

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: P184322

Luminaire Tested: **ENW/ENC-12-2-LD1-27-40-CA080-UNV-EDC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P184322
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-LD1-27-40-CA080-UNV-EDC1
Description: FAIL-SAFE 1X2 ENCOUNTER W/ 0.080" THICK ACRYLIC LENS
Light Source: 4000K LEDS
Ballast/Driver: -

Summary

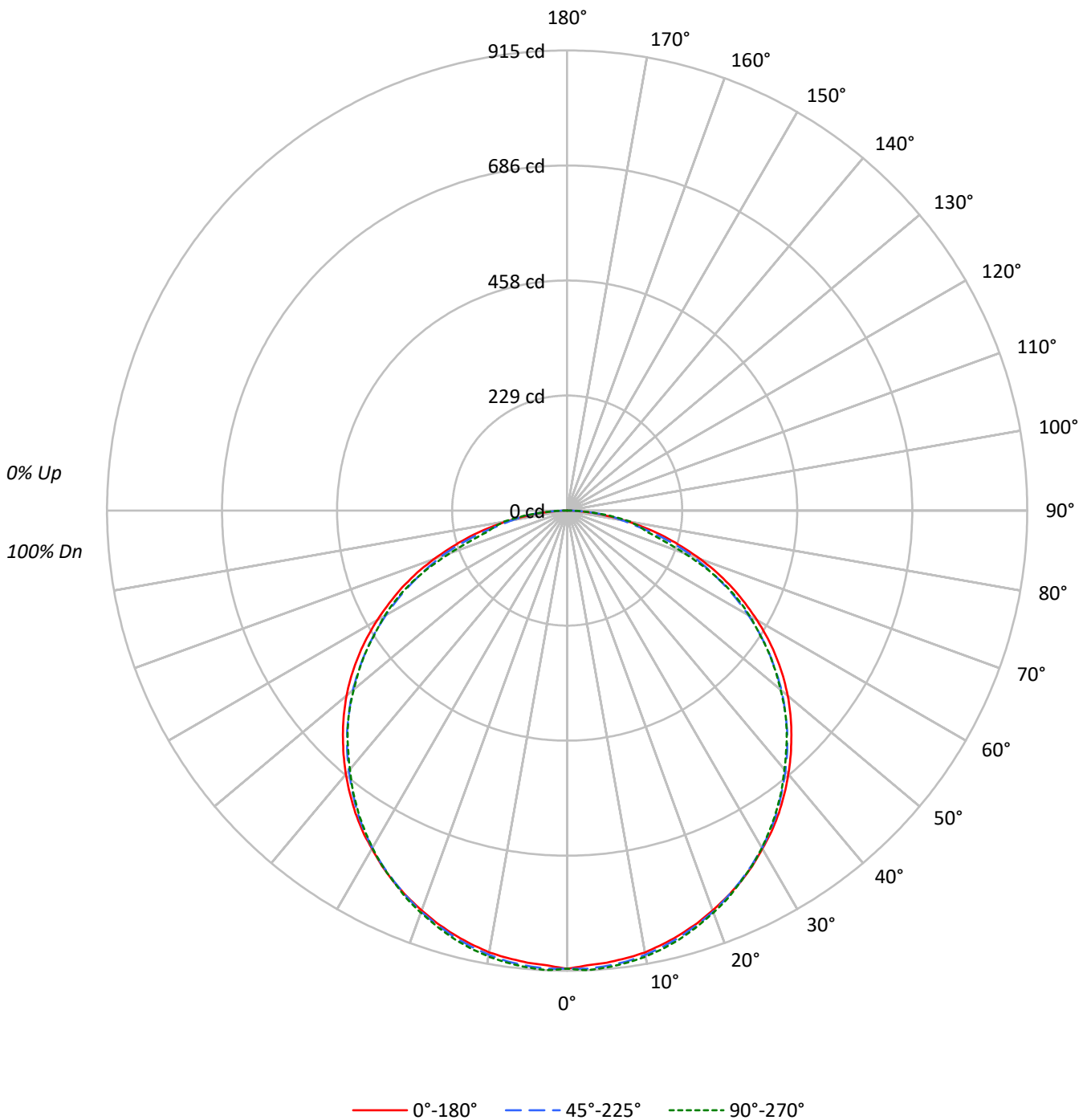
Lumens per Lamp: N/A
Luminaire Lumens: 2683.2 lumens
Efficiency: N/A
Efficacy: 91.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.26 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 1' x H: 0.1')
CIE Type: Direct

