summary

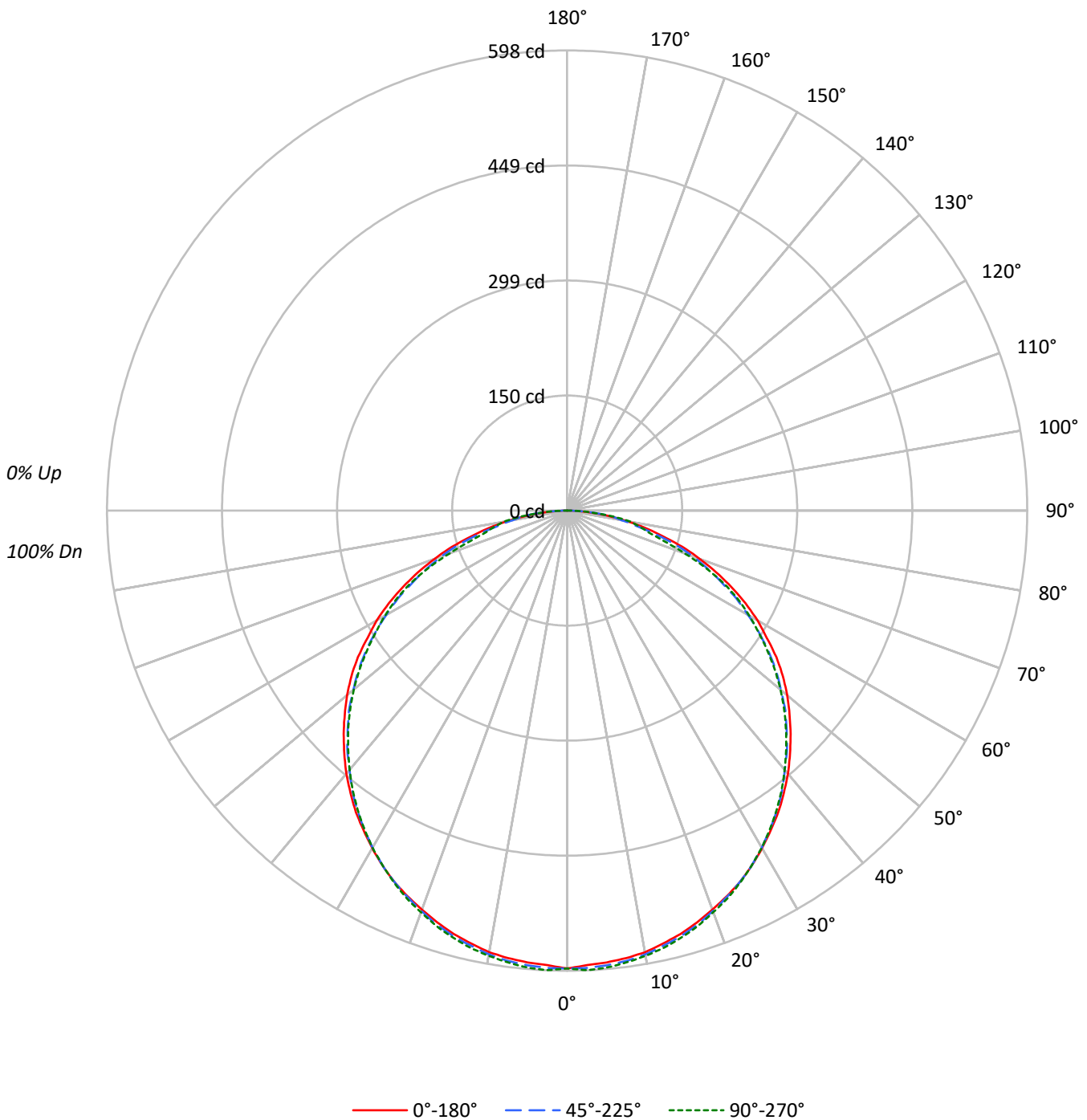
Lumens per Lamp: N/A
Luminaire Lumens: 1752.0 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.26 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 1' x H: 0.1')
CIE Type: Direct

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°	3202	3202	3202
5°	3157	3175	3206
10°	3130	3142	3183
15°	3091	3102	3158
20°	3049	3053	3125
25°	3018	3010	3093
30°	2977	2961	3055
35°	2938	2909	3013
40°	2894	2838	2966
45°	2842	2775	2916
50°	2792	2697	2860
55°	2724	2604	2782
60°	2622	2471	2709
65°	2474	2301	2595
70°	2263	2119	2250
75°	1950	1779	1910
80°	1543	1382	2021
85°	948	1049	1442



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.4	3.2
10°-20°	161.4	9.2
20°-30°	245.2	14.0
30°-40°	297.6	17.0
40°-50°	312.4	17.8
50°-60°	287.7	16.4
60°-70°	223.5	12.8
70°-80°	127.7	7.3
80°-90°	40.1	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°	463.0	26.4
0°-40°	760.6	43.4
0°-60°	1360.6	77.7
0°-90°	1752.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1752.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	595	595	595	595	595	
5°	589	591	593	595	596	56
15°	570	571	572	573	574	161
25°	532	531	532	532	533	245
35°	478	478	476	475	475	299
45°	411	409	403	400	402	317
55°	332	328	320	317	318	296
65°	236	231	222	224	226	233
75°	129	126	119	108	109	137
85°	33	34	38	37	37	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	595.0	595.0	595.0	595.0	595.0
2.5°	591.3	593.1	595.0	596.9	597.8
5°	589.4	591.3	593.1	595.0	596.0
7.5°	586.6	587.5	590.3	592.2	592.2
10°	582.8	582.8	585.6	587.5	587.5
12.5°	576.2	577.2	579.0	580.9	581.9
15°	569.6	570.6	572.5	573.4	574.3
17.5°	561.2	562.1	564.0	564.9	565.9
20°	551.8	552.7	553.7	554.6	555.5
22.5°	542.4	542.4	543.3	544.3	545.2
25°	532.0	531.1	532.0	532.0	533.0
27.5°	519.8	519.8	519.8	518.9	519.8
30°	506.7	506.7	505.7	504.8	505.7
32.5°	492.6	492.6	490.7	489.7	490.7
35°	478.5	477.5	475.6	474.7	474.7
37.5°	462.5	460.6	458.7	456.8	457.8
40°	446.5	444.6	439.9	438.0	439.9
42.5°	428.6	426.8	423.0	420.2	421.1
45°	410.8	408.9	403.3	400.4	402.3
47.5°	392.0	390.1	384.5	381.6	382.6
50°	373.2	369.4	362.8	360.0	361.9
52.5°	353.4	349.7	342.2	338.4	340.3
55°	331.8	328.1	319.6	316.8	317.7
57.5°	307.4	305.5	296.1	293.3	295.2
60°	285.8	281.1	271.7	270.7	273.5
62.5°	261.3	255.7	248.2	247.2	251.0
65°	235.9	231.2	221.8	223.7	225.6
67.5°	209.6	204.9	197.4	197.4	195.5
70°	183.3	177.7	173.9	165.4	162.6
72.5°	157.0	152.3	147.6	133.5	131.6
75°	128.8	126.0	119.4	108.1	109.0
77.5°	103.4	102.5	92.1	92.1	96.8
80°	78.0	78.0	71.4	79.9	83.7
82.5°	54.5	52.6	58.3	61.1	62.0
85°	32.9	33.8	37.6	36.7	36.7
87.5°	14.1	15.0	16.0	16.0	16.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)