

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: P233380

Luminaire Tested: **HGL-S-FR-80L830-UNV-12**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P233380  
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-80L830-UNV-12  
Description: HUGO 12 FOOT LINEAR LED LUMINAIRE WITH FROSTED LENS  
Light Source: (504) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23314.2 lumens  
Efficiency: N/A  
Efficacy: 110.0 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

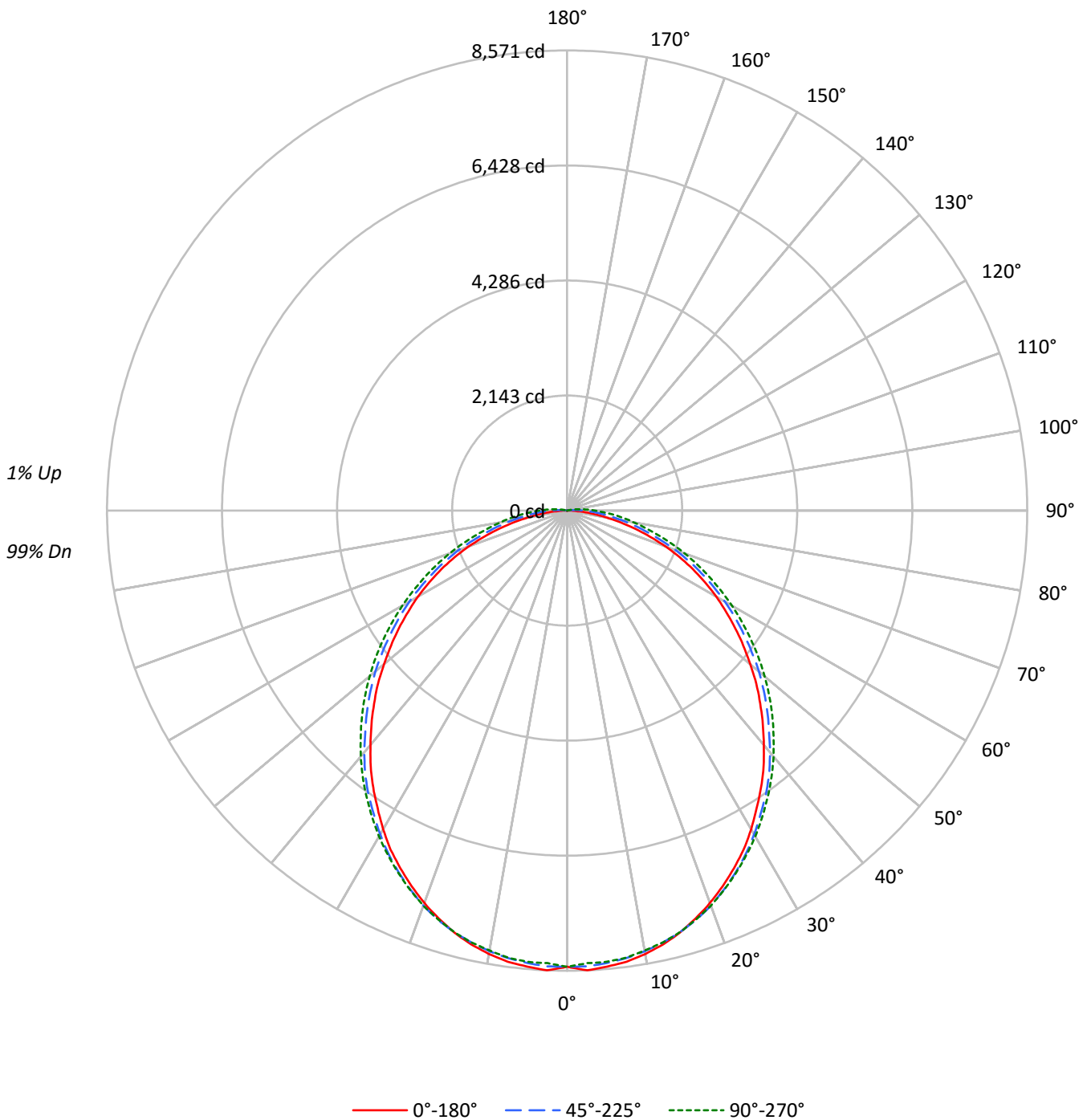
Input Watts (W): 212  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	33257	33257	33257
5°	33498	33148	33026
10°	33324	32941	32812
15°	32954	32656	32551
20°	32392	32248	32107
25°	31729	31629	31515
30°	30961	30916	30900
35°	30079	30175	30199
40°	29099	29255	29477
45°	28123	28281	28657
50°	27060	27368	27804
55°	26081	26247	26815
60°	25110	25221	25803
65°	23881	23953	24760
70°	22225	22610	23749
75°	19861	20837	22620
80°	16770	19680	22734
85°	13502	20294	25506



