

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: P184324

Luminaire Tested: **ENW/ENC-12-4-LD1-25-40-CA080-UNV-EDC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P184324
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-CA080-UNV-EDC1
Description: FAIL-SAFE 1X4 ENCOUNTER W/ 0.080" THICK CLEAR ACRYLIC LENS
Light Source: 4000K LEDS
Ballast/Driver: CLUNVCC161023VD010

Summary

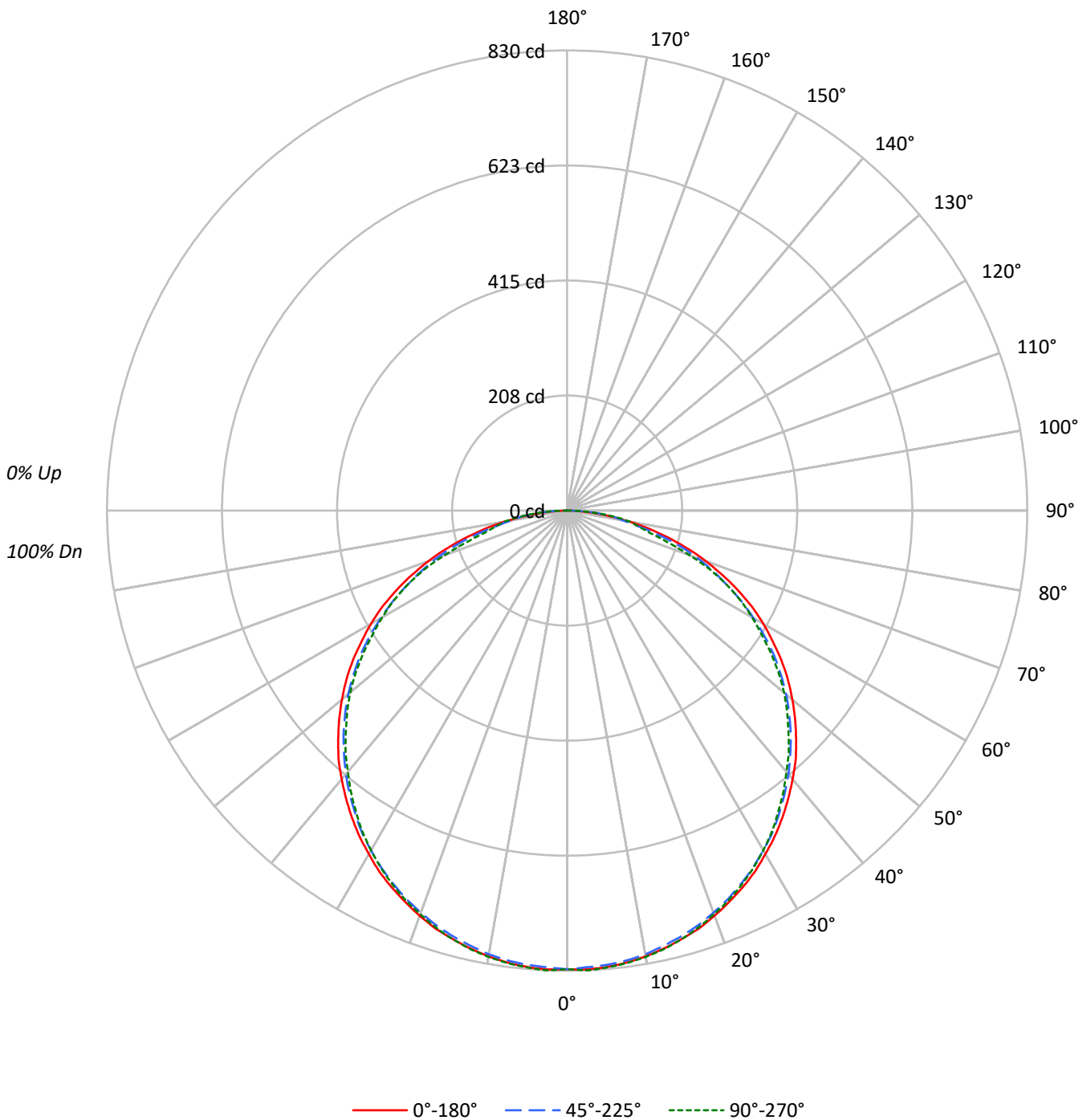
Lumens per Lamp: N/A
Luminaire Lumens: 2478.4 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.27 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 4' x L: 1' x H: 0.1')
CIE Type: Direct

