

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: P27011

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

Test Date: 11/06/15

Test Information

Test Method: LM-79-08
Report Number: P27011
Test Lab: INNOVATION CENTER-P2
Test Date: 11/06/15
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FCC-N-2-LD4-2HI-40-UNV-80/86
Description: FAILSAFE LED 2' FCC CORNER MOUNT CORRECTIONAL FIXTURE
Light Source: (84) NICHIA 4000K LEDS
2UT217042A8404A
Ballast/Driver: (1) OSRAM ELECTRONIC DRIVER
OSRAM OT50W

Summary

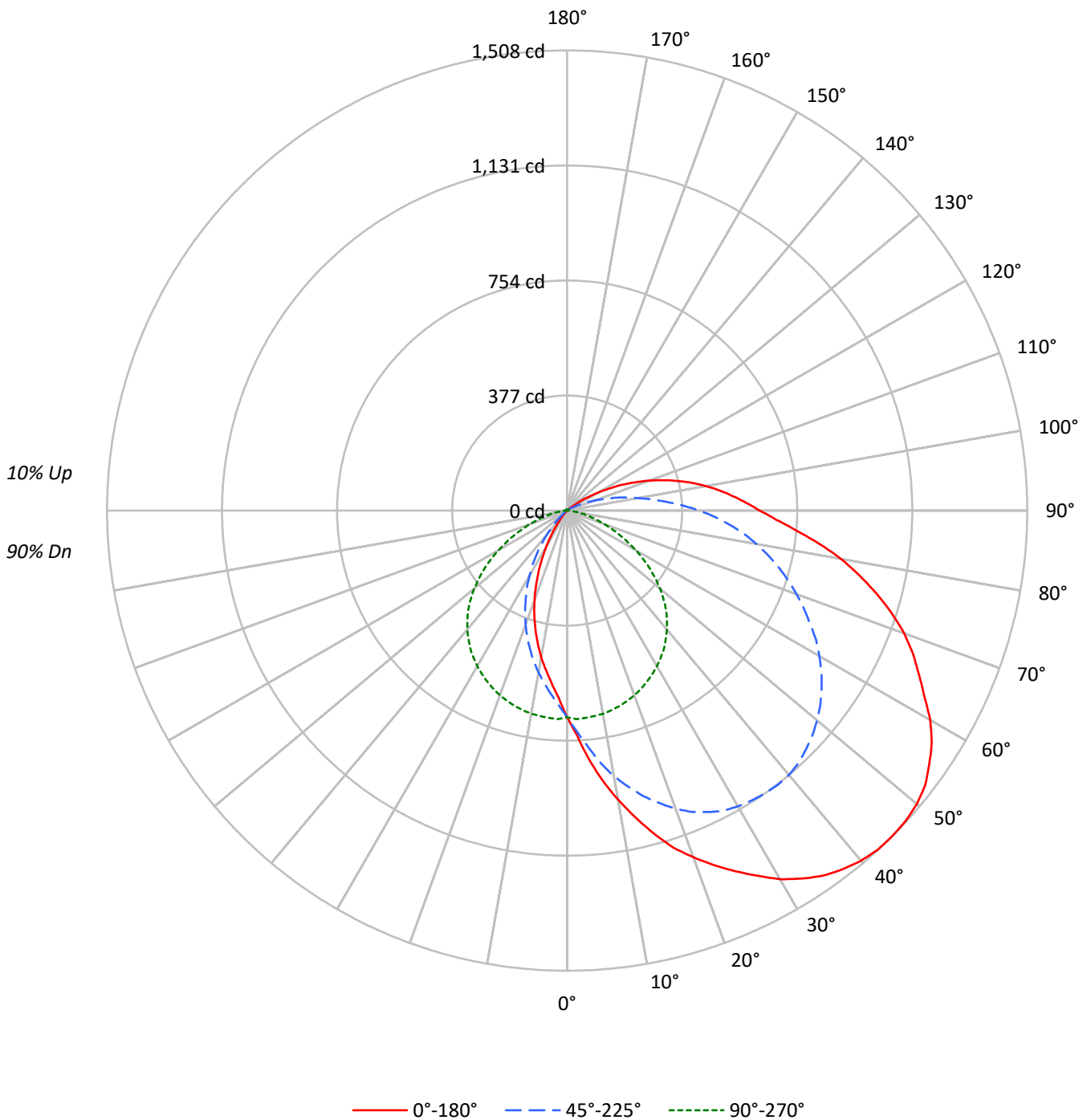
Lumens per Lamp: N/A
Luminaire Lumens: 3274.1 lumens
Efficiency: N/A
Efficacy: 72.9 lumens/watt
Spacing Criteria (0/90/45): 1.69 / 1.29 / 1.57
Luminous Opening: Rectangular w/ Sides (W: 1.92' x L: 0.38' x H: 0.52')
CIE Type: Direct

