

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: P27008

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

Test Date: 11/04/15

Test Information

Test Method: LM-79-08
Report Number: P27008
Test Lab: INNOVATION CENTER-P2
Test Date: 11/04/15
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FCC-N-2-LD4-1HI-40-UNV-80/86
Description: FAILSAFE LED 2' FCC CORNER MOUNT CORRECTIONAL FIXTURE
Light Source: (42) NICHIA 4000K LEDS
2UT217042A8404A
Ballast/Driver: (1) OSRAM ELECTRONIC DRIVER
OSRAM OT25W

Summary

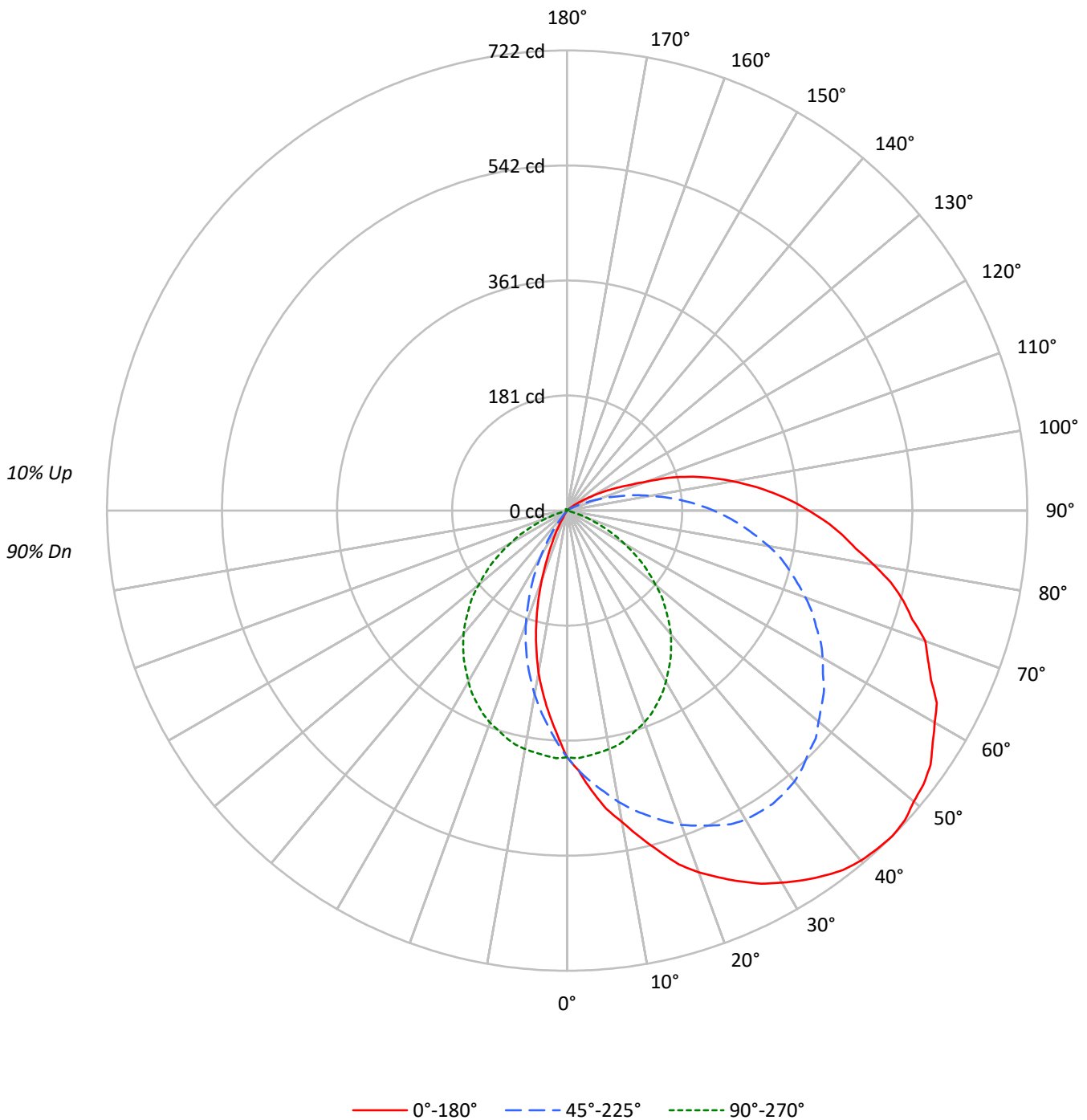
Lumens per Lamp: N/A
Luminaire Lumens: 1596.4 lumens
Efficiency: N/A
Efficacy: 71.0 lumens/watt
Spacing Criteria (0/90/45): 1.39 / 1.19 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 1.92' x L: 0.38' x H: 0.52')
CIE Type: Semi-Direct