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°	2226	2226	2226
5°	2213	2204	2230
10°	2193	2187	2224
15°	2171	2164	2214
20°	2149	2141	2198
25°	2126	2118	2185
30°	2101	2092	2167
35°	2077	2063	2143
40°	2050	2031	2116
45°	2020	1994	2096
50°	1984	1954	2077
55°	1938	1897	2033
60°	1875	1812	1988
65°	1781	1704	1924
70°	1640	1583	1726
75°	1429	1354	1463
80°	1116	1055	1559
85°	644	852	1285



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.5	3.2
10°-20°	225.4	9.1
20°-30°	343.6	13.9
30°-40°	418.5	16.9
40°-50°	441.8	17.8
50°-60°	409.1	16.5
60°-70°	319.8	12.9
70°-80°	183.8	7.4
80°-90°	58.0	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°	647.5	26.1
0°-40°	1066.0	43.0
0°-60°	1916.9	77.3
0°-90°	2478.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2478.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	827	827	827	827	827	
5°	826	825	822	826	827	79
15°	800	799	795	799	800	226
25°	750	748	743	745	745	346
35°	676	674	667	665	664	423
45°	584	580	570	566	564	451
55°	472	466	456	451	449	421
65°	340	331	318	317	318	335
75°	189	182	173	157	154	200
85°	45	48	56	54	54	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	827.3	827.3	827.3	827.3	827.3
2.5°	828.3	828.3	824.4	829.3	830.2
5°	826.4	825.3	822.4	826.4	827.3
7.5°	822.4	821.5	818.6	822.4	823.4
10°	816.6	815.6	812.7	816.6	817.6
12.5°	808.8	807.8	804.0	807.8	809.8
15°	800.0	799.1	795.1	799.1	800.0
17.5°	790.4	788.4	784.5	788.4	788.4
20°	777.7	775.7	771.8	774.7	774.7
22.5°	764.0	762.1	758.2	760.2	761.1
25°	749.5	747.5	742.6	744.6	744.6
27.5°	733.9	730.9	726.1	727.1	727.1
30°	715.3	712.4	707.6	708.6	707.6
32.5°	696.9	694.0	689.1	687.1	687.1
35°	676.4	673.5	666.7	664.8	663.8
37.5°	655.0	651.1	644.4	641.4	640.4
40°	632.6	627.8	621.0	618.0	615.1
42.5°	610.2	604.4	595.7	591.7	591.7
45°	584.0	580.1	570.4	566.4	564.5
47.5°	557.7	553.8	543.1	539.2	538.2
50°	530.4	526.6	515.9	511.0	511.0
52.5°	502.2	497.4	485.7	480.8	480.8
55°	472.1	466.2	455.5	450.6	448.7
57.5°	439.9	436.1	422.4	417.5	415.6
60°	408.8	401.9	388.3	383.5	385.4
62.5°	375.7	367.9	354.3	350.4	353.3
65°	339.7	330.9	318.3	317.3	318.3
67.5°	302.7	294.9	284.2	282.3	280.3
70°	265.7	257.9	250.1	239.4	234.5
72.5°	227.8	220.0	214.1	195.6	189.8
75°	188.8	182.0	173.2	156.7	153.8
77.5°	150.9	145.0	132.4	128.5	131.4
80°	112.9	112.9	102.2	110.9	114.9
82.5°	76.9	76.9	82.7	89.6	87.6
85°	44.7	47.7	55.5	53.5	53.5
87.5°	19.5	24.3	24.3	24.3	25.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)