

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: P257108

Luminaire Tested: **HGL-S-UF-30L840-UNV-12**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P257108  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1708-204-13)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: HGL-S-UF-30L840-UNV-12  
Description: HUGO 12 FOOT LINEAR LED LUMINAIRE WITH FROSTED LENS WITH UPLIGHT  
Light Source: (504) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

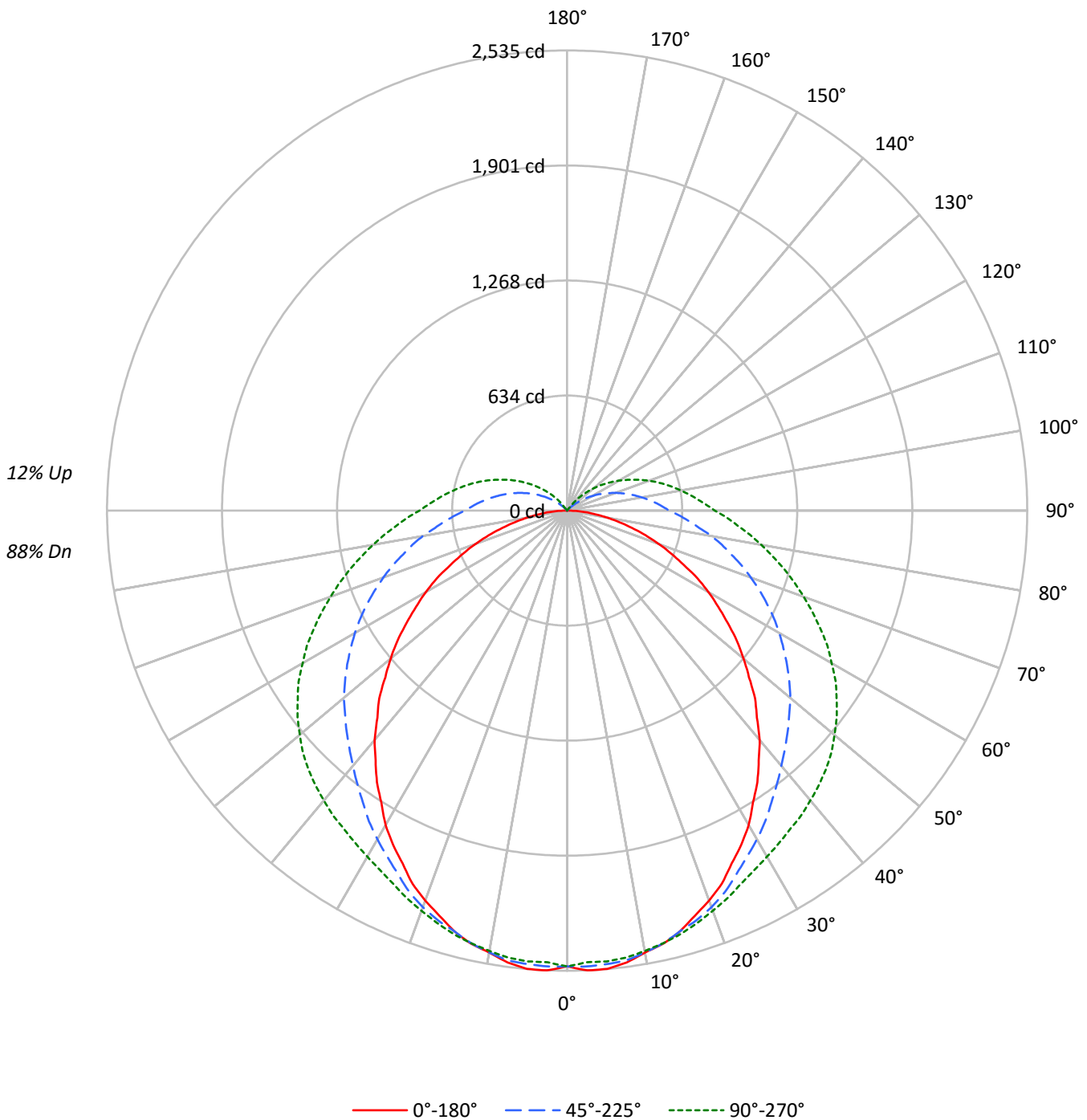
Lumens per Lamp: N/A  
Luminaire Lumens: 9696.5 lumens  
Efficiency: N/A  
Efficacy: 148.9 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.32 / 1.4  
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 12' x H: 0.1')  
CIE Type: Semi-Direct

