

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: G2-1708-204-13

Luminaire Tested: **HGL-S-UF-30L840-UNV-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: 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-4
Description: HUGO 4 FOOT LINEAR LED LUMINAIRE WITH FROSTED LENS WITH UPLIGHT
Light Source: (168) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3232.2 lumens
Efficiency: N/A
Efficacy: 138.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.32 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

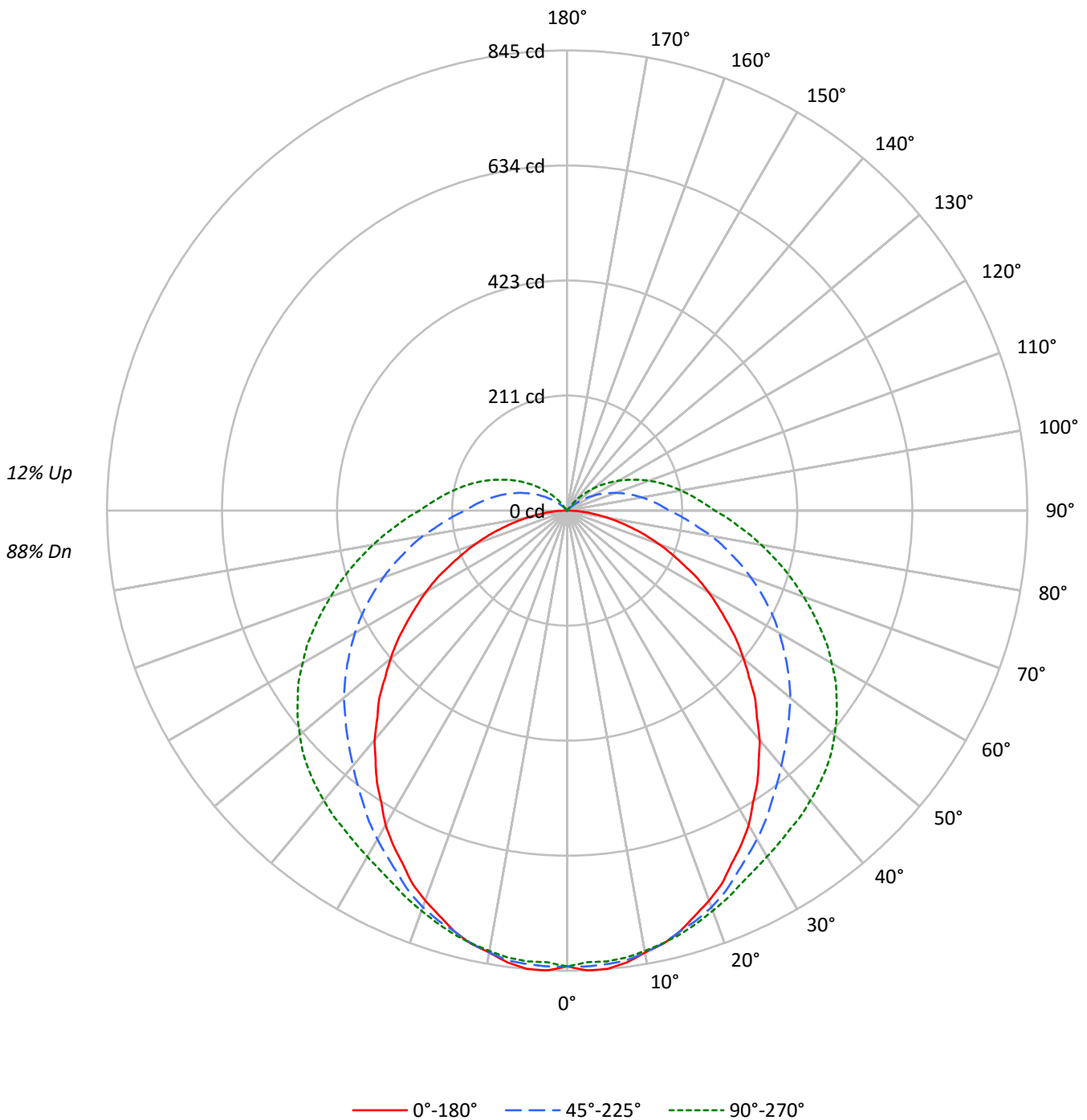
Input Watts (W): 23.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	7722	7722	7722
5°	7808	7563	7463
10°	7684	7368	7236
15°	7588	7124	7018
20°	7411	6926	6795
25°	7191	6652	6597
30°	7001	6421	6483
35°	6736	6191	6433
40°	6483	6006	6440
45°	6206	5883	6461
50°	5889	5805	6454
55°	5583	5718	6434
60°	5297	5651	6396
65°	4880	5592	6342
70°	4506	5552	6290
75°	3996	5530	6296
80°	3426	5634	6357
85°	2692	5814	6540



