

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: P184350

Luminaire Tested: **ENW/ENC-12-2-LD1-35-40-CP187-UNV-EDC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P184350
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-LD1-35-40-CP187-UNV-EDC1
Description: FAIL-SAFE 1X2 ENCOUNTER W/ 0.187" THICK POLY LENS
Light Source: 4000K LEDS
Ballast/Driver: -

Summary

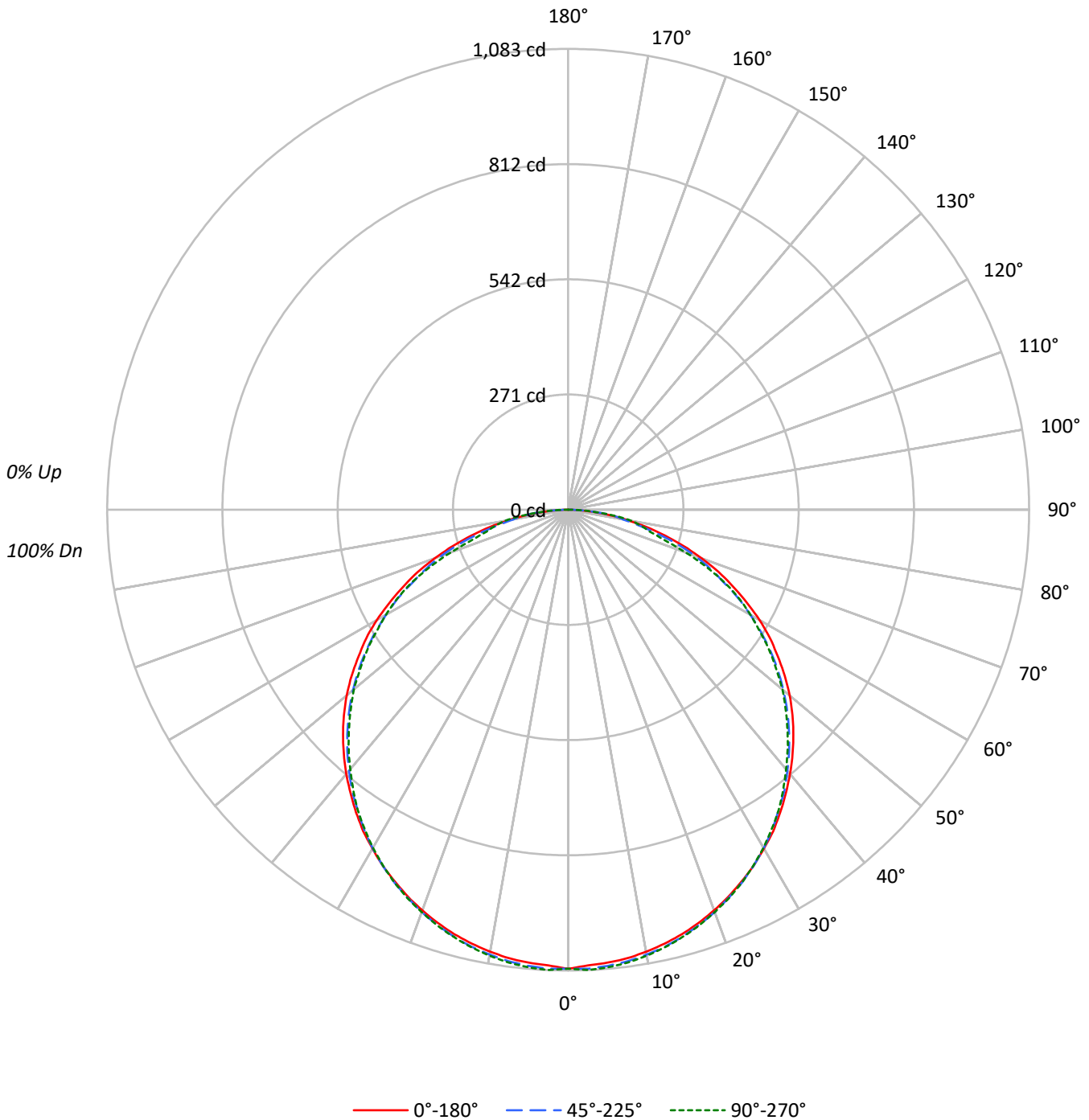
Lumens per Lamp: N/A
Luminaire Lumens: 3181.4 lumens
Efficiency: N/A
Efficacy: 77.6 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.26 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 2' x H: 0.1')
CIE Type: Direct