Input Watts (W): 65.1  
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	116	116	116	116	112	112	112	112	105	105	105	98	98	98	91	91	91	88				
1	103	97	92	87	99	94	89	85	87	84	80	81	78	75	76	73	71	68				
2	93	84	76	69	89	81	73	67	75	69	64	70	65	61	65	61	58	55				
3	84	73	64	56	81	70	62	55	65	58	53	61	55	50	57	52	48	45				
4	77	64	54	47	73	62	53	46	58	50	44	54	48	42	50	45	41	38				
5	70	57	47	40	67	55	46	39	51	44	38	48	42	36	45	39	35	32				
6	65	51	42	35	62	49	41	34	46	39	33	43	37	32	41	35	31	28				
7	60	46	37	31	58	45	36	30	42	34	29	39	33	28	37	31	27	25				
8	56	42	33	27	54	41	32	27	38	31	26	36	30	25	34	28	24	22				
9	52	38	30	24	50	37	29	24	35	28	23	33	27	22	31	26	22	20				
10	49	35	27	22	47	34	27	22	33	26	21	31	25	20	29	24	20	18				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	9828	9828	9828
5°	9953	9580	9421
10°	9810	9289	9063
15°	9703	8941	8724
20°	9492	8653	8385
25°	9226	8272	8082
30°	8999	7948	7883
35°	8677	7626	7764
40°	8370	7359	7712
45°	8034	7168	7672
50°	7648	7029	7595
55°	7280	6876	7498
60°	6941	6743	7371
65°	6437	6610	7218
70°	6002	6487	7053
75°	5405	6369	6932
80°	4769	6366	6842
85°	4045	6390	6828



TEST NUMBER: P257108

CATALOG NUMBER: HGL-S-UF-30L840-UNV-12

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	237.8	2.5
10°-20°	676.3	7.0
20°-30°	1014.7	10.5
30°-40°	1232.0	12.7
40°-50°	1330.7	13.7
50°-60°	1303.3	13.4
60°-70°	1156.0	11.9
70°-80°	926.0	9.5
80°-90°	671.1	6.9
90°-100°	473.0	4.9
100°-110°	329.9	3.4
110°-120°	204.2	2.1
120°-130°	103.9	1.1
130°-140°	36.0	0.4
140°-150°	1.7	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1928.8	19.9
0°-40°	3160.8	32.6
0°-60°	5794.8	59.8
0°-90°	8547.8	88.2
90°-120°	1007.1	10.4
90°-150°	1148.7	11.8
90°-180°	1149.0	11.8
0°-180°	9696.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2511	2511	2511	2511	2511	
5°	2535	2511	2508	2496	2493	240
15°	2400	2382	2400	2421	2415	675
25°	2145	2151	2208	2244	2268	990
35°	1827	1839	1962	2079	2142	1141
45°	1464	1503	1719	1932	2016	1125
55°	1080	1170	1479	1722	1812	968
65°	708	876	1215	1449	1539	707
75°	369	603	936	1161	1236	394
85°	99	369	675	876	942	107
90°	3	270	561	747	813	7
95°	0	213	489	663	720	0
105°	0	114	351	507	558	0
115°	0	36	222	357	402	0
125°	0	0	108	219	258	0
135°	0	0	18	96	126	1
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