Input Watts (W): 22.5
Input Voltage (V): 120.14
Input Current (Ain): 0.18796
Voltage Rise (V): NR
Power Factor: 0.9975
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	0	
RCR																						
0	117	117	117	117	113	113	113	113	105	105	105	99	99	99	93	93	93	90				
1	103	97	91	86	99	93	88	84	87	83	79	81	78	75	76	73	71	68				
2	92	82	74	67	88	79	72	66	74	68	63	69	64	60	65	60	57	54				
3	83	71	62	55	80	69	60	53	64	57	51	60	54	49	56	51	47	44				
4	76	63	53	45	73	60	51	44	57	49	43	53	46	41	50	44	39	37				
5	69	55	46	38	66	54	45	38	50	42	36	47	40	35	44	38	34	31				
6	64	50	40	33	61	48	39	33	45	37	32	43	36	30	40	34	29	27				
7	59	45	36	29	57	44	35	29	41	33	28	39	32	27	36	30	26	24				
8	55	41	32	26	53	40	31	25	37	30	25	35	29	24	33	27	23	21				
9	51	37	29	23	49	36	28	23	34	27	22	33	26	21	31	25	21	19				
10	48	34	26	21	46	33	26	20	32	25	20	30	24	19	29	23	19	17				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	5796	5796	5796
5°	5911	5668	4303
10°	6059	5514	3152
15°	6237	5333	2124
20°	6394	5134	1239
25°	6439	4898	542
30°	6468	4634	115
35°	6488	4347	0
40°	6473	4028	0
45°	6401	3630	0
50°	6230	3185	0
55°	6091	2709	0
60°	5857	2098	0
65°	5611	1455	0
70°	5437	802	0
75°	5109	57	0
80°	4741	0	0
85°	4409	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.5	2.3
10°-20°	104.3	6.5
20°-30°	157.2	9.8
30°-40°	193.1	12.1
40°-50°	215.0	13.5
50°-60°	217.6	13.6
60°-70°	203.4	12.7
70°-80°	173.5	10.9
80°-90°	133.0	8.3
90°-100°	90.9	5.7
100°-110°	49.3	3.1
110°-120°	17.0	1.1
120°-130°	4.1	0.3
130°-140°	1.4	0.1
140°-150°	0.2	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	298.0	18.7
0°-40°	491.1	30.8
0°-60°	923.7	57.9
0°-90°	1433.6	89.8
90°-120°	157.1	9.8
90°-150°	162.8	10.2
90°-180°	163.0	10.2
0°-180°	1596.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	387	387	387	387	387	
5°	441	427	386	340	321	44
15°	552	496	369	243	188	158
25°	642	545	334	134	54	298
35°	700	562	283	39	0	439
45°	722	536	218	0	0	556
55°	696	492	144	0	0	621
65°	630	431	65	0	0	627
75°	546	361	2	0	0	575
85°	433	276	0	0	0	364
90°	379	230	0	0	0	208
95°	323	182	0	0	0	252
105°	205	89	0	0	0	215
115°	82	22	0	0	0	85
125°	21	1	1	1	0	21
135°	0	1	3	2	1	2
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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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	387	387	387	387	387	387	387	387	387	387	387
2.5°	408	408	407	409	409	410	410	410	410	409	408
5°	441	437	436	437	436	436	435	434	432	431	427
7.5°	472	469	467	467	464	464	462	459	456	452	445
10°	496	494	493	494	491	490	487	483	478	473	464
12.5°	524	522	519	518	513	512	509	504	498	490	481
15°	552	550	548	545	540	538	534	527	517	508	496
17.5°	582	579	577	573	566	564	558	548	536	525	511
20°	604	604	601	595	588	585	580	569	556	541	525
22.5°	623	620	619	615	606	603	598	586	569	554	535
25°	642	640	636	631	623	619	613	601	586	567	545
27.5°	660	657	652	645	637	632	626	613	597	577	555
30°	674	672	668	660	651	646	637	621	603	583	560
32.5°	688	686	682	671	659	653	645	628	608	585	561
35°	700	698	690	682	667	660	653	633	612	590	562
37.5°	711	707	700	689	674	665	655	633	611	587	559
40°	717	714	708	694	678	669	660	645	615	584	555
42.5°	720	718	709	695	678	670	661	640	610	579	547
45°	722	720	710	695	678	666	654	629	601	570	536
47.5°	719	718	708	694	674	664	652	625	597	564	529
50°	710	709	700	686	669	657	644	616	587	552	515
52.5°	705	703	694	682	661	648	636	607	576	539	503
55°	696	693	685	670	653	642	630	600	567	529	492
57.5°	680	677	669	660	642	630	616	588	554	515	476
60°	666	662	657	648	627	617	606	574	539	501	463
62.5°	654	652	646	631	615	606	594	563	526	487	449
65°	630	627	622	613	599	587	576	545	508	471	431
67.5°	613	610	606	598	579	568	556	529	490	455	416
70°	598	594	588	572	558	548	540	508	474	437	398
72.5°	568	565	559	554	538	527	513	485	453	417	379
75°	546	542	540	528	510	498	489	463	431	398	361
77.5°	520	520	512	499	482	475	466	440	410	377	343
80°	488	484	479	469	456	448	438	412	387	353	321
82.5°	457	454	450	443	429	420	409	387	362	330	298
85°	433	431	425	417	402	392	383	363	338	307	276
87.5°	407	404	399	388	375	367	359	338	312	283	253
90°	379	376	370	364	352	344	334	312	289	260	230
92.5°	352	350	346	338	326	318	310	288	263	236	206
95°	323	322	319	312	299	291	281	262	239	210	182
97.5°	294	294	290	282	270	263	254	234	212	184	157
100°	264	262	260	252	241	233	225	207	185	159	133
102.5°	235	235	231	224	213	206	198	181	161	135	111
105°	205	205	201	194	184	178	170	154	135	111	89
107.5°	173	173	169	162	154	148	140	126	110	89	69
110°	133	133	131	127	120	116	110	99	85	68	51