Input Watts (W): 44.9
Input Voltage (V): 120.03
Input Current (Ain): 0.37595
Voltage Rise (V): NR
Power Factor: 0.9993
Total Harmonic Distortion (THDi): 8.25%
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	0
RCR																		
0	117	117	117	117	113	113	113	113	106	106	106	99	99	99	93	93	93	90
1	103	97	91	86	99	94	89	84	88	83	80	82	79	75	77	74	72	69
2	92	83	74	68	89	80	72	66	75	68	63	70	65	60	65	61	57	54
3	83	71	62	55	80	69	60	53	65	57	51	60	54	49	57	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	44	38	50	42	36	47	40	35	44	39	34	31
6	64	50	40	33	61	48	39	32	45	37	31	43	36	30	40	34	29	27
7	59	45	35	29	57	43	35	28	41	33	27	39	32	27	36	30	26	23
8	55	41	32	25	53	39	31	25	37	30	24	35	28	24	33	27	23	21
9	51	37	28	23	49	36	28	22	34	27	22	32	26	21	31	25	20	18
10	48	34	26	20	46	33	25	20	31	24	19	30	23	19	28	23	18	17

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	10139	10139	10139
5°	10951	10014	7640
10°	11751	9810	5973
15°	12373	9582	4542
20°	12798	9340	3303
25°	13078	9078	2226
30°	13388	8804	1315
35°	13541	8494	621
40°	13524	8103	190
45°	13369	7627	0
50°	13127	6987	0
55°	12681	6207	9
60°	12084	5275	9
65°	11330	4276	18
70°	10683	3234	18
75°	9816	2270	19
80°	8851	1358	19
85°	7678	628	20



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.3	2.0
10°-20°	201.9	6.2
20°-30°	323.2	9.9
30°-40°	410.7	12.5
40°-50°	456.6	13.9
50°-60°	463.3	14.1
60°-70°	426.3	13.0
70°-80°	355.8	10.9
80°-90°	257.2	7.9
90°-100°	164.2	5.0
100°-110°	93.9	2.9
110°-120°	41.1	1.3
120°-130°	10.9	0.3
130°-140°	2.6	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°	591.4	18.1
0°-40°	1002.0	30.6
0°-60°	1921.8	58.7
0°-90°	2961.1	90.4
90°-120°	299.3	9.1
90°-150°	313.0	9.6
90°-180°	313.0	9.6
0°-180°	3274.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	677	677	677	677	677	
5°	817	776	682	604	570	82
15°	1095	969	663	470	402	313
25°	1304	1090	619	321	222	606
35°	1461	1131	553	173	67	915
45°	1508	1107	458	51	0	1165
55°	1449	1018	330	3	1	1295
65°	1272	878	191	3	2	1263
75°	1049	717	79	4	2	1107
85°	754	535	15	4	2	649
90°	631	433	5	4	2	347
95°	545	327	4	4	2	429
105°	375	161	4	4	2	397
115°	201	47	4	4	2	201
125°	55	2	5	4	2	55
135°	0	2	4	4	2	4
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°	677	677	677	677	677	677	677	677	677	677	677
2.5°	737	733	733	731	731	731	730	733	726	728	724
5°	817	814	813	814	806	805	802	801	793	786	776
7.5°	893	892	890	888	880	878	873	868	856	846	833
10°	962	958	959	953	944	941	936	928	914	901	884
12.5°	1029	1024	1022	1014	1005	1000	994	983	966	949	927
15°	1095	1092	1090	1081	1066	1060	1052	1037	1015	994	969
17.5°	1158	1152	1150	1139	1125	1118	1109	1089	1064	1037	1005
20°	1209	1205	1200	1190	1174	1166	1155	1134	1107	1075	1040
22.5°	1258	1255	1249	1236	1220	1208	1196	1171	1143	1108	1069
25°	1304	1301	1294	1279	1260	1247	1235	1205	1172	1133	1090
27.5°	1349	1346	1339	1322	1298	1284	1270	1236	1198	1155	1109
30°	1395	1392	1381	1362	1336	1319	1302	1262	1218	1171	1119
32.5°	1430	1426	1415	1396	1367	1350	1331	1288	1237	1184	1126
35°	1461	1454	1443	1421	1390	1370	1352	1306	1252	1194	1131
37.5°	1482	1477	1462	1437	1406	1384	1365	1317	1261	1201	1133
40°	1498	1492	1476	1449	1414	1395	1376	1331	1270	1201	1131
42.5°	1507	1500	1482	1453	1415	1396	1373	1330	1267	1194	1122
45°	1508	1501	1484	1450	1409	1387	1361	1308	1250	1184	1107
47.5°	1505	1498	1477	1443	1400	1375	1350	1294	1234	1167	1090
50°	1496	1488	1468	1433	1389	1362	1336	1278	1216	1145	1069
52.5°	1479	1470	1450	1416	1370	1345	1320	1259	1194	1121	1046
55°	1449	1444	1424	1391	1347	1322	1295	1236	1168	1094	1018
57.5°	1417	1410	1395	1361	1316	1293	1265	1206	1135	1063	988
60°	1374	1367	1351	1320	1279	1253	1227	1168	1097	1027	954
62.5°	1320	1319	1305	1277	1236	1212	1187	1127	1061	990	920
65°	1272	1267	1256	1229	1189	1165	1140	1085	1017	952	878
67.5°	1227	1221	1208	1180	1143	1119	1097	1040	976	911	840
70°	1175	1171	1159	1136	1098	1073	1054	994	934	870	800
72.5°	1115	1111	1099	1080	1045	1026	1004	950	891	828	759
75°	1049	1044	1035	1014	986	966	951	901	848	783	717
77.5°	981	977	966	948	923	909	892	848	799	740	674
80°	911	908	895	880	861	846	831	792	747	692	630
82.5°	833	833	822	810	795	783	767	732	693	641	585
85°	754	753	745	735	719	712	699	671	636	588	535
87.5°	686	684	675	664	651	642	629	604	575	533	485
90°	631	630	620	608	590	582	569	542	513	475	433
92.5°	587	585	574	562	544	533	518	489	455	416	379
95°	545	543	533	520	501	489	474	444	407	365	327
97.5°	504	502	492	478	460	447	433	401	363	321	279
100°	462	459	450	436	419	405	391	359	322	279	236
102.5°	419	417	409	395	376	364	349	319	281	239	198
105°	375	373	364	352	333	321	307	277	241	200	161
107.5°	331	330	323	309	291	279	266	237	202	165	127
110°	287	285	279	266	248	237	224	197	165	129	97



