

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: P257035

Luminaire Tested: **HGL-S-FR-40L930-UNV-12**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P257035  
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-40L930-UNV-12  
Description: HUGO 12 FOOT LINEAR LED LUMINAIRE WITH FROSTED LENS  
Light Source: (504) 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8839.7 lumens  
Efficiency: N/A  
Efficacy: 103.1 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

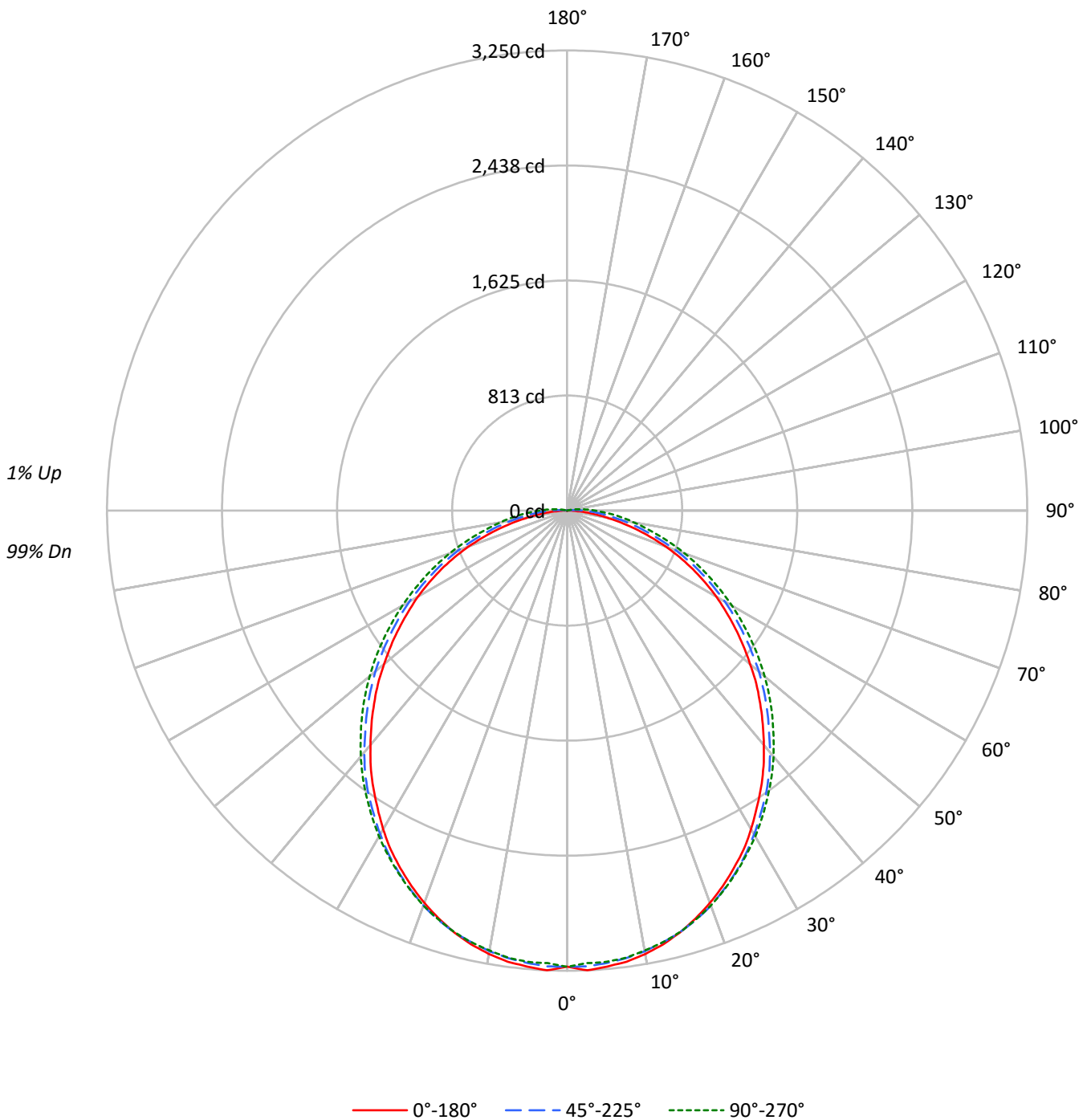
Input Watts (W): 85.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	12610	12610	12610
5°	12701	12568	12522
10°	12635	12490	12441
15°	12495	12382	12342
20°	12282	12227	12174
25°	12030	11992	11949
30°	11739	11722	11716
35°	11404	11441	11450
40°	11033	11092	11177
45°	10663	10723	10866
50°	10260	10377	10542
55°	9889	9952	10167
60°	9520	9563	9783
65°	9055	9082	9388
70°	8427	8573	9005
75°	7531	7900	8577
80°	6358	7462	8621
85°	5120	7694	9670