Input Watts (W): 29.4
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

TEST NUMBER: P184322

CATALOG NUMBER: ENW/ENC-12-2-LD1-27-40-CA080-UNV-EDC1

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	104	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°	4902	4902	4902
5°	4833	4866	4905
10°	4791	4811	4878
15°	4733	4747	4837
20°	4675	4681	4785
25°	4624	4606	4729
30°	4562	4536	4679
35°	4508	4455	4612
40°	4435	4354	4532
45°	4364	4256	4477
50°	4283	4137	4375
55°	4168	3983	4273
60°	4002	3786	4153
65°	3795	3531	3957
70°	3470	3241	3420
75°	3032	2702	2899
80°	2361	2129	3086
85°	1409	1574	2252



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.3	3.2
10°-20°	247.2	9.2
20°-30°	375.7	14.0
30°-40°	456.0	17.0
40°-50°	478.7	17.8
50°-60°	440.5	16.4
60°-70°	342.3	12.8
70°-80°	195.4	7.3
80°-90°	61.0	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°	709.2	26.4
0°-40°	1165.2	43.4
0°-60°	2084.4	77.7
0°-90°	2683.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2683.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	911	911	911	911	911	
5°	902	905	909	912	912	86
15°	872	873	876	878	880	246
25°	815	815	814	816	815	376
35°	734	731	728	727	727	459
45°	631	626	618	614	618	487
55°	508	501	489	486	488	453
65°	362	353	340	344	344	357
75°	200	193	181	167	165	211
85°	49	51	56	56	57	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	910.9	910.9	910.9	910.9	910.9
2.5°	905.2	908.0	911.8	914.6	914.6
5°	902.4	905.2	909.0	911.8	911.8
7.5°	897.7	900.5	904.3	906.2	907.1
10°	892.1	893.0	896.8	899.6	900.5
12.5°	882.7	883.6	887.4	889.2	891.1
15°	872.3	873.3	876.1	878.0	879.8
17.5°	860.1	861.0	862.9	864.8	865.7
20°	846.0	846.9	848.8	849.8	850.7
22.5°	831.0	831.9	831.9	833.8	834.7
25°	815.0	815.0	814.0	815.9	815.0
27.5°	797.1	796.2	795.2	795.2	796.2
30°	776.4	775.5	774.6	774.6	774.6
32.5°	756.7	753.9	752.9	751.1	751.1
35°	734.1	731.3	728.5	726.6	726.6
37.5°	709.7	706.9	702.2	699.4	700.3
40°	684.3	681.5	674.9	672.1	672.1
42.5°	658.0	654.2	647.7	643.9	644.8
45°	630.7	626.0	618.5	613.8	617.6
47.5°	602.5	596.9	587.5	583.7	587.5
50°	572.5	566.8	556.5	551.8	553.7
52.5°	541.4	534.9	522.6	519.8	521.7
55°	507.6	501.0	488.8	486.0	487.9
57.5°	472.8	467.2	453.1	449.3	452.1
60°	436.2	429.6	416.4	414.5	419.2
62.5°	398.6	392.0	378.8	379.8	383.5
65°	361.9	353.4	340.3	344.0	344.0
67.5°	322.4	314.0	302.7	300.8	297.0
70°	281.1	274.5	266.0	253.8	247.2
72.5°	239.7	233.1	225.6	204.9	201.2
75°	200.2	192.7	181.4	167.3	165.4
77.5°	159.8	155.1	141.0	141.0	146.6
80°	119.4	117.5	110.0	122.2	127.8
82.5°	80.8	79.9	88.4	93.1	93.1
85°	48.9	50.8	56.4	55.5	57.3
87.5°	20.7	23.5	24.4	25.4	25.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)