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.3	2.5
10°-20°	225.4	7.0
20°-30°	338.2	10.5
30°-40°	410.7	12.7
40°-50°	443.6	13.7
50°-60°	434.4	13.4
60°-70°	385.3	11.9
70°-80°	308.7	9.5
80°-90°	223.7	6.9
90°-100°	157.7	4.9
100°-110°	110.0	3.4
110°-120°	68.1	2.1
120°-130°	34.6	1.1
130°-140°	12.0	0.4
140°-150°	0.6	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	642.9	19.9
0°-40°	1053.6	32.6
0°-60°	1931.6	59.8
0°-90°	2849.3	88.2
90°-120°	335.7	10.4
90°-150°	382.9	11.8
90°-180°	383.0	11.8
0°-180°	3232.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	837	837	837	837	837	
5°	845	837	836	832	831	80
15°	800	794	800	807	805	225
25°	715	717	736	748	756	330
35°	609	613	654	693	714	380
45°	488	501	573	644	672	375
55°	360	390	493	574	604	323
65°	236	292	405	483	513	236
75°	123	201	312	387	412	131
85°	33	123	225	292	314	36
90°	1	90	187	249	271	2
95°	0	71	163	221	240	0
105°	0	38	117	169	186	0
115°	0	12	74	119	134	0
125°	0	0	36	73	86	0
135°	0	0	6	32	42	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°	837	837	837	837	837	837	837	837	837	837	837
2.5°	845	844	841	838	837	837	836	835	835	834	838
5°	845	844	841	837	836	837	836	834	834	833	836
7.5°	837	835	833	830	829	829	828	828	828	828	833
10°	824	823	821	818	818	817	817	818	818	819	824
12.5°	815	813	810	807	806	806	805	804	805	806	814
15°	800	799	797	794	794	794	794	793	793	794	800
17.5°	780	778	777	775	776	777	778	777	779	782	789
20°	762	760	758	755	755	756	757	757	762	766	775
22.5°	742	741	739	738	738	739	739	737	740	746	758
25°	715	714	713	713	715	717	718	719	722	726	736
27.5°	692	691	689	687	689	691	692	694	700	708	716
30°	667	666	665	665	667	668	669	668	676	688	697
32.5°	635	634	635	635	640	643	645	646	653	664	677
35°	609	609	608	610	611	613	615	620	630	641	654
37.5°	578	578	578	583	587	588	589	595	608	619	633
40°	550	550	550	552	555	558	562	569	582	598	612
42.5°	516	517	519	524	528	530	533	544	558	577	592
45°	488	487	489	493	497	501	506	518	535	556	573
47.5°	453	454	456	463	468	473	479	493	513	534	553
50°	423	424	429	433	438	444	451	469	491	512	535
52.5°	393	394	398	401	409	416	425	445	468	491	514
55°	360	362	365	372	382	390	400	422	445	470	493
57.5°	329	330	335	342	354	364	376	399	424	448	471
60°	300	302	305	314	330	340	352	376	402	426	450
62.5°	270	272	276	286	305	316	329	354	380	404	428
65°	236	238	244	257	280	292	305	331	356	381	405
67.5°	207	208	216	230	254	269	283	308	333	358	382
70°	179	181	187	206	232	244	259	286	311	336	359
72.5°	151	153	162	183	210	223	235	264	289	313	336
75°	123	126	138	162	188	201	214	240	267	290	312
77.5°	98	101	116	141	167	180	193	218	243	268	291
80°	74	78	96	121	147	160	172	198	222	245	269
82.5°	53	58	79	103	129	141	153	178	202	224	245
85°	33	42	63	86	111	123	135	160	183	205	225
87.5°	16	28	48	70	94	106	118	142	164	186	206
90°	1	16	34	55	79	90	102	125	147	168	187
92.5°	0	10	27	47	69	81	92	115	136	157	175
95°	0	5	21	40	61	71	82	104	125	145	163
97.5°	0	1	15	32	52	63	73	94	115	134	151
100°	0	0	10	26	44	54	64	84	104	122	139
102.5°	0	0	5	20	37	46	55	75	94	112	128
105°	0	0	1	14	30	38	47	65	84	101	117
107.5°	0	0	0	8	23	31	39	56	74	90	105
110°	0	0	0	4	17	24	32	48	64	80	95



