

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: P256914

Luminaire Tested: **HGL-S-BA-40L835-UNV-12**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256914
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (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-12
Description: HUGO 12 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH AISLE OPTIC
Light Source: (504) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

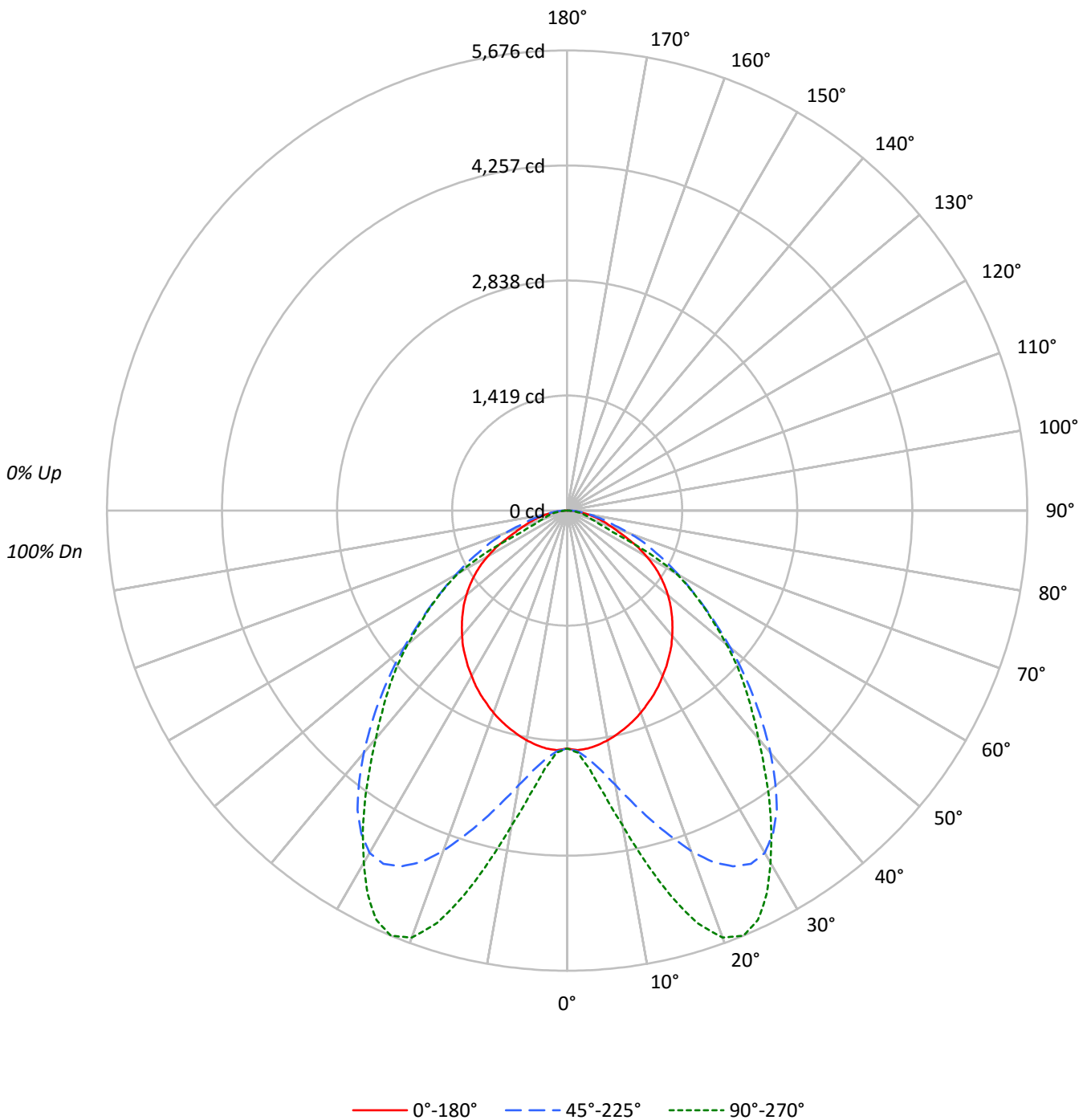
Lumens per Lamp: N/A
Luminaire Lumens: 11460.8 lumens
Efficiency: N/A
Efficacy: 133.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.77 / 1.65
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 12' x H: 0.01')
CIE Type: Direct

