

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: P184327

Luminaire Tested: **ENW/ENC-12-4-LD1-43-40-CA080-UNV-EDC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P184327
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P32844)
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-LD1-43-40-CA080-UNV-EDC1
Description: FAIL-SAFE 1X4 ENCOUNTER W/ 0.080" THICK CLEAR ACRYLIC LENS
Light Source: 4000K LEDS
Ballast/Driver: -

Summary

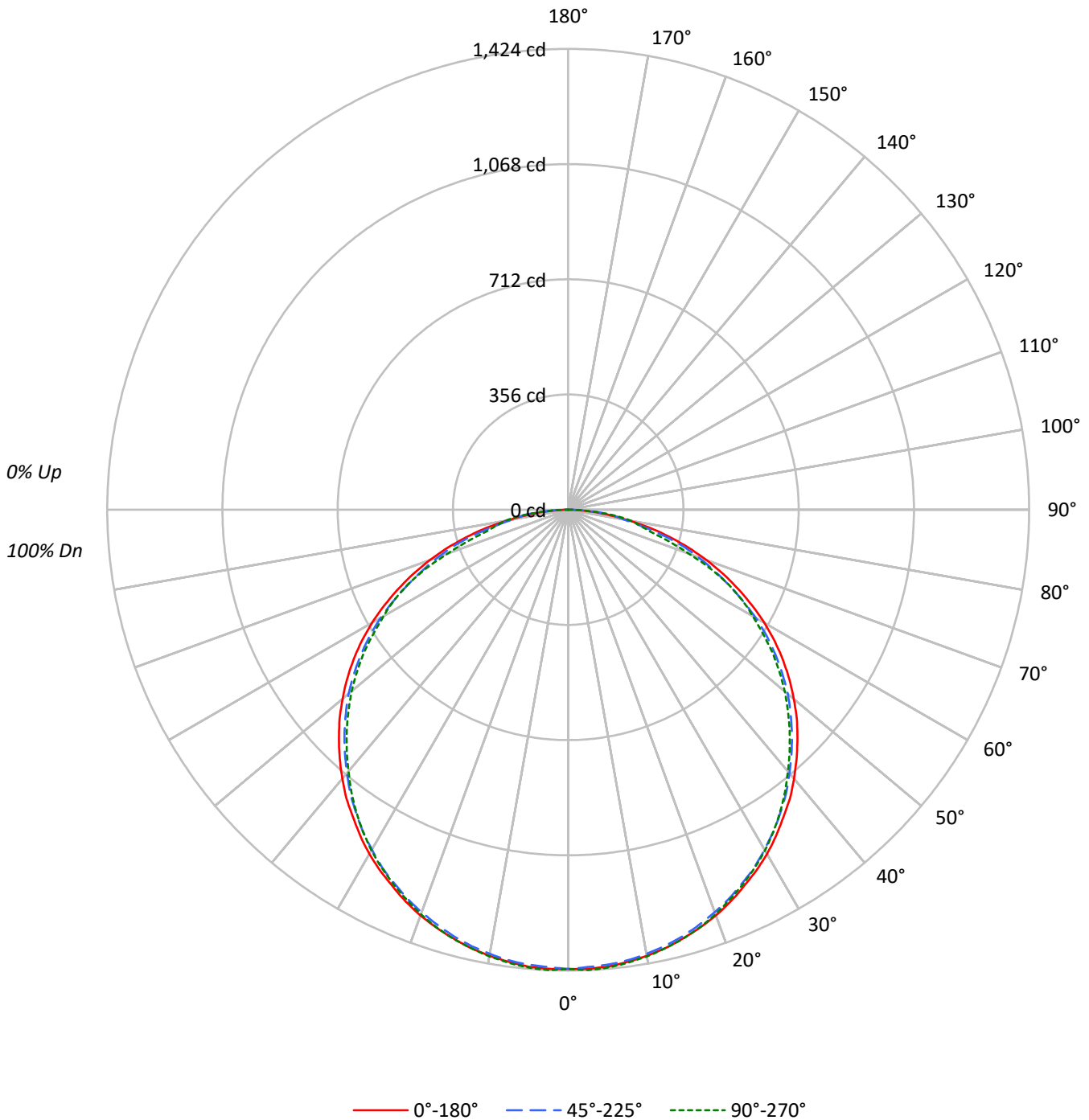
Lumens per Lamp: N/A
Luminaire Lumens: 4247.9 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 4' x L: 1' x H: 0.1')
CIE Type: Direct

