

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: P233370

Luminaire Tested: **HGL-S-FR-50L835-UNV-12**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P233370  
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-50L835-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: 14936.6 lumens  
Efficiency: N/A  
Efficacy: 133.4 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

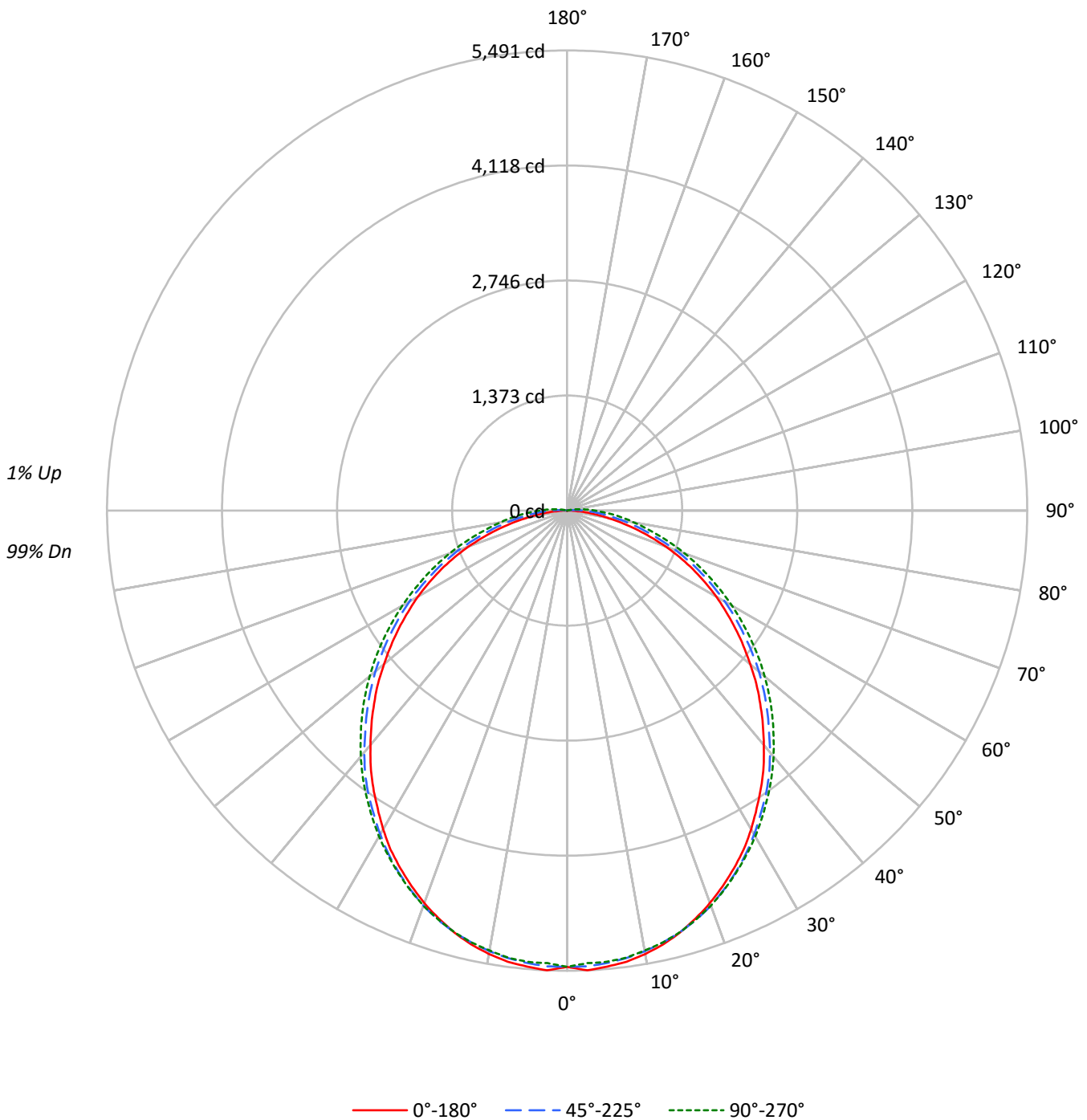
Input Watts (W): 112  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	21307	21307	21307
5°	21461	21237	21158
10°	21350	21104	21022
15°	21112	20922	20854
20°	20752	20660	20570
25°	20328	20263	20191
30°	19836	19807	19797
35°	19271	19332	19348
40°	18643	18743	18885
45°	18017	18118	18360
50°	17336	17534	17813
55°	16709	16816	17180
60°	16087	16158	16531
65°	15300	15346	15863
70°	14239	14485	15215
75°	12724	13349	14492
80°	10744	12608	14565
85°	8648	13003	16340



