

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: P27160

Luminaire Tested: **FMB-N-2-LD4-1DN/HI-40-UNV-80/86**

Test Date: 12/04/15

Test Information

Test Method: LM-79-08
Report Number: P27160
Test Lab: INNOVATION CENTER-P2
Test Date: 12/04/15
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FMB-N-2-LD4-1DN/HI-40-UNV-80/86
Description: FAILSAFE LED 2FT FMB WALL MOUNT CORRECTIONAL LUMINAIRE
Light Source: (42) LUMILEDS 4000K LEDS
2UT217042A8404A
Ballast/Driver: (1) OSRAM ELECTRONIC DRIVER
OT25W

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1487.4 lumens
Efficiency: N/A
Efficacy: 66.1 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.16 / 1.26
Luminous Opening: Rectangular w/ Sides (W: 1.75' x L: 0.29' x H: 0.04')
CIE Type: Direct

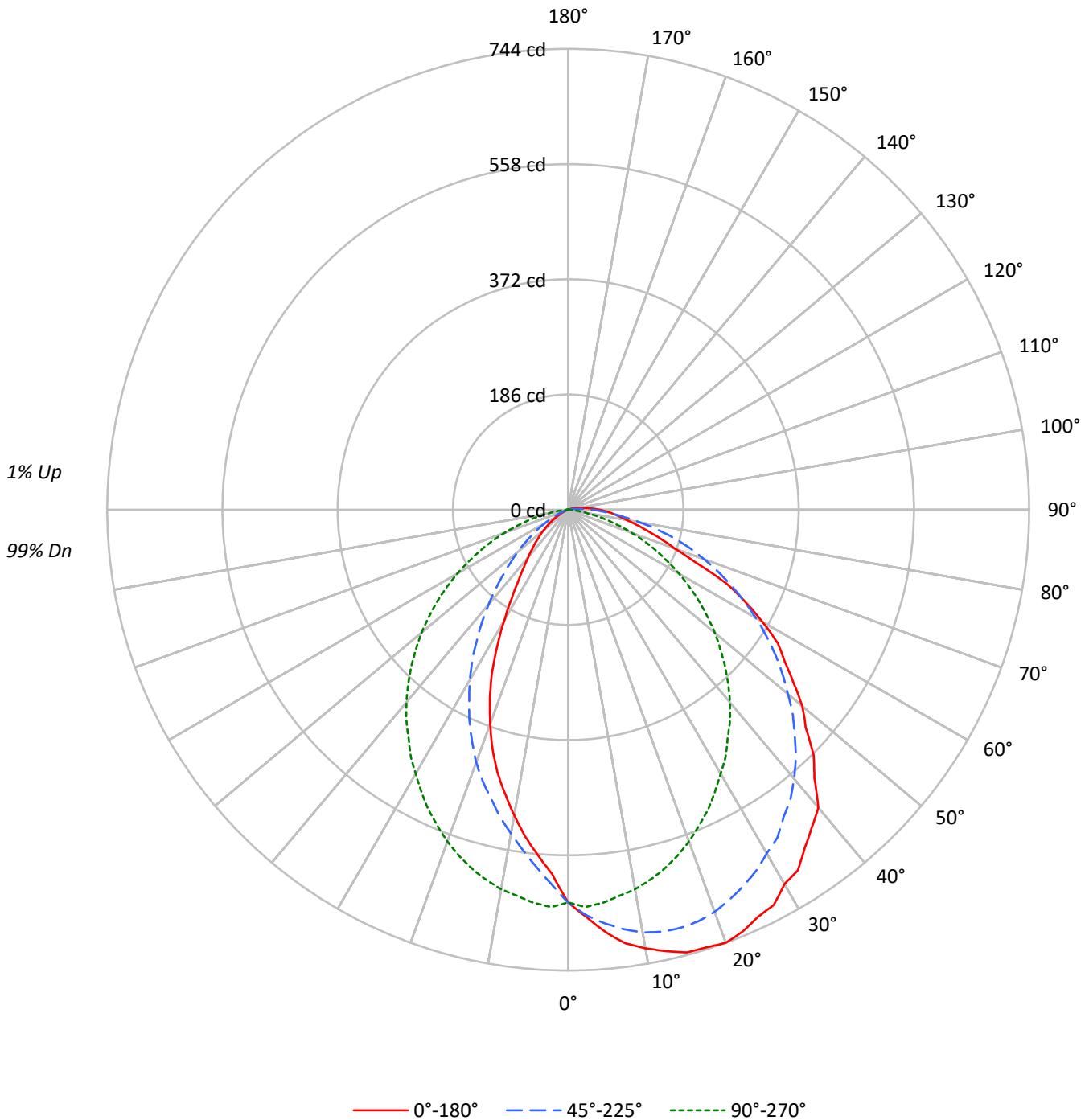
Input Watts (W): 22.5
Input Voltage (V): 120.00
Input Current (A_{in}): 0.18851
Voltage Rise (V): NR
Power Factor: 0.9981
Total Harmonic Distortion (THDi): 5.92%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: 24 HR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	99								
1	109	104	100	97	106	102	98	95	98	95	92	94	91	89	90	88	86	84								
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71								
3	91	81	73	67	89	80	72	66	77	70	65	74	68	64	71	67	63	61								
4	84	72	64	58	82	71	63	57	68	62	56	66	60	55	64	59	55	52								
5	77	65	56	50	75	64	56	50	62	55	49	60	53	48	58	52	48	46								
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	42	40								
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	48	42	38	36								
8	62	49	41	35	61	48	40	35	47	40	35	46	39	35	45	39	34	32								
9	58	45	37	32	57	45	37	32	43	36	32	42	36	31	41	35	31	29								
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	38	33	28	27								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	13370	13370	13370
5°	14301	13457	11708
10°	15018	13264	10465
15°	15560	13016	9252
20°	15871	12682	7850
25°	15816	12289	6348
30°	15702	11818	4634
35°	15587	11370	3276
40°	15438	10958	2458
45°	14614	10429	1931
50°	13821	9858	1458
55°	13009	9174	1008
60°	12240	8385	609
65°	10772	7454	344
70°	8103	6308	0
75°	7068	4864	0
80°	6441	3210	0
85°	6617	1522	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.4	4.0
10°-20°	166.5	11.2
20°-30°	239.9	16.1
30°-40°	268.6	18.1
40°-50°	259.0	17.4
50°-60°	217.0	14.6
60°-70°	152.4	10.2
70°-80°	80.6	5.4
80°-90°	32.6	2.2
90°-100°	9.6	0.6
100°-110°	1.9	0.1
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°	465.7	31.3
0°-40°	734.3	49.4
0°-60°	1210.3	81.4
0°-90°	1475.8	99.2
90°-120°	11.6	0.8
90°-150°	11.6	0.8
90°-180°	12.0	0.8
0°-180°	1487.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	634	634	634	634	634	
5°	684	670	637	580	560	66
15°	740	699	600	482	440	209
25°	725	670	534	377	291	335
35°	666	606	449	257	140	418
45°	560	517	358	148	74	430
55°	426	408	258	71	33	383
65°	282	291	157	21	9	272
75°	133	176	65	1	0	143
85°	72	70	8	0	0	64
90°	51	39	1	0	0	28
95°	31	16	1	0	0	23
105°	8	0	1	0	0	9
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CATALOG NUMBER: FMB-N-2-LD4-1DN/HI-40-UNV-80/86

