

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: P233358

Luminaire Tested: **HGL-S-FR-30L835-UNV-12**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P233358  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1708-204-1)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: HGL-S-FR-30L835-UNV-12  
Description: HUGO 12 FOOT LINEAR LED LUMINAIRE WITH FROSTED LENS  
Light Source: (504) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9450.0 lumens  
Efficiency: N/A  
Efficacy: 145.2 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.33  
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 12' x H: 0.01')  
CIE Type: Direct

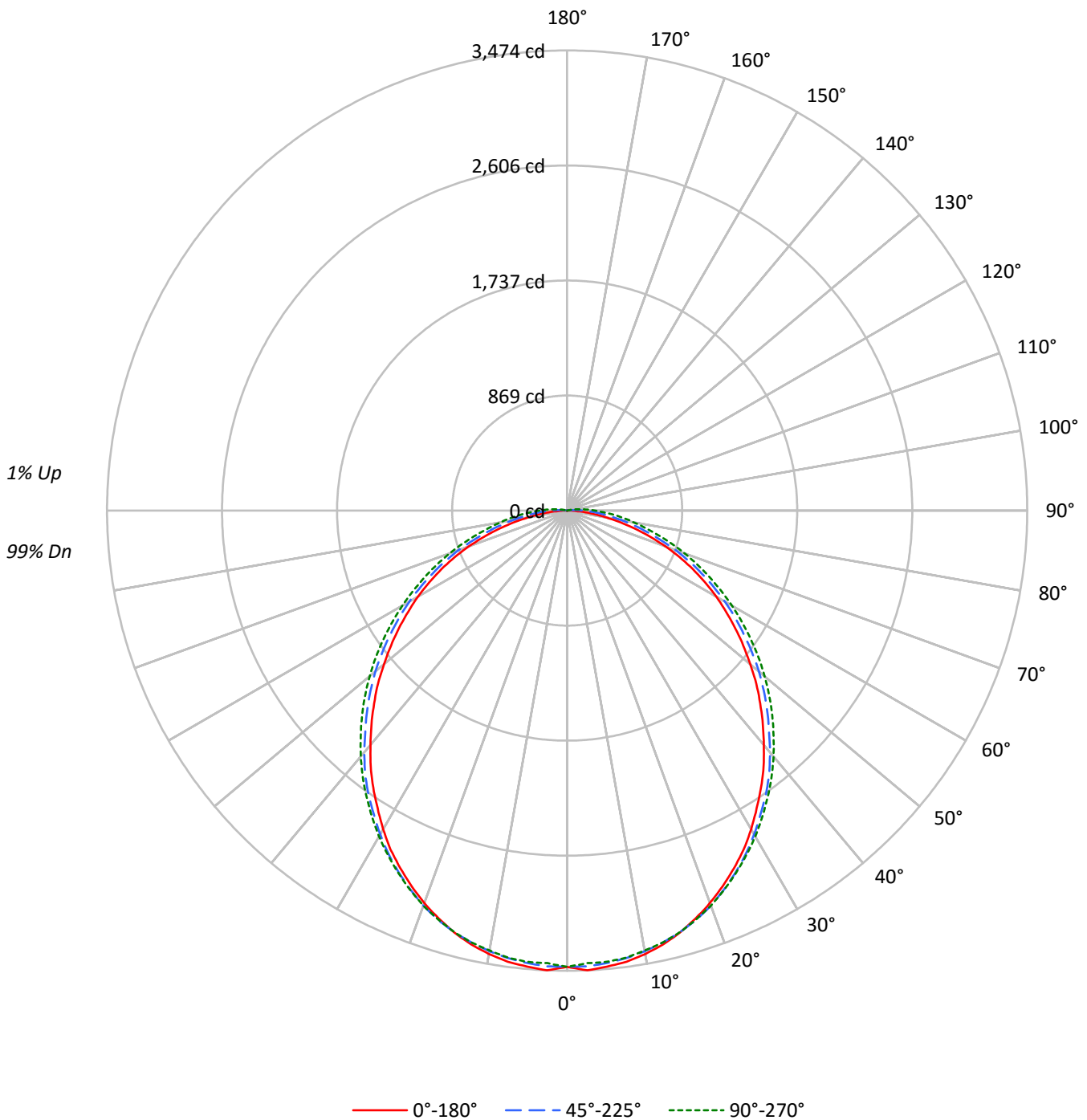
Input Watts (W): 65.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	99
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	82
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	55	50	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	50	44	40	38
7	65	51	43	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33
8	60	47	38	33	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26	24