TEST NUMBER: P257108

CATALOG NUMBER: HGL-S-UF-30L840-UNV-12

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2511	2511	2511	2511	2511	2511	2511	2511	2511	2511	2511
2.5°	2535	2532	2523	2514	2511	2511	2508	2505	2505	2502	2514
5°	2535	2532	2523	2511	2508	2511	2508	2502	2502	2499	2508
7.5°	2511	2505	2499	2490	2487	2487	2484	2484	2484	2484	2499
10°	2472	2469	2463	2454	2454	2451	2451	2454	2454	2457	2472
12.5°	2445	2439	2430	2421	2418	2418	2415	2412	2415	2418	2442
15°	2400	2397	2391	2382	2382	2382	2382	2379	2379	2382	2400
17.5°	2340	2334	2331	2325	2328	2331	2334	2331	2337	2346	2367
20°	2286	2280	2274	2265	2265	2268	2271	2271	2286	2298	2325
22.5°	2226	2223	2217	2214	2214	2217	2217	2211	2220	2238	2274
25°	2145	2142	2139	2139	2145	2151	2154	2157	2166	2178	2208
27.5°	2076	2073	2067	2061	2067	2073	2076	2082	2100	2124	2148
30°	2001	1998	1995	1995	2001	2004	2007	2004	2028	2064	2091
32.5°	1905	1902	1905	1905	1920	1929	1935	1938	1959	1992	2031
35°	1827	1827	1824	1830	1833	1839	1845	1860	1890	1923	1962
37.5°	1734	1734	1734	1749	1761	1764	1767	1785	1824	1857	1899
40°	1650	1650	1650	1656	1665	1674	1686	1707	1746	1794	1836
42.5°	1548	1551	1557	1572	1584	1590	1599	1632	1674	1731	1776
45°	1464	1461	1467	1479	1491	1503	1518	1554	1605	1668	1719
47.5°	1359	1362	1368	1389	1404	1419	1437	1479	1539	1602	1659
50°	1269	1272	1287	1299	1314	1332	1353	1407	1473	1536	1605
52.5°	1179	1182	1194	1203	1227	1248	1275	1335	1404	1473	1542
55°	1080	1086	1095	1116	1146	1170	1200	1266	1335	1410	1479
57.5°	987	990	1005	1026	1062	1092	1128	1197	1272	1344	1413
60°	900	906	915	942	990	1020	1056	1128	1206	1278	1350
62.5°	810	816	828	858	915	948	987	1062	1140	1212	1284
65°	708	714	732	771	840	876	915	993	1068	1143	1215
67.5°	621	624	648	690	762	807	849	924	999	1074	1146
70°	537	543	561	618	696	732	777	858	933	1008	1077
72.5°	453	459	486	549	630	669	705	792	867	939	1008
75°	369	378	414	486	564	603	642	720	801	870	936
77.5°	294	303	348	423	501	540	579	654	729	804	873
80°	222	234	288	363	441	480	516	594	666	735	807
82.5°	159	174	237	309	387	423	459	534	606	672	735
85°	99	126	189	258	333	369	405	480	549	615	675
87.5°	48	84	144	210	282	318	354	426	492	558	618
90°	3	48	102	165	237	270	306	375	441	504	561
92.5°	0	30	81	141	207	243	276	345	408	471	525
95°	0	15	63	120	183	213	246	312	375	435	489
97.5°	0	3	45	96	156	189	219	282	345	402	453
100°	0	0	30	78	132	162	192	252	312	366	417
102.5°	0	0	15	60	111	138	165	225	282	336	384
105°	0	0	3	42	90	114	141	195	252	303	351
107.5°	0	0	0	24	69	93	117	168	222	270	315
110°	0	0	0	12	51	72	96	144	192	240	285



TEST NUMBER: P257108

CATALOG NUMBER: HGL-S-UF-30L840-UNV-12

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	0	0	0	3	33	54	75	120	165	210	252
115°	0	0	0	0	18	36	54	96	138	183	222
117.5°	0	0	0	0	6	21	36	75	114	153	192
120°	0	0	0	0	0	9	21	54	90	126	162
122.5°	0	0	0	0	0	0	6	33	66	102	135
125°	0	0	0	0	0	0	0	18	45	78	108
127.5°	0	0	0	0	0	0	0	6	27	54	81
130°	0	0	0	0	0	0	0	0	12	33	57
132.5°	0	0	0	0	0	0	0	0	3	18	36
135°	0	0	0	0	0	0	0	0	0	6	18
137.5°	3	0	0	0	0	0	0	0	0	0	6
140°	3	3	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: P257108