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	243	242	233	223	207	196	184	159	130	97	70
115°	201	199	191	181	166	156	145	122	97	69	47
117.5°	159	158	150	141	127	119	108	89	68	47	30
120°	120	119	113	105	92	85	76	61	44	29	18
122.5°	85	84	79	71	62	56	50	38	26	17	11
125°	55	55	50	46	38	34	29	22	15	10	2
127.5°	32	32	29	26	21	19	17	13	9	2	2
130°	17	17	15	14	12	10	9	3	1	2	2
132.5°	9	9	9	7	1	1	1	1	1	2	2
135°	0	0	0	1	1	1	1	1	1	2	2
137.5°	0	0	0	1	1	1	1	1	1	2	2
140°	0	0	0	1	1	1	1	1	1	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



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	677	677	677	677	677	677	677	677	677	677	677
2.5°	719	717	712	708	705	704	699	694	689	684	679
5°	766	758	746	735	729	725	714	703	693	682	672
7.5°	816	802	784	766	756	747	729	712	695	679	664
10°	863	843	820	796	782	770	744	720	697	676	656
12.5°	904	879	853	823	807	792	760	728	698	670	646
15°	940	911	879	847	828	810	772	734	696	663	633
17.5°	972	938	901	865	845	825	782	738	695	654	620
20°	1002	961	920	879	857	835	789	740	691	644	605
22.5°	1027	982	935	888	866	842	792	740	684	632	588
25°	1046	999	948	896	869	844	791	736	677	619	570
27.5°	1058	1009	955	899	871	842	786	730	669	604	550
30°	1066	1012	955	898	869	839	778	719	655	589	529
32.5°	1069	1011	951	891	862	831	768	706	643	571	507
35°	1067	1005	943	881	851	819	755	690	625	553	483
37.5°	1062	995	931	868	837	804	738	671	604	531	459
40°	1054	984	917	852	819	785	717	650	582	509	435
42.5°	1043	971	901	831	798	764	695	626	557	484	409
45°	1030	955	882	809	775	740	671	600	529	458	381
47.5°	1014	937	861	788	753	715	644	571	500	428	353
50°	993	916	839	764	726	688	614	541	469	397	324
52.5°	969	891	814	737	700	660	583	508	436	363	292
55°	941	865	788	710	672	630	552	475	402	330	260
57.5°	912	836	759	680	641	600	519	439	366	295	226
60°	879	804	726	650	611	567	486	404	328	259	193
62.5°	847	772	694	618	580	536	453	370	293	224	162
65°	809	736	660	585	545	504	420	336	259	191	130
67.5°	772	698	624	550	512	469	387	303	225	159	104
70°	731	659	586	512	476	436	353	270	193	129	79
72.5°	690	617	544	473	437	398	317	238	164	103	57
75°	647	574	501	431	396	359	281	208	135	79	40
77.5°	605	530	457	387	354	318	243	175	108	58	26
80°	562	487	413	344	310	277	206	143	83	40	16
82.5°	518	447	373	300	268	234	169	112	61	25	10
85°	472	402	330	258	226	195	134	84	41	15	6
87.5°	426	360	289	219	188	158	102	59	25	8	5
90°	378	316	248	182	152	125	74	38	14	5	5
92.5°	330	273	210	147	120	95	51	24	8	5	5