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	634	634	634	634	634	634	634	634	634	634	634
2.5°	658	657	657	657	657	657	657	657	657	657	655
5°	684	683	682	681	680	678	677	676	675	672	670
7.5°	706	706	704	702	700	699	697	695	692	688	683
10°	719	718	716	714	712	710	709	705	702	697	693
12.5°	730	729	728	726	721	720	718	713	709	704	698
15°	740	740	737	733	729	726	724	720	713	706	699
17.5°	741	740	738	735	733	729	726	720	712	704	697
20°	744	743	740	736	730	725	720	714	708	700	691
22.5°	737	736	731	725	722	720	717	710	699	689	681
25°	725	725	723	722	718	713	709	699	691	681	670
27.5°	719	718	715	708	701	698	695	691	682	668	657
30°	698	697	696	693	693	690	686	672	665	654	641
32.5°	690	686	687	684	674	668	665	662	651	637	628
35°	666	666	661	658	658	658	654	642	631	619	606
37.5°	646	648	647	647	641	635	628	625	615	602	589
40°	628	624	622	617	615	614	613	604	592	580	567
42.5°	588	589	592	593	593	588	583	578	569	557	544
45°	560	563	560	556	553	553	557	550	541	530	517
47.5°	520	518	519	520	525	525	521	517	512	503	492
50°	493	491	495	491	487	485	488	485	481	473	463
52.5°	458	459	456	455	458	458	458	452	451	443	436
55°	426	427	431	431	428	425	424	423	417	414	408
57.5°	401	401	400	397	396	396	397	391	389	384	379
60°	362	363	363	366	368	368	366	363	358	355	350
62.5°	322	323	328	331	333	333	335	334	328	323	320
65°	282	284	287	291	296	300	303	303	300	296	291
67.5°	223	226	233	244	256	260	264	270	271	267	262
70°	183	185	188	195	205	212	223	232	237	238	233
72.5°	157	159	161	164	169	171	178	190	203	209	206
75°	133	135	137	140	143	145	147	154	166	176	176
77.5°	113	113	115	118	121	123	125	129	134	143	146
80°	96	95	96	98	101	103	105	108	111	113	117
82.5°	83	82	81	82	83	85	86	89	91	92	91
85°	72	71	70	70	69	70	70	71	73	74	70
87.5°	61	60	60	59	58	57	57	55	56	56	53
90°	51	50	49	48	47	46	46	43	42	41	39
92.5°	40	40	40	38	37	36	35	33	31	28	26
95°	31	31	31	29	28	27	26	24	22	19	16
97.5°	24	24	23	22	21	20	19	17	15	12	10
100°	17	17	16	16	14	14	13	11	10	8	7
102.5°	12	12	11	11	10	9	9	8	7	6	4
105°	8	8	8	8	7	7	6	5	3	1	0
107.5°	6	5	5	4	2	1	1	0	0	0	0
110°	0	0	0	0	0	0	0	0	0	0	0