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	103	103	100	97	91	87	82	74	62	48	35
115°	82	82	79	75	70	66	62	54	45	33	22
117.5°	64	64	61	57	52	49	45	38	31	21	13
120°	46	47	44	41	37	34	31	26	19	12	7
122.5°	32	32	30	28	25	23	20	16	11	6	4
125°	21	21	20	18	15	14	12	9	6	4	1
127.5°	13	13	12	10	9	8	7	5	4	1	0
130°	8	7	7	6	5	5	4	3	1	1	1
132.5°	4	4	4	4	3	1	0	0	1	1	1
135°	0	0	0	0	0	0	0	1	1	1	1
137.5°	0	0	0	0	0	0	1	1	1	1	1
140°	0	0	0	0	0	0	1	1	1	1	1
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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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	387	387	387	387	387	387	387	387	387	387	387
2.5°	407	406	404	402	400	399	396	394	392	389	387
5°	423	420	416	411	409	407	402	397	392	386	382
7.5°	440	434	427	420	417	413	406	399	391	383	376
10°	456	448	439	429	425	420	410	402	391	380	371
12.5°	471	462	451	439	432	426	413	401	389	376	364
15°	484	473	459	445	438	430	414	399	385	369	355
17.5°	495	481	467	450	442	433	415	397	380	361	344
20°	508	489	472	454	445	435	415	394	375	354	335
22.5°	515	496	476	454	445	434	412	390	366	345	323
25°	524	501	478	455	444	433	409	384	358	334	310
27.5°	530	505	480	455	443	429	404	377	350	323	297
30°	533	506	478	451	438	424	395	368	339	310	282
32.5°	533	504	474	446	432	417	388	358	328	296	266
35°	533	502	470	440	425	410	379	347	316	283	251
37.5°	528	494	463	431	416	400	368	335	302	268	234
40°	522	489	456	422	407	390	357	323	288	253	218
42.5°	513	480	446	412	394	378	343	308	272	236	199
45°	502	469	433	399	381	364	328	292	255	218	181
47.5°	493	458	422	387	369	351	314	277	240	202	163
50°	478	443	406	371	352	334	296	258	220	181	142
52.5°	465	429	391	355	336	317	278	239	200	162	122
55°	453	416	377	339	320	301	262	222	182	144	105
57.5°	437	399	360	321	301	282	242	202	162	123	85
60°	421	382	343	303	283	263	222	181	141	103	65
62.5°	409	368	328	287	266	246	204	164	123	85	49
65°	391	350	308	266	245	225	183	143	103	65	31
67.5°	375	333	290	248	227	206	163	123	83	47	15
70°	359	316	274	230	208	187	144	104	66	32	3
72.5°	340	296	254	209	187	166	123	84	47	15	0
75°	321	278	235	190	168	147	104	65	31	2	0
77.5°	303	261	218	174	151	130	87	50	18	0	0
80°	282	239	197	153	131	110	68	34	4	0	0
82.5°	259	218	176	134	113	92	51	19	0	0	0
85°	239	198	158	116	95	76	37	8	0	0	0
87.5°	216	177	137	97	78	59	25	0	0	0	0
90°	195	156	118	81	62	45	14	0	0	0	0
92.5°	171	135	99	63	46	32	5	0	0	0	0
95°	149	115	81	48	33	20	0	0	0	0	0
97.5°	126	94	63	33	20	9	0	0	0	0	0
100°	103	74	46	20	10	1	0	0	0	0	0
102.5°	83	56	32	11	3	0	0	0	0	0	0
105°	64	40	20	3	0	0	0	0	0	0	0
107.5°	47	27	10	0	0	0	0	0	0	0	0
110°	33	16	4	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	20	8	1	0	0	0	0	0	0	0	0
115°	11	4	0	0	0	0	0	0	0	0	0
117.5°	5	2	0	0	0	0	0	0	0	0	0
120°	3	0	0	0	0	0	0	0	0	0	1
122.5°	0	0	0	0	0	0	1	1	1	1	1
125°	0	0	1	1	1	1	1	1	1	1	2
127.5°	1	1	1	1	1	1	2	2	2	2	2
130°	1	1	1	2	2	2	2	2	2	2	2
132.5°	1	1	2	2	2	2	2	2	2	3	3
135°	1	2	2	2	2	2	2	2	3	3	3
137.5°	1	2	2	2	2	2	2	2	3	3	3
140°	2	2	2	2	2	2	2	3	3	3	3
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: FCC-N-2-LD4-1HI-40-UNV-80/86