95°	282	228	173	116	92	69	34	14	5	4	5
97.5°	235	189	138	88	67	49	21	8	4	4	5
100°	192	149	105	63	46	31	13	5	4	4	5
102.5°	154	113	76	42	29	19	8	4	4	4	4
105°	121	82	51	26	18	12	4	4	4	4	4
107.5°	91	59	34	16	11	7	4	4	4	4	4
110°	65	39	20	10	6	4	4	4	4	4	4



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	44	24	13	4	3	4	4	4	4	4	4
115°	28	15	8	3	4	4	4	4	4	4	5
117.5°	17	10	3	3	4	4	4	4	4	5	5
120°	11	3	3	3	4	4	4	4	4	5	5
122.5°	3	3	3	3	3	4	4	4	4	5	5
125°	2	3	3	3	3	4	4	4	4	5	5
127.5°	2	3	3	3	3	4	4	4	4	4	5
130°	2	3	3	3	3	3	4	4	4	4	5
132.5°	2	3	3	3	3	4	4	4	4	4	5
135°	2	3	3	3	3	3	4	4	4	4	5
137.5°	2	3	3	3	3	4	4	4	4	5	5
140°	2	3	3	3	3	3	4	4	4	4	5
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	677	677	677	677	677	677	677	677	677	677	677
2.5°	673	668	662	660	657	653	647	644	638	634	630
5°	661	652	642	638	634	627	618	612	604	598	592
7.5°	650	636	622	617	611	599	589	582	571	564	556
10°	637	620	603	596	589	575	562	552	539	529	520
12.5°	623	602	583	575	565	549	533	520	505	495	483
15°	606	582	560	549	540	521	503	488	470	457	445
17.5°	588	561	535	526	513	492	472	454	435	421	405
20°	570	540	511	499	484	461	440	420	398	380	364
22.5°	549	516	485	472	456	430	405	382	360	339	323
25°	527	491	457	443	427	398	371	346	321	302	283
27.5°	503	464	428	413	397	364	336	310	286	264	242
30°	479	437	398	382	365	331	301	273	246	224	203
32.5°	454	408	369	351	331	296	265	236	210	185	165
35°	427	378	337	318	298	261	229	200	173	148	128
37.5°	399	347	302	284	264	226	194	164	138	114	95
40°	369	317	270	251	230	192	160	130	103	83	66
42.5°	341	285	237	217	197	158	127	99	75	56	42
45°	312	254	205	184	164	127	97	71	51	35	24
47.5°	283	223	173	152	133	98	70	48	31	20	13
50°	254	192	143	123	105	72	48	30	18	12	7
52.5°	224	163	115	96	79	50	30	18	11	4	2
55°	194	134	89	71	57	33	19	11	3	3	3
57.5°	165	108	66	51	39	21	12	4	3	3	3
60°	136	84	47	35	25	13	6	3	3	3	3
62.5°	108	62	32	23	16	9	4	4	3	3	3
65°	82	44	21	14	11	4	4	4	3	3	3
67.5°	60	29	13	10	5	5	4	4	4	4	3
70°	41	18	9	5	5	5	4	4	4	4	3
72.5°	27	11	5	5	5	5	4	4	4	4	3
75°	17	7	5	5	5	5	5	4	4	4	4
77.5°	11	5	5	5	5	5	5	5	4	4	4
80°	7	5	5	5	5	5	5	5	4	4	4
82.5°	5	5	5	5	5	5	5	5	4	4	4
85°	5	5	5	5	5	5	4	4	4	4	3
87.5°	5	5	5	5	5	5	5	4	4	4	4
90°	5	5	5	5	5	5	4	4	4	4	3
92.5°	5	5	5	5	5	5	4	4	4	4	3
95°	5	5	5	5	5	5	4	4	4	4	3
97.5°	5	5	5	5	5	5	4	4	4	4	3
100°	5	5	5	5	5	5	4	4	4	4	3
102.5°	5	5	5	4	4	4	4	4	4	3	3
105°	5	5	4	4	4	4	4	4	4	3	3
107.5°	4	5	4	4	4	4	4	4	4	3	3
110°	4	4	4	4	4	4	4	4	4	3	3