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CATALOG NUMBER: FMB-N-2-LD4-1DN/HI-40-UNV-80/86

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	0	0	0	0	0	0	0	0	0	0	0
115°	0	0	0	0	0	0	0	0	0	0	0
117.5°	0	0	0	0	0	0	0	0	0	0	0
120°	0	0	0	0	0	0	0	0	0	0	0
122.5°	0	0	0	0	0	0	0	0	0	0	0
125°	0	0	0	0	0	0	0	0	0	0	0
127.5°	0	0	0	0	0	0	0	0	0	0	0
130°	0	0	0	0	0	0	0	0	0	0	0
132.5°	0	0	0	0	0	0	0	0	0	0	0
135°	0	0	0	0	0	0	0	0	0	0	0
137.5°	0	0	0	0	0	0	0	0	0	0	0
140°	0	0	0	0	0	0	0	0	0	0	0
142.5°	0	0	0	0	0	0	0	0	0	0	0
145°	0	0	0	0	0	0	0	0	0	0	0
147.5°	0	0	0	0	0	0	0	0	0	0	0
150°	0	0	0	0	0	0	0	0	0	0	0
152.5°	0	0	0	0	0	0	0	0	0	0	0
155°	0	0	0	0	0	0	0	0	0	0	0
157.5°	0	0	0	0	0	0	0	0	0	0	0
160°	0	0	0	0	0	0	0	0	0	0	0
162.5°	0	0	0	0	0	0	0	0	0	0	0
165°	0	0	0	0	0	0	0	0	0	0	0
167.5°	0	0	0	0	0	0	0	0	0	0	0
170°	0	0	0	0	0	0	0	0	0	0	0
172.5°	0	0	0	0	0	0	0	0	0	0	0
175°	0	0	0	0	0	0	0	0	0	0	0
177.5°	0	0	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0	0	0



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CATALOG NUMBER: FMB-N-2-LD4-1DN/HI-40-UNV-80/86