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	387	387	387	387	387	387	387	387	387	387	387
2.5°	385	382	379	378	376	373	370	365	364	362	359
5°	378	372	366	363	359	354	349	343	340	337	333
7.5°	369	361	352	349	344	337	330	324	317	312	307
10°	361	350	339	334	328	320	310	301	293	286	279
12.5°	351	337	325	318	311	301	289	279	268	260	252
15°	339	323	309	301	293	280	266	255	243	232	220
17.5°	327	309	292	285	276	259	244	230	216	203	190
20°	315	296	276	267	257	238	221	206	189	175	160
22.5°	300	278	257	247	236	216	197	180	161	145	130
25°	286	262	239	228	216	195	173	155	134	118	101
27.5°	270	244	220	208	196	173	150	130	108	92	75
30°	254	227	200	187	174	150	126	105	83	66	50
32.5°	236	207	179	166	153	127	103	81	59	43	28
35°	219	189	160	146	132	105	81	60	39	23	11
37.5°	199	168	138	124	110	83	59	38	18	5	0
40°	182	148	118	104	90	63	40	20	2	0	0
42.5°	163	129	97	82	69	42	21	2	0	0	0
45°	142	109	77	62	48	24	4	0	0	0	0
47.5°	124	89	59	44	31	9	0	0	0	0	0
50°	103	68	38	25	13	0	0	0	0	0	0
52.5°	84	50	22	9	0	0	0	0	0	0	0
55°	67	34	7	0	0	0	0	0	0	0	0
57.5°	48	17	0	0	0	0	0	0	0	0	0
60°	30	1	0	0	0	0	0	0	0	0	0
62.5°	16	0	0	0	0	0	0	0	0	0	0
65°	1	0	0	0	0	0	0	0	0	0	0
67.5°	0	0	0	0	0	0	0	0	0	0	0
70°	0	0	0	0	0	0	0	0	0	0	0
72.5°	0	0	0	0	0	0	0	0	0	0	0
75°	0	0	0	0	0	0	0	0	0	0	0
77.5°	0	0	0	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0	0	0
87.5°	0	0	0	0	0	0	0	0	0	0	0
90°	0	0	0	0	0	0	0	0	0	0	0
92.5°	0	0	0	0	0	0	0	0	0	0	0
95°	0	0	0	0	0	0	0	0	0	0	0
97.5°	0	0	0	0	0	0	0	0	0	0	0
100°	0	0	0	0	0	0	0	0	0	0	0
102.5°	0	0	0	0	0	0	0	0	0	0	0
105°	0	0	0	0	0	0	0	0	0	0	0
107.5°	0	0	0	0	0	0	0	0	0	0	0
110°	0	0	0	0	0	0	0	0	0	0	0



