

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: P184355

Luminaire Tested: **ENW/ENC-12-4-LD1-25-40-CP250-UNV-EDC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P184355
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P32840)
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-LD1-25-40-CP250-UNV-EDC1
Description: FAIL-SAFE 1X4 ENCOUNTER W/ 0.250" THICK CLEAR POLY LENS
Light Source: 4000K LEDS
Ballast/Driver: CLUNVCC161023VD010

Summary

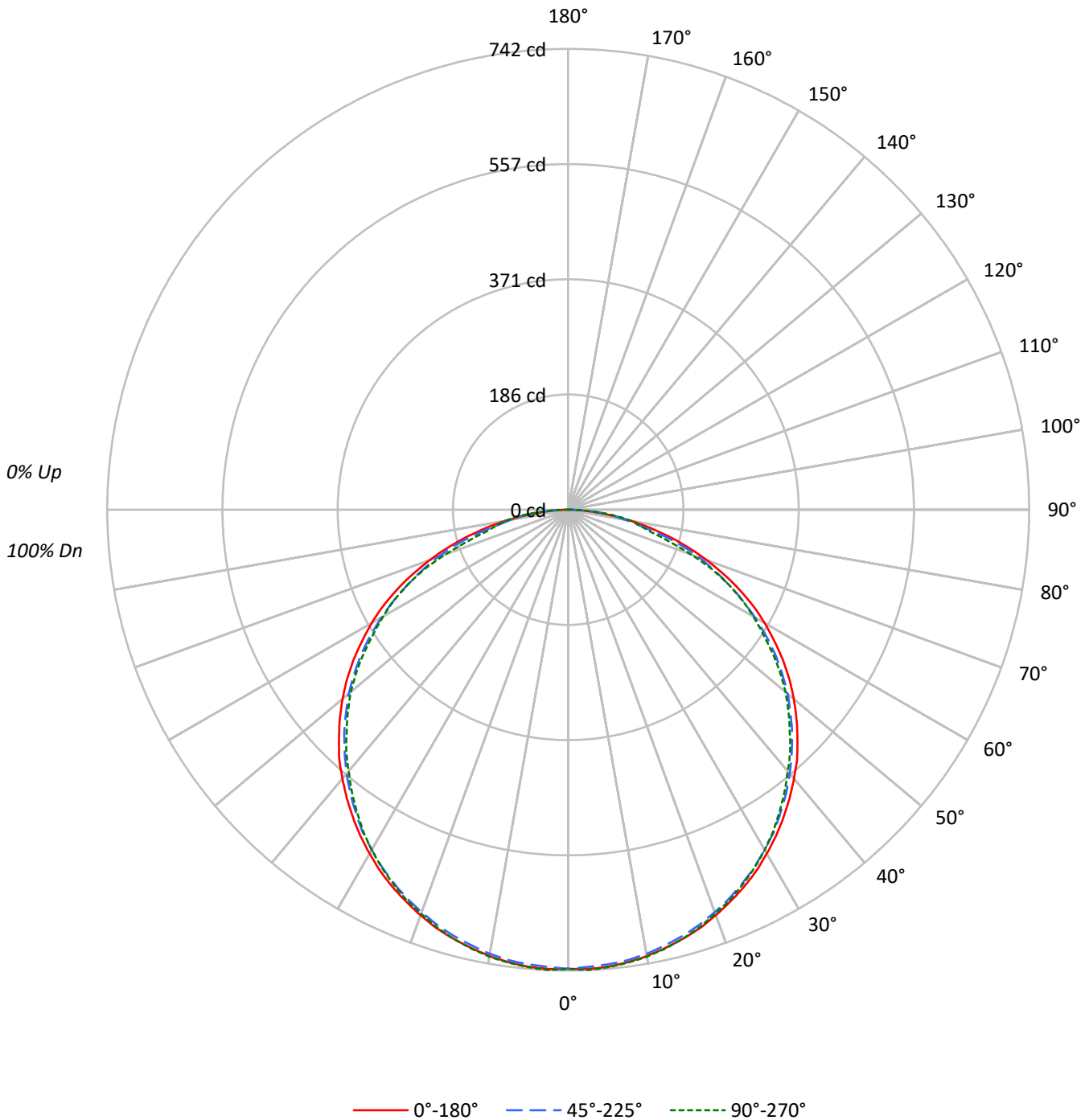
Lumens per Lamp: N/A
Luminaire Lumens: 2214.7 lumens
Efficiency: N/A
Efficacy: 88.6 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.27 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 25
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°	1989	1989	1989
5°	1991	1970	1980
10°	1985	1954	1962
15°	1978	1934	1940
20°	1972	1914	1913
25°	1966	1892	1888
30°	1958	1869	1857
35°	1951	1843	1821
40°	1945	1815	1782
45°	1938	1782	1745
50°	1927	1746	1708
55°	1911	1695	1646
60°	1884	1620	1580
65°	1835	1522	1491
70°	1748	1415	1293
75°	1604	1210	1040
80°	1369	942	1016
85°	958	762	689



