

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: P184351

Luminaire Tested: **ENW/ENC-12-2-LD1-35-40-CP250-UNV-EDC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P184351
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-CP250-UNV-EDC1
Description: FAIL-SAFE 1X2 ENCOUNTER W/ 0.250" THICK POLY LENS
Light Source: 4000K LEDS
Ballast/Driver: -

Summary

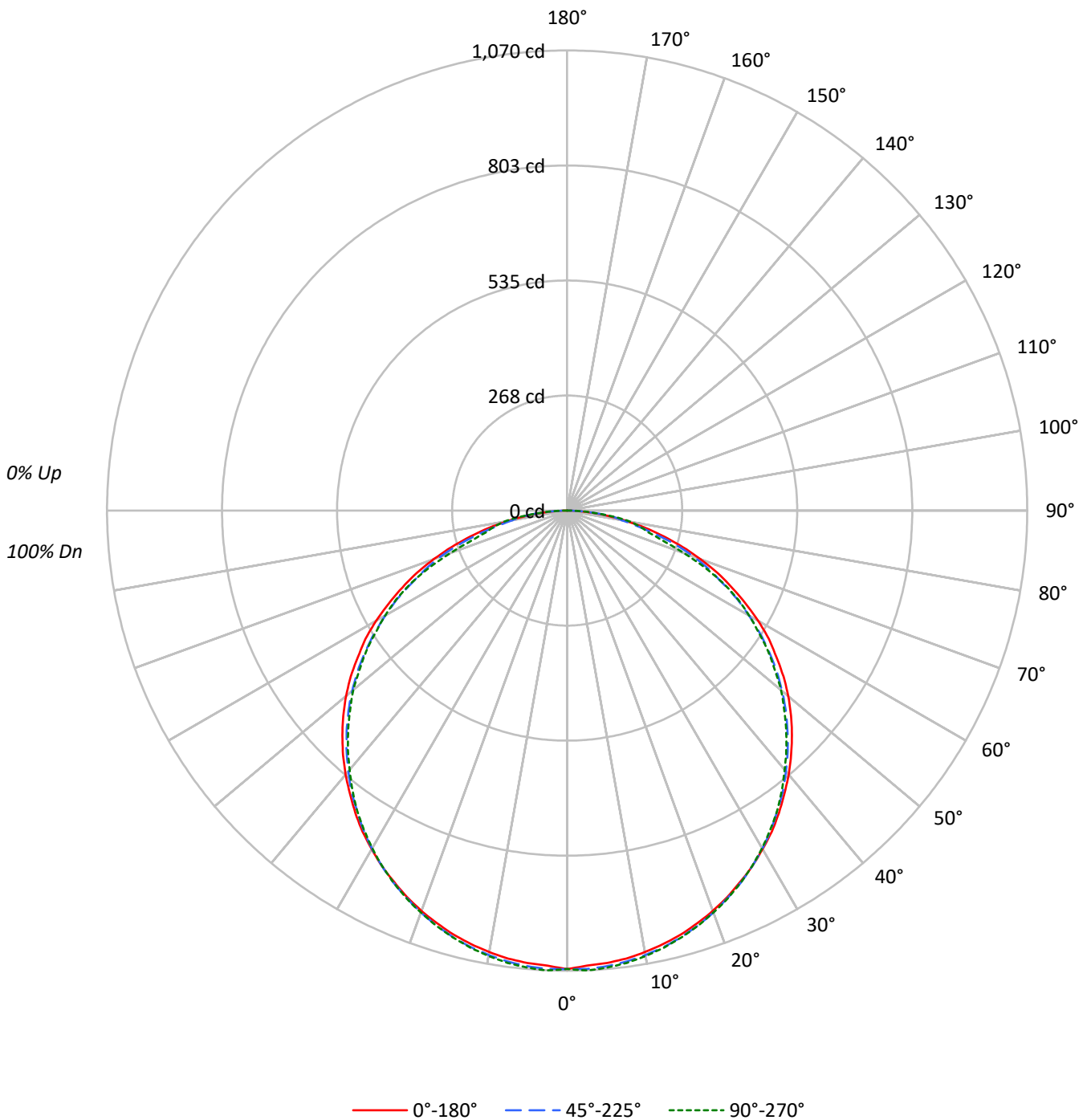
Lumens per Lamp: N/A
Luminaire Lumens: 3144.0 lumens
Efficiency: N/A
Efficacy: 76.7 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.26 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 2' x H: 0.1')
CIE Type: Direct