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CATALOG NUMBER: FCC-N-2-LD4-1HI-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°	1	1	1	1	1	1	1	1	0	0	0
122.5°	1	1	1	1	1	1	1	1	1	1	1
125°	2	2	2	2	1	1	1	1	1	1	1
127.5°	2	2	2	2	2	2	2	2	1	1	1
130°	3	2	2	3	2	2	2	2	2	2	2
132.5°	3	3	3	3	3	2	2	2	2	2	2
135°	3	3	3	3	3	3	3	2	2	2	2
137.5°	3	3	3	3	3	3	3	2	2	2	2
140°	3	3	3	3	3	3	3	2	2	2	2
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: P27008

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

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	387	387	387	387	387	387	387	387
2.5°	355	354	353	353	352	351	351	352
5°	328	326	325	324	323	321	321	321
7.5°	301	298	296	295	292	291	290	290
10°	271	268	265	264	261	259	258	258
12.5°	245	238	234	232	228	226	224	223
15°	213	205	200	198	194	190	188	188
17.5°	181	171	167	164	159	155	153	152
20°	150	140	134	131	126	120	118	117
22.5°	119	107	101	98	91	86	84	83
25°	90	78	72	69	62	57	55	54
27.5°	63	52	46	43	39	34	32	32
30°	39	29	25	22	17	14	13	12
32.5°	18	10	8	4	0	0	0	0
35°	2	0	0	0	0	0	0	0
37.5°	0	0	0	0	0	0	0	0
40°	0	0	0	0	0	0	0	0
42.5°	0	0	0	0	0	0	0	0
45°	0	0	0	0	0	0	0	0
47.5°	0	0	0	0	0	0	0	0
50°	0	0	0	0	0	0	0	0
52.5°	0	0	0	0	0	0	0	0
55°	0	0	0	0	0	0	0	0
57.5°	0	0	0	0	0	0	0	0
60°	0	0	0	0	0	0	0	0
62.5°	0	0	0	0	0	0	0	0
65°	0	0	0	0	0	0	0	0
67.5°	0	0	0	0	0	0	0	0
70°	0	0	0	0	0	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: P27008

CATALOG NUMBER: FCC-N-2-LD4-1HI-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°	1	1	0	0	0	0	0	0
125°	1	1	1	1	1	0	0	0
127.5°	1	1	1	1	1	1	0	0
130°	1	1	1	1	1	1	1	1
132.5°	1	1	1	1	1	1	1	1
135°	2	1	1	1	1	1	1	1
137.5°	2	2	1	1	1	1	1	1
140°	2	2	1	1	1	1	1	1
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)