

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: P257028

Luminaire Tested: **HGL-S-FR-80L930-UNV-8**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P257028  
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-80L930-UNV-8  
Description: HUGO 8 FOOT LINEAR LED LUMINAIRE WITH FROSTED LENS  
Light Source: (336) 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12044.1 lumens  
Efficiency: N/A  
Efficacy: 85.4 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.33  
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 8' x H: 0.01')  
CIE Type: Direct

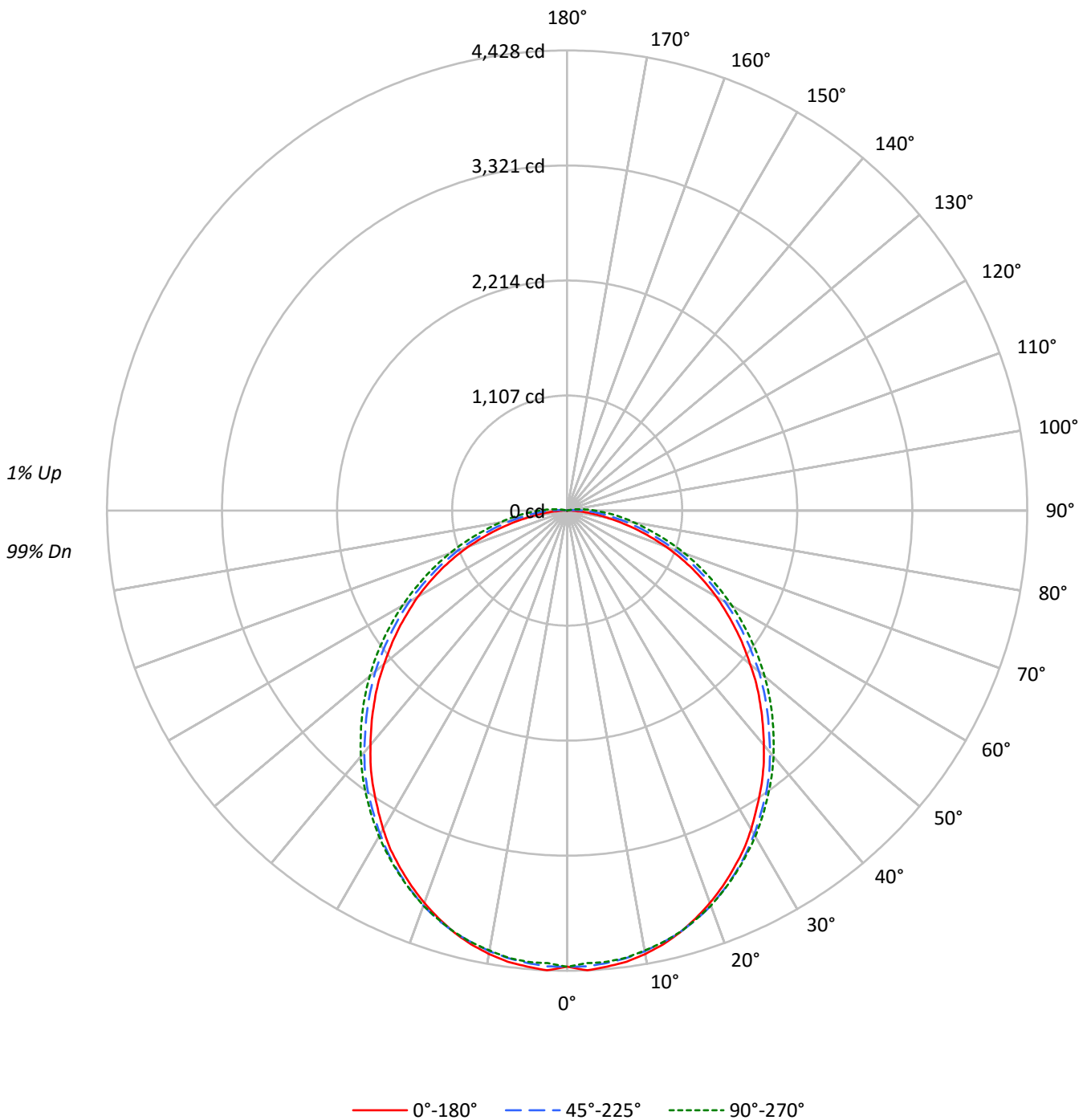
Input Watts (W): 141  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	25771	25771	25771
5°	25957	25686	25592
10°	25821	25524	25426
15°	25533	25303	25223
20°	25096	24986	24880
25°	24582	24506	24421
30°	23986	23953	23945
35°	23301	23377	23401
40°	22541	22665	22842
45°	21784	21908	22207
50°	20958	21200	21546
55°	20199	20331	20779
60°	19443	19534	19995
65°	18489	18551	19186
70°	17203	17507	18403
75°	15367	16130	17528
80°	12966	15229	17617
85°	10414	15690	19763