Input Watts (W): 85.7
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	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				
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75					73				
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65					63				
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56					54				
5	78	66	57	51	76	65	57	51	63	55	50	61	54	50	59	53	49					47				
6	72	59	51	44	70	58	50	44	57	49	44	55	48	44	53	48	43					41				
7	67	54	45	39	65	53	45	39	51	44	39	50	43	39	49	43	38					36				
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34					32				
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31					29				
10	54	41	34	28	53	41	33	28	40	33	28	39	32	28	38	32	28					26				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11484	11484	11484
5°	11574	12049	12541
10°	11433	13589	15560
15°	11242	15816	19670
20°	11056	18384	22978
25°	10853	20609	23580
30°	10639	21640	22114
35°	10473	21081	20141
40°	10294	19430	18100
45°	10105	17452	16517
50°	9873	15407	14847
55°	9508	13440	13124
60°	8864	11804	11310
65°	7683	10230	5056
70°	6611	8627	3495
75°	6061	6700	3160
80°	5452	5452	2765
85°	4538	4757	1888



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	304.1	2.7
10°-20°	1109.4	9.7
20°-30°	2008.0	17.5
30°-40°	2409.8	21.0
40°-50°	2282.9	19.9
50°-60°	1788.7	15.6
60°-70°	998.3	8.7
70°-80°	423.1	3.7
80°-90°	131.6	1.1
90°-100°	4.7	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°	3421.6	29.9
0°-40°	5831.4	50.9
0°-60°	9903.1	86.4
0°-90°	11456.0	100.0
90°-120°	4.7	0.0
90°-150°	4.7	0.0
90°-180°	5.0	0.0
0°-180°	11460.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2934	2934	2934	2934	2934	
5°	2946	2958	3075	3177	3204	279
15°	2775	3108	3936	4659	4911	783
25°	2514	3303	4842	5433	5571	1158
35°	2193	3378	4509	4320	4344	1372
45°	1827	3093	3252	3024	3114	1409
55°	1395	2247	2058	1992	2043	1242
65°	831	1038	1179	948	597	831
75°	402	417	495	351	243	428
85°	102	117	144	111	63	113
90°	0	24	45	30	0	6
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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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2934	2934	2934	2934	2934	2934	2934	2934	2934	2934	2934
2.5°	2958	2955	2946	2934	2937	2940	2940	2943	2946	2955	2973
5°	2946	2940	2937	2934	2949	2958	2967	2985	3006	3039	3075
7.5°	2916	2916	2922	2934	2967	2988	3006	3051	3102	3165	3234
10°	2877	2883	2901	2928	2988	3021	3057	3132	3219	3324	3438
12.5°	2829	2841	2871	2922	3012	3063	3117	3231	3360	3510	3678
15°	2775	2790	2838	2913	3036	3108	3183	3339	3516	3717	3936
17.5°	2718	2739	2805	2910	3069	3159	3255	3459	3687	3930	4200
20°	2655	2685	2769	2904	3099	3210	3327	3582	3861	4149	4464
22.5°	2583	2622	2727	2892	3129	3261	3399	3696	4020	4347	4689
25°	2514	2556	2679	2877	3153	3303	3462	3801	4164	4509	4842
27.5°	2439	2487	2634	2862	3171	3339	3516	3888	4269	4611	4911
30°	2355	2418	2583	2838	3180	3366	3558	3957	4335	4635	4875
32.5°	2277	2346	2526	2811	3183	3381	3585	3978	4335	4581	4725
35°	2193	2268	2469	2778	3171	3378	3582	3972	4272	4440	4509
37.5°	2109	2190	2409	2733	3144	3357	3561	3912	4143	4233	4215
40°	2016	2106	2331	2676	3096	3303	3498	3807	3954	3969	3903
42.5°	1923	2016	2253	2601	3015	3213	3393	3639	3708	3675	3573
45°	1827	1923	2160	2511	2913	3093	3243	3420	3420	3360	3252
47.5°	1728	1821	2061	2406	2781	2937	3060	3165	3117	3042	2934