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	514.5	3.4
10°-20°	1463.7	9.8
20°-30°	2179.8	14.6
30°-40°	2565.5	17.2
40°-50°	2591.2	17.3
50°-60°	2296.3	15.4
60°-70°	1747.2	11.7
70°-80°	1048.9	7.0
80°-90°	431.1	2.9
90°-100°	93.8	0.6
100°-110°	4.5	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°	4158.0	27.8
0°-40°	6723.5	45.0
0°-60°	11611.1	77.7
0°-90°	14838.2	99.3
90°-120°	98.3	0.7
90°-150°	98.3	0.7
90°-180°	98.0	0.7
0°-180°	14936.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5444	5444	5444	5444	5444	
5°	5462	5401	5420	5410	5406	519
15°	5211	5159	5206	5202	5206	1468
25°	4709	4671	4761	4756	4770	2168
35°	4035	4021	4135	4154	4173	2522
45°	3258	3272	3376	3424	3462	2514
55°	2452	2485	2575	2641	2674	2192
65°	1655	1679	1769	1840	1873	1636
75°	844	882	986	1086	1114	896
85°	194	256	394	507	545	219
90°	5	81	194	294	332	13
95°	0	5	71	142	171	0
105°	5	0	0	0	5	3
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°	5443.6	5443.6	5443.6	5443.6	5443.6
2.5°	5491.0	5429.3	5443.6	5434.1	5405.6
5°	5462.5	5400.9	5419.9	5410.4	5405.6
7.5°	5429.3	5367.7	5386.7	5377.2	5381.9
10°	5372.4	5310.8	5339.2	5329.8	5329.8
12.5°	5301.3	5249.1	5277.6	5268.1	5277.6
15°	5211.2	5159.1	5206.5	5201.7	5206.5
17.5°	5102.2	5054.7	5121.1	5111.6	5116.4
20°	4983.6	4936.2	5016.8	4997.8	5016.8
22.5°	4850.8	4812.9	4893.5	4879.3	4898.3
25°	4708.6	4670.6	4760.7	4756.0	4770.2
27.5°	4561.6	4528.4	4618.5	4628.0	4632.7
30°	4390.9	4367.2	4462.0	4476.2	4490.5
32.5°	4210.7	4196.5	4296.0	4319.8	4334.0
35°	4035.3	4021.0	4134.8	4153.8	4172.8
37.5°	3850.3	3840.8	3959.4	3978.4	4006.8
40°	3651.2	3655.9	3765.0	3798.2	3831.4
42.5°	3456.8	3466.2	3565.8	3613.2	3646.4
45°	3257.6	3271.8	3376.1	3423.6	3461.5
47.5°	3063.2	3077.4	3181.7	3233.9	3271.8
50°	2849.8	2883.0	2987.3	3034.7	3077.4
52.5°	2650.7	2683.8	2778.7	2840.3	2878.3
55°	2451.5	2484.7	2574.8	2641.2	2674.4
57.5°	2247.6	2295.0	2375.6	2442.0	2475.2
60°	2057.9	2086.4	2176.5	2242.9	2271.3
62.5°	1854.0	1882.5	1967.8	2048.4	2067.4
65°	1654.9	1678.6	1768.7	1839.8	1873.0
67.5°	1451.0	1479.4	1569.5	1645.4	1678.6
70°	1247.1	1275.5	1375.1	1460.5	1488.9
72.5°	1038.4	1071.6	1171.2	1270.8	1304.0
75°	844.0	882.0	986.3	1085.9	1114.3
77.5°	654.4	701.8	815.6	919.9	957.8
80°	478.9	535.8	659.1	772.9	806.1
82.5°	327.2	388.8	516.9	635.4	678.1
85°	194.4	256.1	393.6	507.4	545.3
87.5°	85.4	151.7	284.5	393.6	426.8
90°	4.7	80.6	194.4	294.0	331.9
92.5°	0.0	33.2	123.3	208.6	246.6
95°	0.0	4.7	71.1	142.3	170.7
97.5°	0.0	0.0	33.2	85.4	109.1
100°	0.0	0.0	4.7	42.7	61.6
102.5°	4.7	0.0	0.0	9.5	23.7
105°	4.7	0.0	0.0	0.0	4.7
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):**

	0°	22.5°	45°	67.5°	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)