

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: CORELITE

Report Number: G3-1803-682-1

Luminaire Tested: **HGL-S-BA-40L835-UNV-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: G3-1803-682-1
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: HGL-S-BA-40L835-UNV-4
Description: HUGO 4 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH AISLE OPTIC
Light Source: (168) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

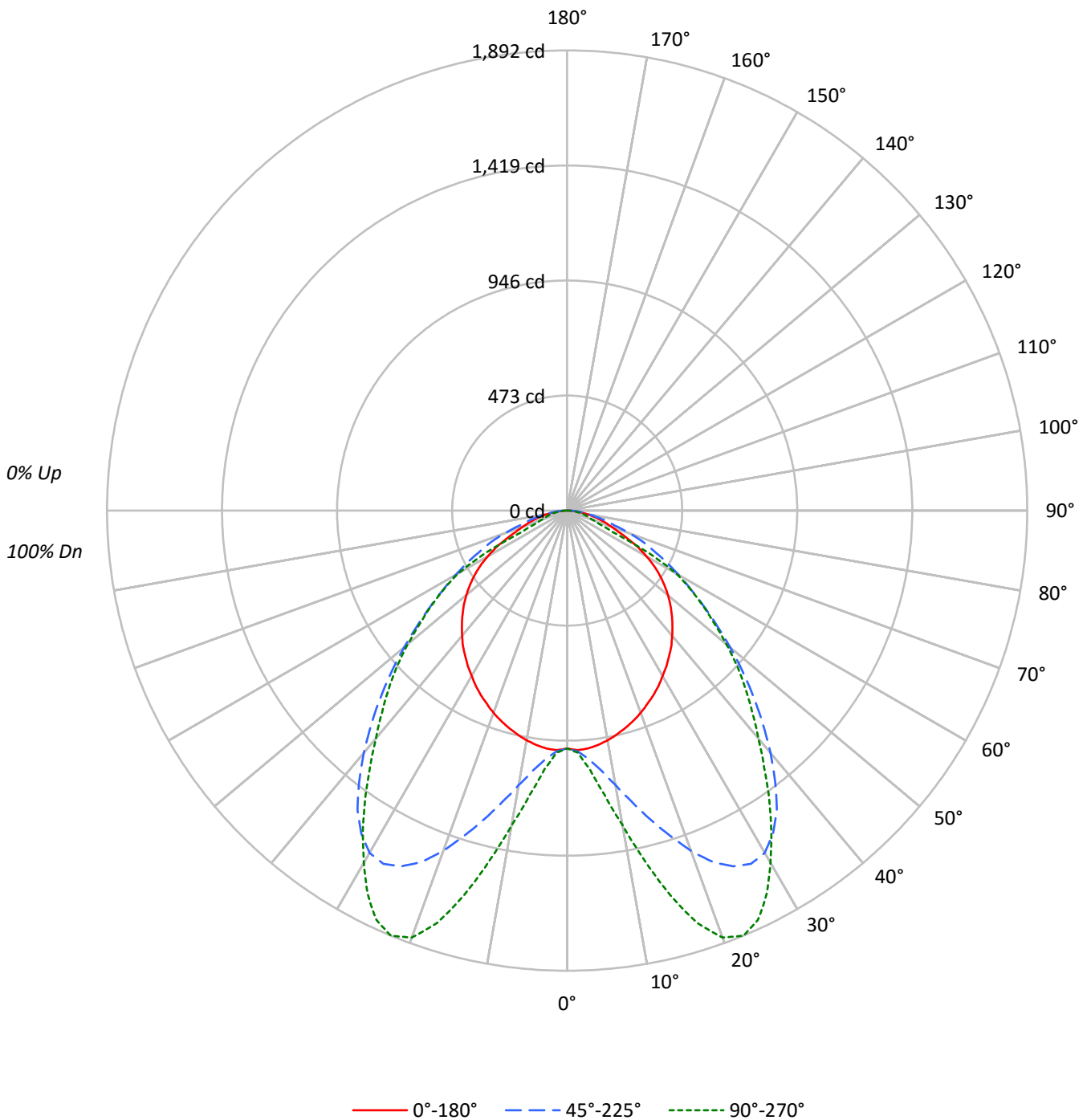
Lumens per Lamp: N/A
Luminaire Lumens: 3820.3 lumens
Efficiency: N/A
Efficacy: 128.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.77 / 1.65
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 29.7
Input Voltage (V): 120
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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86				86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73				73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63				63
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54				54
5	78	66	57	51	76	65	57	51	63	55	50	61	54	50	59	53	49	47				47
6	72	59	51	44	70	58	50	44	57	49	44	55	48	44	53	48	43	41				41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	39	49	43	38	36				36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	32				32
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29				29
10	54	41	34	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26				26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9023	9023	9023
5°	9095	9493	9891
10°	8984	10736	12320
15°	8835	12532	15636
20°	8689	14610	18341
25°	8531	16431	18904
30°	8363	17312	17813
35°	8233	16928	16309
40°	8094	15669	14742
45°	7946	14144	13544
50°	7765	12559	12272
55°	7480	11035	10954
60°	6975	9780	9558
65°	6047	8580	4344
70°	5206	7364	3075
75°	4777	5882	2887
80°	4304	5048	2710
85°	3599	5081	2223