Input Watts (W): 41
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	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	67	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	34	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°	5806	5806	5806
5°	5747	5760	5781
10°	5714	5696	5715
15°	5678	5628	5641
20°	5637	5550	5562
25°	5594	5469	5484
30°	5555	5380	5389
35°	5514	5271	5292
40°	5468	5166	5163
45°	5422	5047	5041
50°	5367	4910	4915
55°	5263	4730	4739
60°	5144	4490	4539
65°	4917	4180	4260
70°	4610	3863	3619
75°	4141	3216	2998
80°	3429	2533	3010
85°	2307	1876	1936



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.2	3.2
10°-20°	292.7	9.2
20°-30°	445.0	14.0
30°-40°	540.3	17.0
40°-50°	567.9	17.9
50°-60°	522.7	16.4
60°-70°	405.7	12.8
70°-80°	232.2	7.3
80°-90°	72.8	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
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0°-30°	839.9	26.4
0°-40°	1380.2	43.4
0°-60°	2470.8	77.7
0°-90°	3181.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3181.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1079	1079	1079	1079	1079	
5°	1068	1071	1076	1080	1080	102
15°	1033	1034	1039	1040	1040	292
25°	964	964	966	966	966	445
35°	869	865	862	860	862	544
45°	748	743	734	729	728	577
55°	601	594	580	576	577	538
65°	428	420	403	406	406	423
75°	236	229	216	199	198	250
85°	59	60	67	69	67	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1078.7	1078.7	1078.7	1078.7	1078.7
2.5°	1071.8	1074.4	1079.5	1082.9	1082.9
5°	1068.5	1071.0	1076.1	1079.5	1079.5
7.5°	1063.3	1065.9	1070.2	1073.5	1073.5
10°	1054.8	1057.4	1061.7	1064.2	1064.2
12.5°	1044.7	1047.2	1051.5	1053.2	1053.2
15°	1032.7	1034.5	1038.7	1039.5	1039.5
17.5°	1018.3	1019.2	1023.4	1023.4	1024.2
20°	1002.2	1003.0	1006.4	1006.4	1006.4
22.5°	984.3	984.3	986.8	986.8	987.7
25°	963.9	963.9	966.5	965.6	966.5
27.5°	943.5	942.7	943.5	941.8	942.7
30°	919.7	919.7	918.8	917.2	917.2
32.5°	895.9	893.3	891.7	890.0	890.0
35°	868.7	865.3	861.9	860.2	861.9
37.5°	839.8	837.2	833.8	828.7	829.6
40°	810.9	808.3	800.7	796.5	796.5
42.5°	780.3	776.0	768.4	764.2	763.3
45°	748.0	742.9	733.5	729.3	728.5
47.5°	714.8	709.7	697.8	693.6	692.7
50°	679.2	673.2	660.5	656.2	657.0
52.5°	641.7	635.0	621.3	618.0	616.2
55°	601.0	594.2	580.5	576.3	577.2
57.5°	562.7	554.2	538.0	533.0	534.7
60°	519.3	509.2	493.8	491.3	494.7
62.5°	473.5	465.0	451.3	448.8	453.9
65°	427.5	419.9	402.9	406.3	406.3
67.5°	382.5	372.3	361.2	355.3	351.0
70°	333.2	323.8	317.0	300.0	293.2
72.5°	284.7	276.2	268.6	243.1	236.3
75°	236.3	228.7	215.9	198.9	198.0
77.5°	187.8	184.5	168.3	168.3	176.0
80°	142.0	141.1	130.9	145.3	152.2
82.5°	97.7	95.2	105.4	113.0	111.3
85°	58.7	59.5	67.2	68.8	67.2
87.5°	25.5	26.3	28.0	30.6	28.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)