50°	1623	1716	1950	2280	2610	2739	2841	2880	2805	2721	2625
52.5°	1512	1605	1818	2121	2409	2505	2580	2577	2487	2412	2328
55°	1395	1479	1671	1932	2169	2247	2292	2256	2172	2103	2058
57.5°	1272	1341	1506	1719	1896	1956	1983	1935	1875	1833	1809
60°	1134	1191	1308	1473	1602	1644	1662	1629	1608	1596	1590
62.5°	990	1017	1092	1200	1308	1338	1359	1365	1362	1368	1383
65°	831	840	864	918	1002	1038	1077	1119	1143	1167	1179
67.5°	684	687	699	717	750	789	822	885	939	984	1014
70°	579	576	579	588	606	621	636	681	738	813	819
72.5°	489	486	489	495	501	507	516	534	567	612	621
75°	402	402	402	408	414	417	423	429	441	474	495
77.5°	321	318	324	327	330	336	339	345	351	363	378
80°	243	240	243	249	252	258	258	267	270	279	285
82.5°	171	168	171	177	177	183	186	192	198	204	210
85°	102	102	105	108	111	117	120	129	135	141	144
87.5°	45	45	48	51	57	63	66	72	78	87	87
90°	0	3	9	15	18	24	24	33	36	42	45
92.5°	0	0	0	0	0	0	3	3	6	9	12
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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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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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	2934	2934	2934	2934	2934	2934	2934	2934	2934	2934
2.5°	3000	2982	2994	2997	3000	2994	2988	2994	2988	2988
5°	3120	3117	3147	3168	3177	3177	3195	3207	3210	3204
7.5°	3309	3327	3387	3429	3453	3465	3498	3516	3540	3537
10°	3558	3615	3705	3765	3807	3828	3876	3909	3948	3945
12.5°	3831	3936	4062	4158	4221	4260	4323	4383	4419	4422
15°	4140	4284	4455	4578	4659	4710	4797	4857	4917	4911
17.5°	4443	4617	4824	4986	5061	5109	5214	5277	5334	5334
20°	4713	4914	5124	5274	5346	5394	5484	5547	5589	5604
22.5°	4929	5115	5292	5421	5466	5505	5574	5625	5652	5676
25°	5049	5199	5319	5409	5433	5454	5493	5532	5538	5571
27.5°	5052	5163	5229	5262	5265	5265	5292	5307	5319	5331
30°	4944	4995	5007	5010	4995	4986	5004	5007	5016	5016
32.5°	4728	4740	4719	4686	4677	4659	4671	4665	4680	4689
35°	4452	4431	4377	4353	4320	4311	4320	4314	4323	4344
37.5°	4137	4092	4047	4005	3981	3957	3966	3975	3987	3993
40°	3813	3753	3705	3663	3639	3621	3636	3645	3672	3672
42.5°	3486	3420	3372	3345	3327	3312	3336	3342	3375	3381
45°	3162	3105	3066	3039	3024	3030	3054	3069	3099	3114
47.5°	2865	2817	2775	2763	2763	2769	2793	2808	2832	2850
50°	2574	2538	2511	2496	2499	2508	2529	2541	2565	2565
52.5°	2289	2265	2253	2235	2235	2232	2253	2265	2283	2286
55°	2040	2019	2007	1995	1992	1998	2010	2019	2040	2043
57.5°	1803	1794	1785	1776	1773	1776	1782	1788	1800	1803
60°	1587	1584	1572	1563	1560	1557	1554	1551	1557	1554
62.5°	1389	1380	1371	1353	1344	1320	1290	1224	1170	1140
65°	1194	1188	1146	1023	948	852	750	651	618	597
67.5°	1005	906	756	648	609	573	519	465	435	417
70°	723	639	570	510	483	462	420	381	354	342
72.5°	585	531	486	441	420	396	354	315	291	279
75°	489	456	411	369	351	333	303	273	252	243
77.5°	387	369	342	309	294	282	255	234	213	204
80°	285	279	261	237	225	216	195	177	159	153
82.5°	210	204	189	171	165	156	141	126	114	108
85°	144	141	129	117	111	105	90	78	69	63
87.5°	90	87	81	69	63	57	45	36	27	24
90°	45	45	42	33	30	27	18	9	3	0
92.5°	12	12	12	9	9	6	3	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



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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)