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	634	634	634	634	634	634	634	634	634	634	634
2.5°	652	650	649	649	648	647	645	644	643	642	638
5°	666	662	660	659	657	656	652	647	641	637	629
7.5°	679	674	669	665	662	658	652	643	637	629	620
10°	686	680	674	667	664	660	652	641	632	622	610
12.5°	691	684	676	667	663	658	649	637	625	612	597
15°	691	682	674	664	658	653	641	628	615	600	584
17.5°	687	676	666	658	652	647	633	618	603	586	568
20°	680	669	658	647	640	633	620	607	590	570	551
22.5°	671	657	646	634	629	622	607	591	572	552	533
25°	658	645	632	619	614	606	591	573	554	534	513
27.5°	643	629	616	602	596	589	572	554	534	513	492
30°	628	614	598	584	577	569	551	534	512	492	472
32.5°	611	596	580	565	558	548	531	512	492	473	450
35°	594	577	559	543	534	525	508	489	470	449	428
37.5°	573	556	538	520	511	503	486	467	448	429	406
40°	551	534	515	497	489	482	463	445	425	406	383
42.5°	529	511	494	476	468	459	441	421	403	382	360
45°	502	486	470	453	444	435	418	398	379	358	336
47.5°	478	463	446	428	420	411	393	374	354	333	311
50°	450	436	421	403	395	386	368	349	330	309	286
52.5°	425	411	395	379	370	362	344	324	305	283	261
55°	398	384	369	353	344	337	319	299	279	258	234
57.5°	372	357	343	328	318	309	293	274	253	232	209
60°	341	329	314	299	292	283	267	248	228	207	183
62.5°	313	302	288	273	264	257	240	222	203	181	159
65°	283	273	260	246	237	230	213	197	178	157	135
67.5°	254	244	232	218	210	203	186	172	153	133	111
70°	225	216	204	191	182	176	160	146	128	109	88
72.5°	198	188	178	164	155	149	136	121	104	86	67
75°	171	161	150	137	130	123	109	97	81	65	49
77.5°	144	136	125	112	105	99	87	74	60	46	33
80°	117	111	101	88	82	76	65	53	42	30	20
82.5°	91	87	79	68	61	56	46	36	26	17	10
85°	68	66	59	49	43	38	30	22	14	8	4
87.5°	50	46	41	32	28	24	18	11	6	2	1
90°	35	31	26	20	17	14	9	5	2	1	1
92.5°	23	19	15	11	9	7	4	2	1	1	1
95°	14	11	8	5	4	3	1	0	1	1	1
97.5°	8	6	4	2	1	0	1	1	1	1	1
100°	5	4	1	1	1	1	1	1	1	1	1
102.5°	1	0	1	1	1	1	1	1	1	1	1
105°	0	1	1	1	1	1	1	1	1	1	1
107.5°	0	1	0	0	1	1	1	1	1	1	1
110°	0	1	0	1	1	1	1	1	1	1	1



TEST NUMBER: P27160

CATALOG NUMBER: FMB-N-2-LD4-1DN/HI-40-UNV-80/86

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	0	0	0	0	0	0	0	0	0	0	0
115°	0	0	0	0	0	0	0	0	0	0	0
117.5°	0	0	0	0	0	0	0	0	0	0	0
120°	0	0	0	0	0	0	0	0	0	0	0
122.5°	0	0	0	0	0	0	0	0	0	0	0
125°	0	0	0	0	0	0	0	0	0	0	0
127.5°	0	0	0	0	0	0	0	0	0	0	0
130°	0	0	0	0	0	0	0	0	0	0	0
132.5°	0	0	0	0	0	0	0	0	0	0	0
135°	0	0	0	0	0	0	0	0	0	0	0
137.5°	0	0	0	0	0	0	0	0	0	0	0
140°	0	0	0	0	0	0	0	0	0	0	0
142.5°	0	0	0	0	0	0	0	0	0	0	0
145°	0	0	0	0	0	0	0	0	0	0	0
147.5°	0	0	0	0	0	0	0	0	0	0	0
150°	0	0	0	0	0	0	0	0	0	0	0
152.5°	0	0	0	0	0	0	0	0	0	0	0
155°	0	0	0	0	0	0	0	0	0	0	0
157.5°	0	0	0	0	0	0	0	0	0	0	0
160°	0	0	0	0	0	0	0	0	0	0	0
162.5°	0	0	0	0	0	0	0	0	0	0	0
165°	0	0	0	0	0	0	0	0	0	0	0
167.5°	0	0	0	0	0	0	0	0	0	0	0
170°	0	0	0	0	0	0	0	0	0	0	0
172.5°	0	0	0	0	0	0	0	0	0	0	0
175°	0	0	0	0	0	0	0	0	0	0	0
177.5°	0	0	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0	0	0