TEST NUMBER: P27011

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

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	4	5	4	4	5	4	4	4	4	3	3
115°	5	5	5	5	5	5	4	4	4	4	3
117.5°	5	5	5	5	5	5	4	4	4	4	3
120°	5	5	5	5	5	5	4	4	4	4	3
122.5°	5	5	5	5	5	5	4	4	4	4	3
125°	5	5	5	5	5	5	4	4	4	4	3
127.5°	5	5	5	5	5	5	4	4	4	4	3
130°	5	5	5	5	5	4	4	4	4	4	3
132.5°	5	5	5	5	5	4	4	4	4	4	3
135°	5	5	5	5	5	4	4	4	4	3	3
137.5°	5	5	5	5	5	5	4	4	4	4	3
140°	5	5	5	5	5	4	4	4	4	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-LD4-2HI-40-UNV-80/86

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	677	677	677	677	677	677	677	677
2.5°	627	623	622	620	617	615	615	616
5°	588	583	581	579	576	573	572	570
7.5°	550	544	542	539	536	533	531	528
10°	512	504	502	498	495	490	487	489
12.5°	473	464	460	456	450	448	444	445
15°	433	423	419	415	408	402	401	402
17.5°	392	381	377	372	364	360	356	358
20°	350	338	333	328	319	314	311	312
22.5°	308	293	289	282	274	269	266	267
25°	266	251	246	239	230	225	222	222
27.5°	225	209	204	197	187	182	179	178
30°	184	168	163	156	146	141	138	137
32.5°	145	131	124	119	109	103	100	100
35°	109	96	90	85	75	70	67	67
37.5°	77	66	60	56	47	43	41	40
40°	51	41	36	33	26	23	22	21
42.5°	30	22	19	17	14	11	11	10
45°	16	12	10	9	7	4	1	0
47.5°	9	4	2	2	1	1	1	0
50°	2	2	2	2	1	1	1	0
52.5°	2	2	2	2	1	1	1	1
55°	2	2	2	2	1	1	1	1
57.5°	2	2	2	2	2	1	1	1
60°	2	2	2	2	2	1	1	1
62.5°	3	2	2	2	2	1	1	1
65°	3	2	2	2	2	2	2	2
67.5°	3	3	2	2	2	2	2	2
70°	3	3	3	2	2	2	2	2
72.5°	3	3	3	3	2	2	2	2
75°	3	3	3	3	3	2	2	2
77.5°	3	3	3	3	3	2	2	2
80°	4	3	3	3	3	3	2	2
82.5°	3	3	3	3	3	2	2	2
85°	3	3	3	3	2	2	2	2
87.5°	3	3	3	3	2	2	2	2
90°	3	3	3	3	2	2	2	2
92.5°	3	3	3	2	2	2	2	2
95°	3	3	3	2	2	2	2	2
97.5°	3	3	3	2	2	2	2	2
100°	3	3	2	2	2	2	2	2
102.5°	3	2	2	2	2	2	2	2
105°	3	2	2	2	2	2	2	2
107.5°	3	2	2	2	2	2	2	2
110°	3	2	2	2	2	2	1	1



TEST NUMBER: P27011

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

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
112.5°	3	2	2	2	2	2	2	1
115°	3	3	2	2	2	2	2	2
117.5°	3	3	3	2	2	2	2	2
120°	3	3	3	2	2	2	2	2
122.5°	3	3	3	2	2	2	2	2
125°	3	3	3	2	2	2	2	2
127.5°	3	3	2	2	2	2	2	2
130°	3	3	2	2	2	2	2	2
132.5°	3	3	2	2	2	2	2	2
135°	3	2	2	2	2	2	2	2
137.5°	3	3	2	2	2	2	2	2
140°	3	3	2	2	2	2	2	2
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)