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	414.8	3.4
10°-20°	1180.3	9.8
20°-30°	1757.7	14.6
30°-40°	2068.7	17.2
40°-50°	2089.4	17.3
50°-60°	1851.6	15.4
60°-70°	1408.8	11.7
70°-80°	845.8	7.0
80°-90°	347.6	2.9
90°-100°	75.6	0.6
100°-110°	3.6	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°	3352.8	27.8
0°-40°	5421.5	45.0
0°-60°	9362.6	77.7
0°-90°	11964.8	99.3
90°-120°	79.3	0.7
90°-150°	79.3	0.7
90°-180°	79.0	0.7
0°-180°	12044.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4389	4389	4389	4389	4389	
5°	4405	4355	4370	4363	4359	418
15°	4202	4160	4198	4194	4198	1184
25°	3797	3766	3839	3835	3846	1749
35°	3254	3242	3334	3349	3365	2034
45°	2627	2638	2722	2761	2791	2027
55°	1977	2004	2076	2130	2156	1768
65°	1334	1354	1426	1484	1510	1319
75°	681	711	795	876	898	723
85°	157	206	317	409	440	176
90°	4	65	157	237	268	10
95°	0	4	57	115	138	0
105°	4	0	0	0	4	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°	4389.4	4389.4	4389.4	4389.4	4389.4
2.5°	4427.6	4377.9	4389.4	4381.8	4358.8
5°	4404.7	4355.0	4370.3	4362.6	4358.8
7.5°	4377.9	4328.2	4343.5	4335.9	4339.7
10°	4332.0	4282.3	4305.3	4297.6	4297.6
12.5°	4274.7	4232.6	4255.6	4247.9	4255.6
15°	4202.0	4160.0	4198.2	4194.4	4198.2
17.5°	4114.1	4075.9	4129.4	4121.8	4125.6
20°	4018.5	3980.3	4045.3	4030.0	4045.3
22.5°	3911.5	3880.9	3945.9	3934.4	3949.7
25°	3796.8	3766.2	3838.8	3835.0	3846.5
27.5°	3678.2	3651.5	3724.1	3731.8	3735.6
30°	3540.6	3521.5	3597.9	3609.4	3620.9
32.5°	3395.3	3383.8	3464.1	3483.2	3494.7
35°	3253.8	3242.3	3334.1	3349.4	3364.7
37.5°	3104.7	3097.0	3192.6	3207.9	3230.9
40°	2944.1	2947.9	3035.9	3062.6	3089.4
42.5°	2787.3	2795.0	2875.3	2913.5	2940.3
45°	2626.8	2638.2	2722.3	2760.6	2791.2
47.5°	2470.0	2481.5	2565.6	2607.6	2638.2
50°	2297.9	2324.7	2408.8	2447.1	2481.5
52.5°	2137.3	2164.1	2240.6	2290.3	2320.9
55°	1976.8	2003.5	2076.2	2129.7	2156.5
57.5°	1812.3	1850.6	1915.6	1969.1	1995.9
60°	1659.4	1682.3	1755.0	1808.5	1831.5
62.5°	1495.0	1517.9	1586.8	1651.8	1667.1
65°	1334.4	1353.5	1426.2	1483.5	1510.3
67.5°	1170.0	1192.9	1265.6	1326.8	1353.5
70°	1005.6	1028.5	1108.8	1177.6	1200.6
72.5°	837.4	864.1	944.4	1024.7	1051.5
75°	680.6	711.2	795.3	875.6	898.5
77.5°	527.6	565.9	657.6	741.8	772.4
80°	386.2	432.1	531.5	623.2	650.0
82.5°	263.8	313.5	416.8	512.4	546.8
85°	156.8	206.5	317.4	409.1	439.7
87.5°	68.8	122.4	229.4	317.4	344.1
90°	3.8	65.0	156.8	237.1	267.6
92.5°	0.0	26.8	99.4	168.2	198.8
95°	0.0	3.8	57.4	114.7	137.6
97.5°	0.0	0.0	26.8	68.8	87.9
100°	0.0	0.0	3.8	34.4	49.7
102.5°	3.8	0.0	0.0	7.6	19.1
105°	3.8	0.0	0.0	0.0	3.8
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)