TEST NUMBER: P27160

CATALOG NUMBER: FMB-N-2-LD4-1DN/HI-40-UNV-80/86

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	634	634	634	634	634	634	634	634	634	634	634
2.5°	630	627	624	621	620	614	611	608	606	604	599
5°	621	615	609	604	602	594	589	583	580	576	570
7.5°	610	601	592	586	583	573	567	559	555	550	544
10°	597	586	575	568	564	554	545	537	531	525	518
12.5°	582	569	557	551	545	533	523	514	508	501	492
15°	567	552	539	532	526	512	502	491	482	474	465
17.5°	549	534	519	513	505	492	480	468	459	448	440
20°	532	516	500	492	484	470	456	443	434	421	409
22.5°	513	495	478	471	463	447	431	417	405	391	377
25°	494	475	458	451	442	424	409	392	377	361	346
27.5°	473	454	436	427	418	400	383	365	346	329	313
30°	452	432	413	405	394	376	356	336	317	298	280
32.5°	431	411	392	382	372	352	330	308	288	266	246
35°	408	387	367	357	348	326	302	281	257	235	212
37.5°	386	365	345	334	324	301	276	253	228	204	182
40°	364	343	321	311	300	276	251	225	200	175	154
42.5°	340	319	298	287	275	250	225	198	173	149	131
45°	316	295	273	263	249	226	200	173	148	127	111
47.5°	291	270	248	238	224	201	175	150	126	107	93
50°	265	244	223	212	199	177	152	128	107	89	77
52.5°	239	219	198	187	175	154	129	107	88	73	64
55°	212	194	173	162	151	130	108	88	71	59	51
57.5°	187	168	148	138	128	108	88	71	56	46	40
60°	162	143	124	115	106	88	70	55	43	35	30
62.5°	137	119	102	93	85	69	53	41	31	25	21
65°	113	96	80	73	65	51	38	29	21	17	15
67.5°	91	75	61	54	48	36	26	19	14	11	10
70°	70	56	44	38	33	23	16	12	9	8	7
72.5°	52	39	29	24	20	14	9	7	6	5	3
75°	36	25	18	14	11	8	6	5	1	0	0
77.5°	23	15	9	7	6	4	2	0	0	0	0
80°	12	7	5	4	3	0	0	0	0	0	0
82.5°	6	3	1	0	0	0	0	0	0	0	0
85°	2	1	0	1	0	0	0	0	0	0	0
87.5°	0	0	0	0	0	0	0	0	0	0	0
90°	1	1	1	0	0	0	0	0	0	0	0
92.5°	1	1	1	0	0	0	0	0	0	0	0
95°	1	0	0	0	0	0	0	0	0	0	0
97.5°	1	0	0	0	0	0	0	0	0	0	0
100°	1	1	0	0	0	0	0	0	0	0	0
102.5°	1	0	0	0	0	0	0	0	0	0	0
105°	1	1	1	1	0	1	0	0	0	0	0
107.5°	1	1	1	0	0	0	0	0	0	0	0
110°	1	1	0	1	0	0	0	0	0	0	0



TEST NUMBER: P27160

CATALOG NUMBER: FMB-N-2-LD4-1DN/HI-40-UNV-80/86

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	0	0	0	0	0	0	0	0	0	0	0
115°	0	0	0	0	0	0	0	0	0	0	0
117.5°	0	0	0	0	0	0	0	0	0	0	0
120°	0	0	0	0	0	0	0	0	0	0	0
122.5°	0	0	0	0	0	0	0	0	0	0	0
125°	0	0	0	0	0	0	0	0	0	0	0
127.5°	0	0	0	0	0	0	0	0	0	0	0
130°	0	0	0	0	0	0	0	0	0	0	0
132.5°	0	0	0	0	0	0	0	0	0	0	0
135°	0	0	0	0	0	0	0	0	0	0	0
137.5°	0	0	0	0	0	0	0	0	0	0	0
140°	0	0	0	0	0	0	0	0	0	0	0
142.5°	0	0	0	0	0	0	0	0	0	0	0
145°	0	0	0	0	0	0	0	0	0	0	0
147.5°	0	0	0	0	0	0	0	0	0	0	0
150°	0	0	0	0	0	0	0	0	0	0	0
152.5°	0	0	0	0	0	0	0	0	0	0	0
155°	0	0	0	0	0	0	0	0	0	0	0
157.5°	0	0	0	0	0	0	0	0	0	0	0
160°	0	0	0	0	0	0	0	0	0	0	0
162.5°	0	0	0	0	0	0	0	0	0	0	0
165°	0	0	0	0	0	0	0	0	0	0	0
167.5°	0	0	0	0	0	0	0	0	0	0	0
170°	0	0	0	0	0	0	0	0	0	0	0
172.5°	0	0	0	0	0	0	0	0	0	0	0
175°	0	0	0	0	0	0	0	0	0	0	0
177.5°	0	0	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0	0	0