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

	0°	45°	90°
0°	13480	13480	13480
5°	13578	13436	13386
10°	13507	13352	13300
15°	13357	13236	13194
20°	13129	13071	13014
25°	12861	12820	12774
30°	12550	12532	12525
35°	12192	12231	12241
40°	11795	11858	11948
45°	11399	11463	11616
50°	10968	11093	11270
55°	10572	10639	10869
60°	10178	10223	10459
65°	9680	9709	10036
70°	9009	9165	9626
75°	8051	8446	9169
80°	6798	7977	9215
85°	5472	8226	10338



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	325.5	3.4
10°-20°	926.1	9.8
20°-30°	1379.1	14.6
30°-40°	1623.1	17.2
40°-50°	1639.4	17.3
50°-60°	1452.8	15.4
60°-70°	1105.4	11.7
70°-80°	663.6	7.0
80°-90°	272.7	2.9
90°-100°	59.4	0.6
100°-110°	2.9	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°	2630.7	27.8
0°-40°	4253.8	45.0
0°-60°	7346.0	77.7
0°-90°	9387.8	99.3
90°-120°	62.2	0.7
90°-150°	62.2	0.7
90°-180°	62.0	0.7
0°-180°	9450.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3444	3444	3444	3444	3444	
5°	3456	3417	3429	3423	3420	328
15°	3297	3264	3294	3291	3294	929
25°	2979	2955	3012	3009	3018	1372
35°	2553	2544	2616	2628	2640	1596
45°	2061	2070	2136	2166	2190	1591
55°	1551	1572	1629	1671	1692	1387
65°	1047	1062	1119	1164	1185	1035
75°	534	558	624	687	705	567
85°	123	162	249	321	345	138
90°	3	51	123	186	210	8
95°	0	3	45	90	108	0
105°	3	0	0	0	3	2
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°	22.5°	45°	67.5°	90°
0°	3444	3444	3444	3444	3444
2.5°	3474	3435	3444	3438	3420
5°	3456	3417	3429	3423	3420
7.5°	3435	3396	3408	3402	3405
10°	3399	3360	3378	3372	3372
12.5°	3354	3321	3339	3333	3339
15°	3297	3264	3294	3291	3294
17.5°	3228	3198	3240	3234	3237
20°	3153	3123	3174	3162	3174
22.5°	3069	3045	3096	3087	3099
25°	2979	2955	3012	3009	3018
27.5°	2886	2865	2922	2928	2931
30°	2778	2763	2823	2832	2841
32.5°	2664	2655	2718	2733	2742
35°	2553	2544	2616	2628	2640
37.5°	2436	2430	2505	2517	2535
40°	2310	2313	2382	2403	2424
42.5°	2187	2193	2256	2286	2307
45°	2061	2070	2136	2166	2190
47.5°	1938	1947	2013	2046	2070
50°	1803	1824	1890	1920	1947
52.5°	1677	1698	1758	1797	1821
55°	1551	1572	1629	1671	1692
57.5°	1422	1452	1503	1545	1566
60°	1302	1320	1377	1419	1437
62.5°	1173	1191	1245	1296	1308
65°	1047	1062	1119	1164	1185
67.5°	918	936	993	1041	1062
70°	789	807	870	924	942
72.5°	657	678	741	804	825
75°	534	558	624	687	705
77.5°	414	444	516	582	606
80°	303	339	417	489	510
82.5°	207	246	327	402	429
85°	123	162	249	321	345
87.5°	54	96	180	249	270
90°	3	51	123	186	210
92.5°	0	21	78	132	156
95°	0	3	45	90	108
97.5°	0	0	21	54	69
100°	0	0	3	27	39
102.5°	3	0	0	6	15
105°	3	0	0	0	3
107.5°	0	0	0	0	0
110°	0	0	0	0	0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0	0	0	0	0
115°	0	0	0	0	0
117.5°	0	0	0	0	0
120°	0	0	0	0	0
122.5°	0	0	0	0	0
125°	0	0	0	0	0
127.5°	0	0	0	0	0
130°	0	0	0	0	0
132.5°	0	0	0	0	0
135°	0	0	0	0	0
137.5°	0	0	0	0	0
140°	0	0	0	0	0
142.5°	0	0	0	0	0
145°	0	0	0	0	0
147.5°	0	0	0	0	0
150°	0	0	0	0	0
152.5°	0	0	0	0	0
155°	0	0	0	0	0
157.5°	0	0	0	0	0
160°	0	0	0	0	0
162.5°	0	0	0	0	0
165°	0	0	0	0	0
167.5°	0	0	0	0	0
170°	0	0	0	0	0
172.5°	0	0	0	0	0
175°	0	0	0	0	0
177.5°	0	0	0	0	0
180°	0	0	0	0	0

(END OF REPORT)