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.4	2.7
10°-20°	369.8	9.7
20°-30°	669.3	17.5
30°-40°	803.3	21.0
40°-50°	761.0	19.9
50°-60°	596.2	15.6
60°-70°	332.8	8.7
70°-80°	141.0	3.7
80°-90°	43.9	1.1
90°-100°	1.6	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°	1140.5	29.9
0°-40°	1943.8	50.9
0°-60°	3301.0	86.4
0°-90°	3818.7	100.0
90°-120°	1.6	0.0
90°-150°	1.6	0.0
90°-180°	2.0	0.1
0°-180°	3820.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	978	978	978	978	978	
5°	982	986	1025	1059	1068	93
15°	925	1036	1312	1553	1637	261
25°	838	1101	1614	1811	1857	386
35°	731	1126	1503	1440	1448	457
45°	609	1031	1084	1008	1038	470
55°	465	749	686	664	681	414
65°	277	346	393	316	199	277
75°	134	139	165	117	81	143
85°	34	39	48	37	21	38
90°	0	8	15	10	0	2
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
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: HGL-S-BA-40L835-UNV-4

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	978	978	978	978	978	978	978	978	978	978	978
2.5°	986	985	982	978	979	980	980	981	982	985	991
5°	982	980	979	978	983	986	989	995	1002	1013	1025
7.5°	972	972	974	978	989	996	1002	1017	1034	1055	1078
10°	959	961	967	976	996	1007	1019	1044	1073	1108	1146
12.5°	943	947	957	974	1004	1021	1039	1077	1120	1170	1226
15°	925	930	946	971	1012	1036	1061	1113	1172	1239	1312
17.5°	906	913	935	970	1023	1053	1085	1153	1229	1310	1400
20°	885	895	923	968	1033	1070	1109	1194	1287	1383	1488
22.5°	861	874	909	964	1043	1087	1133	1232	1340	1449	1563
25°	838	852	893	959	1051	1101	1154	1267	1388	1503	1614
27.5°	813	829	878	954	1057	1113	1172	1296	1423	1537	1637
30°	785	806	861	946	1060	1122	1186	1319	1445	1545	1625
32.5°	759	782	842	937	1061	1127	1195	1326	1445	1527	1575
35°	731	756	823	926	1057	1126	1194	1324	1424	1480	1503
37.5°	703	730	803	911	1048	1119	1187	1304	1381	1411	1405
40°	672	702	777	892	1032	1101	1166	1269	1318	1323	1301
42.5°	641	672	751	867	1005	1071	1131	1213	1236	1225	1191
45°	609	641	720	837	971	1031	1081	1140	1140	1120	1084
47.5°	576	607	687	802	927	979	1020	1055	1039	1014	978
50°	541	572	650	760	870	913	947	960	935	907	875
52.5°	504	535	606	707	803	835	860	859	829	804	776
55°	465	493	557	644	723	749	764	752	724	701	686
57.5°	424	447	502	573	632	652	661	645	625	611	603
60°	378	397	436	491	534	548	554	543	536	532	530
62.5°	330	339	364	400	436	446	453	455	454	456	461
65°	277	280	288	306	334	346	359	373	381	389	393
67.5°	228	229	233	239	250	263	274	295	313	328	338
70°	193	192	193	196	202	207	212	227	246	271	273
72.5°	163	162	163	165	167	169	172	178	189	204	207
75°	134	134	134	136	138	139	141	143	147	158	165
77.5°	107	106	108	109	110	112	113	115	117	121	126
80°	81	80	81	83	84	86	86	89	90	93	95
82.5°	57	56	57	59	59	61	62	64	66	68	70
85°	34	34	35	36	37	39	40	43	45	47	48
87.5°	15	15	16	17	19	21	22	24	26	29	29
90°	0	1	3	5	6	8	8	11	12	14	15
92.5°	0	0	0	0	0	0	1	1	2	3	4
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: HGL-S-BA-40L835-UNV-4