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	0	0	0	1	11	18	25	40	55	70	84
115°	0	0	0	0	6	12	18	32	46	61	74
117.5°	0	0	0	0	2	7	12	25	38	51	64
120°	0	0	0	0	0	3	7	18	30	42	54
122.5°	0	0	0	0	0	0	2	11	22	34	45
125°	0	0	0	0	0	0	0	6	15	26	36
127.5°	0	0	0	0	0	0	0	2	9	18	27
130°	0	0	0	0	0	0	0	0	4	11	19
132.5°	0	0	0	0	0	0	0	0	1	6	12
135°	0	0	0	0	0	0	0	0	0	2	6
137.5°	1	0	0	0	0	0	0	0	0	0	2
140°	1	1	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°	837	837	837	837	837	837	837	837	837	837
2.5°	841	837	837	836	835	834	832	831	829	830
5°	839	835	835	833	832	832	831	831	830	831
7.5°	836	831	831	829	828	827	827	827	827	828
10°	828	825	825	824	823	821	820	821	820	821
12.5°	817	814	816	816	816	814	813	814	813	814
15°	803	802	805	806	807	806	805	805	805	805
17.5°	789	788	792	794	794	794	794	793	793	794
20°	777	773	775	779	780	780	781	782	782	782
22.5°	760	758	759	762	764	765	768	768	769	770
25°	740	743	744	747	748	750	754	756	756	756
27.5°	719	725	729	731	733	735	740	744	744	744
30°	699	705	713	717	719	721	728	733	734	734
32.5°	678	686	698	704	705	708	717	723	724	724
35°	660	670	683	691	693	696	706	713	714	714
37.5°	644	654	668	679	681	685	695	704	705	706
40°	626	638	652	665	669	673	684	693	695	695
42.5°	608	623	637	652	657	661	673	682	684	684
45°	589	608	622	638	644	648	659	669	672	672
47.5°	572	592	606	622	628	634	644	654	657	658
50°	553	575	589	604	612	618	628	639	642	641
52.5°	534	555	570	586	594	600	609	621	624	624
55°	514	535	551	566	574	582	591	601	605	604
57.5°	494	513	530	546	553	561	570	580	583	585
60°	473	490	509	524	531	539	548	557	562	561
62.5°	450	469	487	501	508	516	525	533	537	539
65°	427	445	462	477	483	491	501	507	512	513
67.5°	403	421	438	454	460	467	476	482	487	488
70°	379	398	415	430	436	442	451	457	462	462
72.5°	356	375	391	406	412	417	426	432	436	437
75°	333	351	367	382	387	393	401	407	411	412
77.5°	310	329	344	358	363	368	377	382	386	386
80°	288	306	321	334	338	344	352	357	360	362
82.5°	267	284	298	310	316	320	328	333	336	338
85°	244	262	276	288	292	298	305	310	313	314
87.5°	223	239	253	267	272	276	283	288	291	293
90°	205	220	233	244	249	254	262	267	270	271
92.5°	192	207	219	230	235	239	246	251	254	255
95°	180	194	206	217	221	225	232	236	238	240
97.5°	167	182	193	203	208	211	218	222	225	226
100°	155	169	180	191	195	198	205	209	211	212
102.5°	143	157	168	178	182	185	191	195	198	199
105°	131	144	155	165	169	172	178	182	185	186
107.5°	120	132	143	152	156	159	165	169	172	173
110°	109	120	131	140	144	147	153	156	159	160



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	97	109	119	128	131	135	140	144	146	147
115°	87	98	107	116	119	122	128	131	134	134
117.5°	76	86	96	104	107	110	116	119	121	122
120°	66	75	84	92	96	98	104	107	109	110
122.5°	56	65	74	81	84	87	92	95	97	98
125°	46	55	63	70	73	76	80	83	85	86
127.5°	37	45	53	59	62	65	69	72	74	75
130°	28	35	43	49	52	54	58	61	63	64
132.5°	19	26	33	39	42	44	48	50	52	53
135°	12	18	24	29	32	34	38	40	42	42
137.5°	6	11	16	20	22	25	28	30	31	32
140°	2	5	9	12	14	16	19	21	22	23
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)