

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: P184361

Luminaire Tested: **ENW/ENC-12-4-LD1-33-40-CP125-UNV-EDC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P184361
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P32842)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ENW/ENC-12-4-LD1-33-40-CP125-UNV-EDC1
Description: FAIL-SAFE 1X4 ENCOUNTER W/ 0.125" THICK CLEAR POLY LENS
Light Source: 4000K LEDS
Ballast/Driver: -

Summary

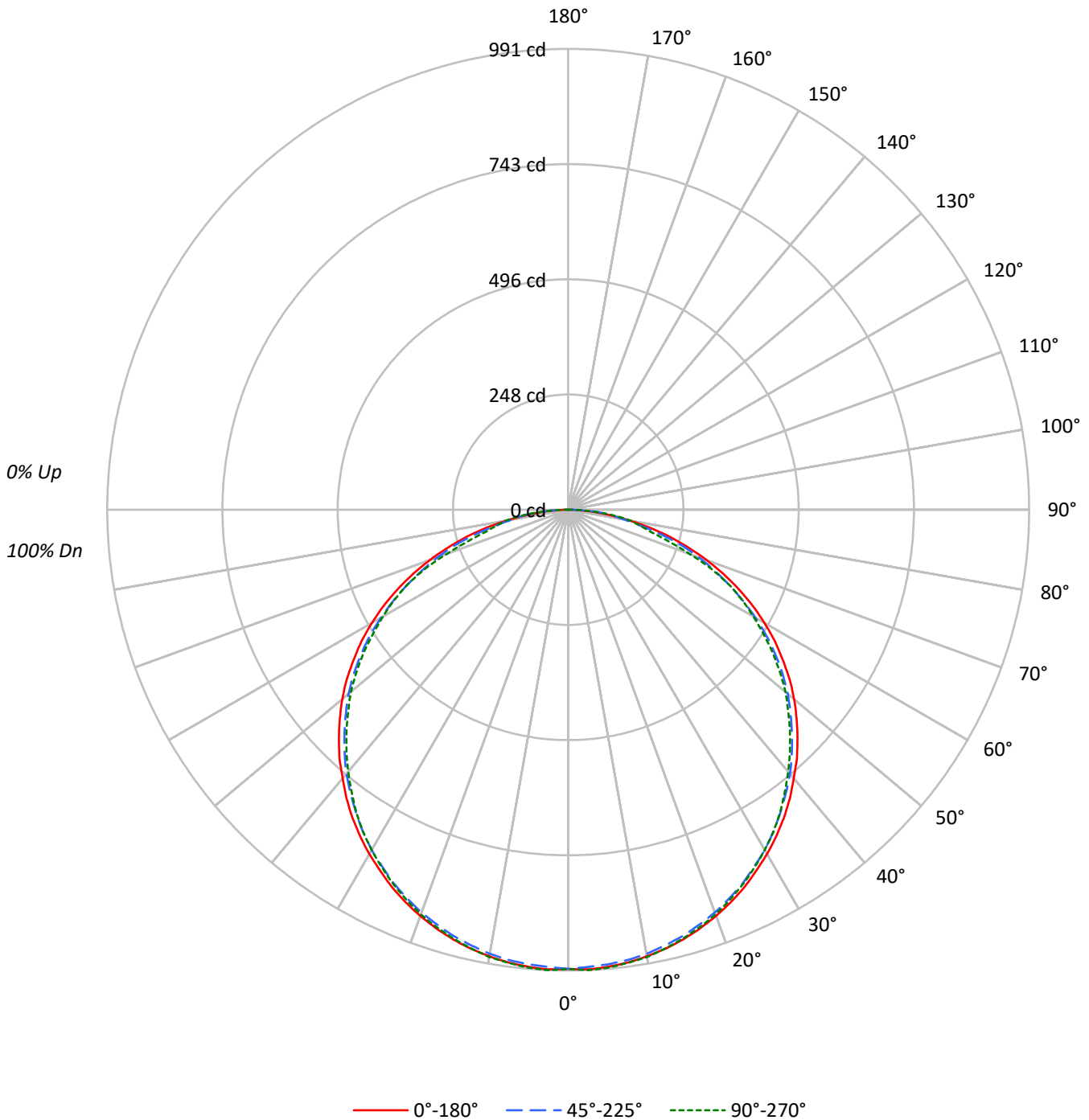
Lumens per Lamp: N/A
Luminaire Lumens: 2958.6 lumens
Efficiency: N/A
Efficacy: 88.6 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.27 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 33.4
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	93	97	94	90	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	65	61	69	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	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	39	51	44	39	50	43	39	37
7	64	50	41	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	41	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2657	2657	2657
5°	2660	2630	2647
10°	2653	2609	2623
15°	2647	2583	2590
20°	2638	2557	2559
25°	2629	2529	2521
30°	2619	2498	2482
35°	2611	2460	2439
40°	2595	2426	2384
45°	2589	2379	2332
50°	2577	2334	2282
55°	2549	2266	2205
60°	2513	2170	2108
65°	2443	2040	2003
70°	2327	1888	1715
75°	2160	1636	1383
80°	1813	1259	1356
85°	1242	1026	924