CATALOG NUMBER: HGL-S-UF-30L840-UNV-12

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	2511	2511	2511	2511	2511	2511	2511	2511	2511	2511
2.5°	2523	2511	2511	2508	2505	2502	2496	2493	2487	2490
5°	2517	2505	2505	2499	2496	2496	2493	2493	2490	2493
7.5°	2508	2493	2493	2487	2484	2481	2481	2481	2481	2484
10°	2484	2475	2475	2472	2469	2463	2460	2463	2460	2463
12.5°	2451	2442	2448	2448	2448	2442	2439	2442	2439	2442
15°	2409	2406	2415	2418	2421	2418	2415	2415	2415	2415
17.5°	2367	2364	2376	2382	2382	2382	2382	2379	2379	2382
20°	2331	2319	2325	2337	2340	2340	2343	2346	2346	2346
22.5°	2280	2274	2277	2286	2292	2295	2304	2304	2307	2310
25°	2220	2229	2232	2241	2244	2250	2262	2268	2268	2268
27.5°	2157	2175	2187	2193	2199	2205	2220	2232	2232	2232
30°	2097	2115	2139	2151	2157	2163	2184	2199	2202	2202
32.5°	2034	2058	2094	2112	2115	2124	2151	2169	2172	2172
35°	1980	2010	2049	2073	2079	2088	2118	2139	2142	2142
37.5°	1932	1962	2004	2037	2043	2055	2085	2112	2115	2118
40°	1878	1914	1956	1995	2007	2019	2052	2079	2085	2085
42.5°	1824	1869	1911	1956	1971	1983	2019	2046	2052	2052
45°	1767	1824	1866	1914	1932	1944	1977	2007	2016	2016
47.5°	1716	1776	1818	1866	1884	1902	1932	1962	1971	1974
50°	1659	1725	1767	1812	1836	1854	1884	1917	1926	1923
52.5°	1602	1665	1710	1758	1782	1800	1827	1863	1872	1872
55°	1542	1605	1653	1698	1722	1746	1773	1803	1815	1812
57.5°	1482	1539	1590	1638	1659	1683	1710	1740	1749	1755
60°	1419	1470	1527	1572	1593	1617	1644	1671	1686	1683
62.5°	1350	1407	1461	1503	1524	1548	1575	1599	1611	1617
65°	1281	1335	1386	1431	1449	1473	1503	1521	1536	1539
67.5°	1209	1263	1314	1362	1380	1401	1428	1446	1461	1464
70°	1137	1194	1245	1290	1308	1326	1353	1371	1386	1386
72.5°	1068	1125	1173	1218	1236	1251	1278	1296	1308	1311
75°	999	1053	1101	1146	1161	1179	1203	1221	1233	1236
77.5°	930	987	1032	1074	1089	1104	1131	1146	1158	1158
80°	864	918	963	1002	1014	1032	1056	1071	1080	1086
82.5°	801	852	894	930	948	960	984	999	1008	1014
85°	732	786	828	864	876	894	915	930	939	942
87.5°	669	717	759	801	816	828	849	864	873	879
90°	615	660	699	732	747	762	786	801	810	813
92.5°	576	621	657	690	705	717	738	753	762	765
95°	540	582	618	651	663	675	696	708	714	720
97.5°	501	546	579	609	624	633	654	666	675	678
100°	465	507	540	573	585	594	615	627	633	636
102.5°	429	471	504	534	546	555	573	585	594	597
105°	393	432	465	495	507	516	534	546	555	558
107.5°	360	396	429	456	468	477	495	507	516	519
110°	327	360	393	420	432	441	459	468	477	480





TEST NUMBER: P257108

CATALOG NUMBER: HGL-S-UF-30L840-UNV-12

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	291	327	357	384	393	405	420	432	438	441
115°	261	294	321	348	357	366	384	393	402	402
117.5°	228	258	288	312	321	330	348	357	363	366
120°	198	225	252	276	288	294	312	321	327	330
122.5°	168	195	222	243	252	261	276	285	291	294
125°	138	165	189	210	219	228	240	249	255	258
127.5°	111	135	159	177	186	195	207	216	222	225
130°	84	105	129	147	156	162	174	183	189	192
132.5°	57	78	99	117	126	132	144	150	156	159
135°	36	54	72	87	96	102	114	120	126	126
137.5°	18	33	48	60	66	75	84	90	93	96
140°	6	15	27	36	42	48	57	63	66	69
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)