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



TEST NUMBER: G3-1803-682-1

CATALOG NUMBER: HGL-S-BA-40L835-UNV-4

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	978	978	978	978	978	978	978	978	978	978
2.5°	1000	994	998	999	1000	998	996	998	996	996
5°	1040	1039	1049	1056	1059	1059	1065	1069	1070	1068
7.5°	1103	1109	1129	1143	1151	1155	1166	1172	1180	1179
10°	1186	1205	1235	1255	1269	1276	1292	1303	1316	1315
12.5°	1277	1312	1354	1386	1407	1420	1441	1461	1473	1474
15°	1380	1428	1485	1526	1553	1570	1599	1619	1639	1637
17.5°	1481	1539	1608	1662	1687	1703	1738	1759	1778	1778
20°	1571	1638	1708	1758	1782	1798	1828	1849	1863	1868
22.5°	1643	1705	1764	1807	1822	1835	1858	1875	1884	1892
25°	1683	1733	1773	1803	1811	1818	1831	1844	1846	1857
27.5°	1684	1721	1743	1754	1755	1755	1764	1769	1773	1777
30°	1648	1665	1669	1670	1665	1662	1668	1669	1672	1672
32.5°	1576	1580	1573	1562	1559	1553	1557	1555	1560	1563
35°	1484	1477	1459	1451	1440	1437	1440	1438	1441	1448
37.5°	1379	1364	1349	1335	1327	1319	1322	1325	1329	1331
40°	1271	1251	1235	1221	1213	1207	1212	1215	1224	1224
42.5°	1162	1140	1124	1115	1109	1104	1112	1114	1125	1127
45°	1054	1035	1022	1013	1008	1010	1018	1023	1033	1038
47.5°	955	939	925	921	921	923	931	936	944	950
50°	858	846	837	832	833	836	843	847	855	855
52.5°	763	755	751	745	745	744	751	755	761	762
55°	680	673	669	665	664	666	670	673	680	681
57.5°	601	598	595	592	591	592	594	596	600	601
60°	529	528	524	521	520	519	518	517	519	518
62.5°	463	460	457	451	448	440	430	408	390	380
65°	398	396	382	341	316	284	250	217	206	199
67.5°	335	302	252	216	203	191	173	155	145	139
70°	241	213	190	170	161	154	140	127	118	114
72.5°	195	177	162	147	140	132	118	105	97	93
75°	163	152	137	123	117	111	101	91	84	81
77.5°	129	123	114	103	98	94	85	78	71	68
80°	95	93	87	79	75	72	65	59	53	51
82.5°	70	68	63	57	55	52	47	42	38	36
85°	48	47	43	39	37	35	30	26	23	21
87.5°	30	29	27	23	21	19	15	12	9	8
90°	15	15	14	11	10	9	6	3	1	0
92.5°	4	4	4	3	3	2	1	0	0	0
95°	0	0	0	0	0	0	0	0	0	0
97.5°	0	0	0	0	0	0	0	0	0	0
100°	0	0	0	0	0	0	0	0	0	0
102.5°	0	0	0	0	0	0	0	0	0	0
105°	0	0	0	0	0	0	0	0	0	0
107.5°	0	0	0	0	0	0	0	0	0	0
110°	0	0	0	0	0	0	0	0	0	0



TEST NUMBER: G3-1803-682-1

CATALOG NUMBER: HGL-S-BA-40L835-UNV-4

CANDELA DISTRIBUTION (continued):

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

(END OF REPORT)