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	803.0	3.4
10°-20°	2284.7	9.8
20°-30°	3402.4	14.6
30°-40°	4004.4	17.2
40°-50°	4044.6	17.3
50°-60°	3584.2	15.4
60°-70°	2727.2	11.7
70°-80°	1637.3	7.0
80°-90°	672.8	2.9
90°-100°	146.4	0.6
100°-110°	7.1	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°	6490.2	27.8
0°-40°	10494.6	45.0
0°-60°	18123.4	77.7
0°-90°	23160.7	99.3
90°-120°	153.5	0.7
90°-150°	153.5	0.7
90°-180°	153.0	0.7
0°-180°	23314.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8497	8497	8497	8497	8497	
5°	8526	8430	8460	8445	8438	810
15°	8134	8053	8127	8119	8127	2291
25°	7350	7290	7431	7424	7446	3385
35°	6298	6276	6454	6484	6513	3937
45°	5085	5107	5270	5344	5403	3924
55°	3826	3878	4019	4122	4174	3421
65°	2583	2620	2761	2872	2924	2553
75°	1317	1377	1540	1695	1739	1399
85°	304	400	614	792	851	341
90°	7	126	304	459	518	20
95°	0	7	111	222	266	0
105°	7	0	0	0	7	4
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°	8496.7	8496.7	8496.7	8496.7	8496.7
2.5°	8570.7	8474.5	8496.7	8481.9	8437.5
5°	8526.3	8430.1	8459.7	8444.9	8437.5
7.5°	8474.5	8378.3	8407.9	8393.1	8400.5
10°	8385.7	8289.5	8333.9	8319.1	8319.1
12.5°	8274.7	8193.3	8237.7	8222.9	8237.7
15°	8134.1	8052.6	8126.7	8119.3	8126.7
17.5°	7963.8	7889.8	7993.4	7978.6	7986.0
20°	7778.8	7704.8	7830.6	7801.0	7830.6
22.5°	7571.6	7512.3	7638.2	7616.0	7645.6
25°	7349.5	7290.3	7430.9	7423.5	7445.7
27.5°	7120.1	7068.3	7208.9	7223.7	7231.1
30°	6853.6	6816.6	6964.6	6986.9	7009.1
32.5°	6572.4	6550.2	6705.6	6742.6	6764.8
35°	6298.5	6276.3	6454.0	6483.6	6513.2
37.5°	6009.9	5995.1	6180.1	6209.7	6254.1
40°	5699.0	5706.4	5876.7	5928.5	5980.3
42.5°	5395.6	5410.4	5565.8	5639.8	5691.6
45°	5084.7	5106.9	5269.7	5343.8	5403.0
47.5°	4781.3	4803.5	4966.3	5047.7	5106.9
50°	4448.2	4500.0	4662.8	4736.8	4803.5
52.5°	4137.3	4189.2	4337.2	4433.4	4492.6
55°	3826.5	3878.3	4018.9	4122.5	4174.3
57.5°	3508.2	3582.2	3708.1	3811.7	3863.5
60°	3212.2	3256.6	3397.2	3500.8	3545.2
62.5°	2893.9	2938.3	3071.6	3197.4	3227.0
65°	2583.1	2620.1	2760.7	2871.7	2923.5
67.5°	2264.8	2309.2	2449.8	2568.3	2620.1
70°	1946.5	1991.0	2146.4	2279.6	2324.0
72.5°	1620.9	1672.7	1828.1	1983.6	2035.4
75°	1317.4	1376.6	1539.5	1694.9	1739.3
77.5°	1021.4	1095.4	1273.0	1435.9	1495.1
80°	747.5	836.3	1028.8	1206.4	1258.2
82.5°	510.7	606.9	806.7	991.8	1058.4
85°	303.5	399.7	614.3	791.9	851.2
87.5°	133.2	236.8	444.1	614.3	666.1
90°	7.4	125.8	303.5	458.9	518.1
92.5°	0.0	51.8	192.4	325.7	384.9
95°	0.0	7.4	111.0	222.0	266.4
97.5°	0.0	0.0	51.8	133.2	170.2
100°	0.0	0.0	7.4	66.6	96.2
102.5°	7.4	0.0	0.0	14.8	37.0
105°	7.4	0.0	0.0	0.0	7.4
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)