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.1	3.2
10°-20°	201.4	9.1
20°-30°	307.1	13.9
30°-40°	374.0	16.9
40°-50°	394.8	17.8
50°-60°	365.5	16.5
60°-70°	285.8	12.9
70°-80°	164.2	7.4
80°-90°	51.8	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
0°-30°	578.6	26.1
0°-40°	952.6	43.0
0°-60°	1712.9	77.3
0°-90°	2214.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2214.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	739	739	739	739	739	
5°	738	738	735	738	739	70
15°	715	714	710	714	715	202
25°	670	668	664	665	665	309
35°	604	602	596	594	593	378
45°	522	518	510	506	504	403
55°	422	417	407	403	401	377
65°	304	296	284	284	284	300
75°	169	163	155	140	137	178
85°	40	43	50	48	48	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	739.3	739.3	739.3	739.3	739.3
2.5°	740.2	740.2	736.7	741.1	741.9
5°	738.5	737.5	734.9	738.5	739.3
7.5°	734.9	734.1	731.5	734.9	735.8
10°	729.7	728.8	726.2	729.7	730.6
12.5°	722.7	721.9	718.5	721.9	723.6
15°	714.9	714.1	710.5	714.1	714.9
17.5°	706.3	704.5	701.0	704.5	704.5
20°	695.0	693.2	689.7	692.3	692.3
22.5°	682.7	681.0	677.5	679.3	680.1
25°	669.8	668.0	663.6	665.4	665.4
27.5°	655.8	653.1	648.8	649.7	649.7
30°	639.2	636.6	632.3	633.2	632.3
32.5°	622.7	620.2	615.8	614.0	614.0
35°	604.4	601.8	595.8	594.1	593.2
37.5°	585.3	581.8	575.8	573.2	572.3
40°	565.3	561.0	554.9	552.2	549.7
42.5°	545.3	540.1	532.3	528.7	528.7
45°	521.9	518.4	509.7	506.1	504.4
47.5°	498.4	494.9	485.3	481.8	480.9
50°	474.0	470.6	461.0	456.6	456.6
52.5°	448.8	444.5	434.0	429.6	429.6
55°	421.9	416.6	407.0	402.7	401.0
57.5°	393.1	389.7	377.5	373.1	371.4
60°	365.3	359.1	347.0	342.7	344.4
62.5°	335.7	328.8	316.6	313.1	315.7
65°	303.6	295.7	284.4	283.5	284.4
67.5°	270.5	263.5	254.0	252.3	250.5
70°	237.4	230.5	223.5	213.9	209.5
72.5°	203.6	196.6	191.3	174.8	169.6
75°	168.7	162.6	154.8	140.0	137.4
77.5°	134.8	129.6	118.3	114.8	117.4
80°	100.9	100.9	91.3	99.1	102.7
82.5°	68.7	68.7	73.9	80.1	78.3
85°	39.9	42.6	49.6	47.8	47.8
87.5°	17.4	21.7	21.7	21.7	22.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)