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

TEST NUMBER: P184351

CATALOG NUMBER: ENW/ENC-12-2-LD1-35-40-CP250-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	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°	5737	5737	5737
5°	5680	5692	5713
10°	5647	5629	5648
15°	5611	5561	5575
20°	5571	5485	5496
25°	5528	5404	5419
30°	5490	5317	5325
35°	5450	5210	5230
40°	5404	5105	5102
45°	5358	4988	4981
50°	5304	4852	4858
55°	5201	4675	4683
60°	5084	4438	4486
65°	4859	4131	4210
70°	4556	3818	3577
75°	4092	3179	2963
80°	3388	2504	2974
85°	2279	1853	1913



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.0	3.2
10°-20°	289.3	9.2
20°-30°	439.8	14.0
30°-40°	533.9	17.0
40°-50°	561.2	17.9
50°-60°	516.5	16.4
60°-70°	400.9	12.8
70°-80°	229.4	7.3
80°-90°	72.0	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°	830.0	26.4
0°-40°	1364.0	43.4
0°-60°	2441.7	77.7
0°-90°	3144.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3144.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1066	1066	1066	1066	1066	
5°	1056	1058	1063	1067	1067	100
15°	1021	1022	1026	1027	1027	288
25°	953	953	955	954	955	439
35°	858	855	852	850	852	537
45°	739	734	725	721	720	570
55°	594	587	574	570	570	532
65°	422	415	398	402	402	418
75°	234	226	213	197	196	247
85°	58	59	66	68	66	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1066.0	1066.0	1066.0	1066.0	1066.0
2.5°	1059.2	1061.8	1066.8	1070.2	1070.2
5°	1055.9	1058.4	1063.4	1066.8	1066.8
7.5°	1050.8	1053.4	1057.6	1060.9	1060.9
10°	1042.4	1045.0	1049.2	1051.7	1051.7
12.5°	1032.4	1034.9	1039.1	1040.8	1040.8
15°	1020.6	1022.3	1026.5	1027.3	1027.3
17.5°	1006.3	1007.2	1011.4	1011.4	1012.2
20°	990.4	991.2	994.6	994.6	994.6
22.5°	972.7	972.7	975.2	975.2	976.1
25°	952.6	952.6	955.1	954.2	955.1
27.5°	932.4	931.6	932.4	930.7	931.6
30°	908.9	908.9	908.0	906.4	906.4
32.5°	885.4	882.8	881.2	879.5	879.5
35°	858.5	855.1	851.8	850.1	851.8
37.5°	829.9	827.4	824.0	819.0	819.8
40°	801.4	798.8	791.3	787.1	787.1
42.5°	771.1	766.9	759.4	755.2	754.3
45°	739.2	734.2	724.9	720.7	719.9
47.5°	706.4	701.4	689.6	685.4	684.6
50°	671.2	665.3	652.7	648.5	649.3
52.5°	634.2	627.5	614.0	610.7	609.0
55°	593.9	587.2	573.7	569.5	570.4
57.5°	556.1	547.7	531.7	526.7	528.4
60°	513.2	503.2	488.0	485.5	488.9
62.5°	467.9	459.5	446.0	443.5	448.6
65°	422.5	415.0	398.2	401.5	401.5
67.5°	378.0	367.9	357.0	351.1	346.9
70°	329.3	320.0	313.3	296.5	289.8
72.5°	281.4	273.0	265.4	240.2	233.5
75°	233.5	226.0	213.4	196.6	195.7
77.5°	185.6	182.3	166.3	166.3	173.9
80°	140.3	139.4	129.4	143.6	150.4
82.5°	96.6	94.1	104.2	111.7	110.0
85°	58.0	58.8	66.4	68.0	66.4
87.5°	25.2	26.0	27.7	30.2	27.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)