TEST NUMBER: P27160

CATALOG NUMBER: FMB-N-2-LD4-1DN/HI-40-UNV-80/86

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	634	634	634	634	634	634	634	634
2.5°	596	593	592	592	590	588	588	589
5°	567	565	564	562	560	559	559	560
7.5°	539	537	535	534	531	530	530	532
10°	513	508	506	505	502	500	500	501
12.5°	485	480	479	476	472	469	469	470
15°	458	452	452	449	444	440	440	440
17.5°	429	422	419	415	410	406	406	406
20°	397	388	385	380	374	369	369	368
22.5°	365	354	350	346	338	332	331	330
25°	332	319	315	310	300	295	291	291
27.5°	298	283	277	271	260	254	250	248
30°	261	245	238	231	220	213	208	206
32.5°	225	208	200	193	182	176	171	169
35°	191	174	167	161	152	146	142	140
37.5°	161	146	140	135	127	123	119	118
40°	136	123	118	114	107	104	101	100
42.5°	115	105	100	96	92	89	87	86
45°	97	89	85	82	78	76	74	74
47.5°	82	75	72	70	66	65	63	62
50°	68	63	60	58	55	54	52	52
52.5°	56	51	49	48	45	44	42	42
55°	45	41	39	38	36	34	34	33
57.5°	35	32	31	29	28	26	26	25
60°	26	23	23	22	20	19	18	18
62.5°	19	17	16	15	14	13	13	13
65°	13	12	11	11	10	9	9	9
67.5°	9	8	8	8	7	7	7	7
70°	6	6	5	4	1	0	0	0
72.5°	0	0	0	0	0	0	0	0
75°	0	0	0	0	0	0	0	0
77.5°	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0
87.5°	0	0	0	0	0	0	0	0
90°	0	0	0	0	0	0	0	0
92.5°	0	0	0	0	0	0	0	0
95°	0	0	0	0	0	0	0	0
97.5°	0	0	0	0	0	0	0	0
100°	0	0	0	0	0	0	0	0
102.5°	0	0	0	0	0	0	0	0
105°	0	0	0	0	0	0	0	0
107.5°	0	0	0	0	0	0	0	0
110°	0	0	0	0	0	0	0	0



TEST NUMBER: P27160

CATALOG NUMBER: FMB-N-2-LD4-1DN/HI-40-UNV-80/86

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
112.5°	0	0	0	0	0	0	0	0
115°	0	0	0	0	0	0	0	0
117.5°	0	0	0	0	0	0	0	0
120°	0	0	0	0	0	0	0	0
122.5°	0	0	0	0	0	0	0	0
125°	0	0	0	0	0	0	0	0
127.5°	0	0	0	0	0	0	0	0
130°	0	0	0	0	0	0	0	0
132.5°	0	0	0	0	0	0	0	0
135°	0	0	0	0	0	0	0	0
137.5°	0	0	0	0	0	0	0	0
140°	0	0	0	0	0	0	0	0
142.5°	0	0	0	0	0	0	0	0
145°	0	0	0	0	0	0	0	0
147.5°	0	0	0	0	0	0	0	0
150°	0	0	0	0	0	0	0	0
152.5°	0	0	0	0	0	0	0	0
155°	0	0	0	0	0	0	0	0
157.5°	0	0	0	0	0	0	0	0
160°	0	0	0	0	0	0	0	0
162.5°	0	0	0	0	0	0	0	0
165°	0	0	0	0	0	0	0	0
167.5°	0	0	0	0	0	0	0	0
170°	0	0	0	0	0	0	0	0
172.5°	0	0	0	0	0	0	0	0
175°	0	0	0	0	0	0	0	0
177.5°	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0

(END OF REPORT)