Input Watts (W): 47
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: P184327

CATALOG NUMBER: ENW/ENC-12-4-LD1-43-40-CA080-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	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°	3819	3819	3819
5°	3795	3783	3828
10°	3758	3750	3813
15°	3721	3714	3798
20°	3687	3673	3776
25°	3642	3630	3748
30°	3608	3585	3724
35°	3559	3535	3683
40°	3517	3476	3633
45°	3465	3417	3592
50°	3404	3355	3549
55°	3324	3256	3488
60°	3210	3121	3399
65°	3036	2917	3300
70°	2800	2699	2910
75°	2447	2344	2490
80°	1857	1808	2682
85°	1095	1435	2221



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.6	3.2
10°-20°	386.5	9.1
20°-30°	589.2	13.9
30°-40°	717.6	16.9
40°-50°	757.0	17.8
50°-60°	701.6	16.5
60°-70°	548.2	12.9
70°-80°	314.7	7.4
80°-90°	98.6	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°	1110.2	26.1
0°-40°	1827.8	43.0
0°-60°	3286.4	77.4
0°-90°	4247.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4247.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1419	1419	1419	1419	1419	
5°	1417	1416	1411	1417	1420	135
15°	1371	1371	1365	1368	1372	387
25°	1284	1281	1273	1276	1277	593
35°	1159	1154	1143	1140	1141	726
45°	1002	995	977	969	967	773
55°	810	800	782	772	770	723
65°	579	569	545	547	546	573
75°	323	310	300	268	262	340
85°	76	81	93	92	92	91
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1419.1	1419.1	1419.1	1419.1	1419.1
2.5°	1420.1	1419.1	1414.2	1421.0	1423.9
5°	1417.1	1416.2	1411.3	1417.1	1420.1
7.5°	1409.3	1410.3	1404.5	1409.3	1412.3
10°	1399.6	1398.6	1393.7	1399.6	1401.5
12.5°	1387.9	1386.0	1381.1	1385.0	1387.9
15°	1371.4	1371.4	1364.6	1368.5	1372.4
17.5°	1353.9	1351.9	1345.1	1351.0	1352.8
20°	1334.4	1331.5	1323.7	1327.6	1330.5
22.5°	1311.0	1307.2	1300.3	1303.2	1304.2
25°	1283.8	1280.8	1273.0	1276.0	1277.0
27.5°	1257.5	1252.6	1245.9	1245.9	1247.8
30°	1228.3	1221.5	1212.7	1212.7	1215.7
32.5°	1195.2	1188.4	1179.6	1177.7	1179.6
35°	1159.2	1154.3	1142.7	1139.8	1140.7
37.5°	1125.2	1117.4	1105.6	1098.9	1099.8
40°	1085.2	1078.5	1062.9	1056.0	1056.0
42.5°	1044.3	1037.6	1021.0	1013.2	1012.2
45°	1001.6	994.7	977.2	969.4	967.4
47.5°	957.8	948.9	931.4	922.7	920.7
50°	910.0	901.3	885.7	874.0	873.1
52.5°	861.4	852.6	834.2	823.4	822.4
55°	809.8	800.0	781.6	771.8	769.9
57.5°	756.2	746.5	727.1	717.3	713.5
60°	699.8	689.1	668.6	658.9	658.9
62.5°	640.4	629.7	607.3	602.4	607.3
65°	579.1	569.4	545.0	547.0	546.0
67.5°	517.8	507.1	483.7	486.6	475.9
70°	453.6	441.9	426.3	411.7	395.2
72.5°	389.3	375.7	367.9	333.9	326.1
75°	323.2	309.5	299.8	267.6	261.8
77.5°	257.9	250.1	228.7	219.0	226.8
80°	187.8	195.6	175.2	189.8	197.6
82.5°	131.4	131.4	142.1	150.9	150.9
85°	76.0	80.7	93.4	91.5	92.5
87.5°	33.1	40.9	38.9	40.9	39.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)