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.7	3.2
10°-20°	269.0	9.1
20°-30°	410.1	13.9
30°-40°	499.6	16.9
40°-50°	527.3	17.8
50°-60°	488.6	16.5
60°-70°	382.0	12.9
70°-80°	219.7	7.4
80°-90°	68.6	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°	772.7	26.1
0°-40°	1272.3	43.0
0°-60°	2288.2	77.3
0°-90°	2958.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2958.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	988	988	988	988	988	
5°	987	986	981	986	988	94
15°	956	954	949	953	955	270
25°	896	892	887	888	889	413
35°	809	803	795	793	794	506
45°	697	693	680	675	674	538
55°	563	558	544	537	537	504
65°	404	396	381	380	382	399
75°	227	216	209	187	183	238
85°	52	56	67	63	64	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	987.5	987.5	987.5	987.5	987.5
2.5°	989.4	988.4	984.0	988.4	991.1
5°	986.7	985.7	981.2	985.7	988.4
7.5°	982.2	981.2	976.8	981.2	983.1
10°	975.1	973.3	969.7	974.2	976.8
12.5°	967.0	964.4	959.9	964.4	966.1
15°	956.4	953.7	949.3	952.8	954.6
17.5°	943.9	941.2	935.9	939.5	941.2
20°	929.6	927.0	921.7	924.3	926.1
22.5°	913.7	910.1	904.7	905.6	908.2
25°	895.8	892.2	886.9	887.8	888.7
27.5°	875.3	871.8	865.5	866.4	867.3
30°	854.9	851.3	845.0	844.2	845.0
32.5°	832.6	828.1	821.0	819.2	821.0
35°	808.6	803.3	795.1	793.4	794.3
37.5°	782.7	778.3	768.5	765.9	764.9
40°	754.2	750.7	741.8	736.4	735.6
42.5°	727.4	722.1	711.5	707.0	705.3
45°	697.2	692.9	680.3	675.0	674.1
47.5°	666.0	660.7	648.3	642.9	641.2
50°	634.0	628.6	616.2	609.0	610.0
52.5°	600.2	594.0	581.4	574.4	573.5
55°	562.8	558.3	544.0	537.0	537.0
57.5°	527.2	520.0	505.8	497.8	497.8
60°	487.1	479.1	464.9	457.7	459.5
62.5°	447.0	439.9	423.0	419.4	422.1
65°	404.3	396.3	381.1	380.2	382.0
67.5°	360.6	351.8	338.4	337.5	333.9
70°	316.1	307.2	298.3	286.7	277.9
72.5°	270.7	263.6	256.4	233.3	225.3
75°	227.1	216.4	209.2	187.0	182.6
77.5°	179.9	175.5	160.3	152.3	156.7
80°	133.6	136.2	122.0	131.7	137.1
82.5°	89.9	93.5	98.0	105.1	104.1
85°	51.7	56.1	66.8	63.2	64.1
87.5°	22.2	27.6	28.5	27.6	28.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)