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	304.5	3.4
10°-20°	866.3	9.8
20°-30°	1290.1	14.6
30°-40°	1518.3	17.2
40°-50°	1533.5	17.3
50°-60°	1359.0	15.4
60°-70°	1034.0	11.7
70°-80°	620.8	7.0
80°-90°	255.1	2.9
90°-100°	55.5	0.6
100°-110°	2.7	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°	2460.8	27.8
0°-40°	3979.1	45.0
0°-60°	6871.7	77.7
0°-90°	8781.5	99.3
90°-120°	58.2	0.7
90°-150°	58.2	0.7
90°-180°	58.0	0.7
0°-180°	8839.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3222	3222	3222	3222	3222	
5°	3233	3196	3208	3202	3199	307
15°	3084	3053	3081	3078	3081	869
25°	2787	2764	2818	2815	2823	1283
35°	2388	2380	2447	2458	2470	1493
45°	1928	1936	1998	2026	2049	1488
55°	1451	1470	1524	1563	1583	1297
65°	979	993	1047	1089	1108	968
75°	500	522	584	643	660	530
85°	115	152	233	300	323	129
90°	3	48	115	174	196	8
95°	0	3	42	84	101	0
105°	3	0	0	0	3	1
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°	3221.6	3221.6	3221.6	3221.6	3221.6
2.5°	3249.7	3213.2	3221.6	3216.0	3199.2
5°	3232.8	3196.3	3207.6	3202.0	3199.2
7.5°	3213.2	3176.7	3187.9	3182.3	3185.1
10°	3179.5	3143.0	3159.9	3154.2	3154.2
12.5°	3137.4	3106.5	3123.4	3117.8	3123.4
15°	3084.1	3053.2	3081.3	3078.5	3081.3
17.5°	3019.5	2991.5	3030.8	3025.2	3028.0
20°	2949.4	2921.3	2969.0	2957.8	2969.0
22.5°	2870.8	2848.4	2896.1	2887.7	2898.9
25°	2786.6	2764.2	2817.5	2814.7	2823.1
27.5°	2699.6	2680.0	2733.3	2738.9	2741.7
30°	2598.6	2584.6	2640.7	2649.1	2657.5
32.5°	2492.0	2483.6	2542.5	2556.5	2564.9
35°	2388.1	2379.7	2447.1	2458.3	2469.5
37.5°	2278.7	2273.1	2343.2	2354.5	2371.3
40°	2160.8	2163.6	2228.2	2247.8	2267.5
42.5°	2045.8	2051.4	2110.3	2138.4	2158.0
45°	1927.9	1936.3	1998.1	2026.1	2048.6
47.5°	1812.9	1821.3	1883.0	1913.9	1936.3
50°	1686.6	1706.2	1768.0	1796.0	1821.3
52.5°	1568.7	1588.4	1644.5	1681.0	1703.4
55°	1450.8	1470.5	1523.8	1563.1	1582.7
57.5°	1330.2	1358.2	1405.9	1445.2	1464.9
60°	1217.9	1234.8	1288.1	1327.4	1344.2
62.5°	1097.3	1114.1	1164.6	1212.3	1223.5
65°	979.4	993.4	1046.7	1088.8	1108.5
67.5°	858.7	875.6	928.9	973.8	993.4
70°	738.0	754.9	813.8	864.3	881.2
72.5°	614.6	634.2	693.1	752.1	771.7
75°	499.5	522.0	583.7	642.6	659.5
77.5°	387.3	415.3	482.7	544.4	566.9
80°	283.4	317.1	390.1	457.4	477.1
82.5°	193.6	230.1	305.9	376.0	401.3
85°	115.1	151.5	232.9	300.3	322.7
87.5°	50.5	89.8	168.4	232.9	252.6
90°	2.8	47.7	115.1	174.0	196.4
92.5°	0.0	19.6	73.0	123.5	145.9
95°	0.0	2.8	42.1	84.2	101.0
97.5°	0.0	0.0	19.6	50.5	64.5
100°	0.0	0.0	2.8	25.3	36.5
102.5°	2.8	0.0	0.0	5.6	14.0
105°	2.8	0.0	0.0	0.0	2.8
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)