

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: P233365

Luminaire Tested: **HGL-S-FR-40L840-UNV-8**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P233365  
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-40L840-UNV-8  
Description: HUGO 8 FOOT LINEAR LED LUMINAIRE WITH FROSTED LENS  
Light Source: (336) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7669.8 lumens  
Efficiency: N/A  
Efficacy: 132.2 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

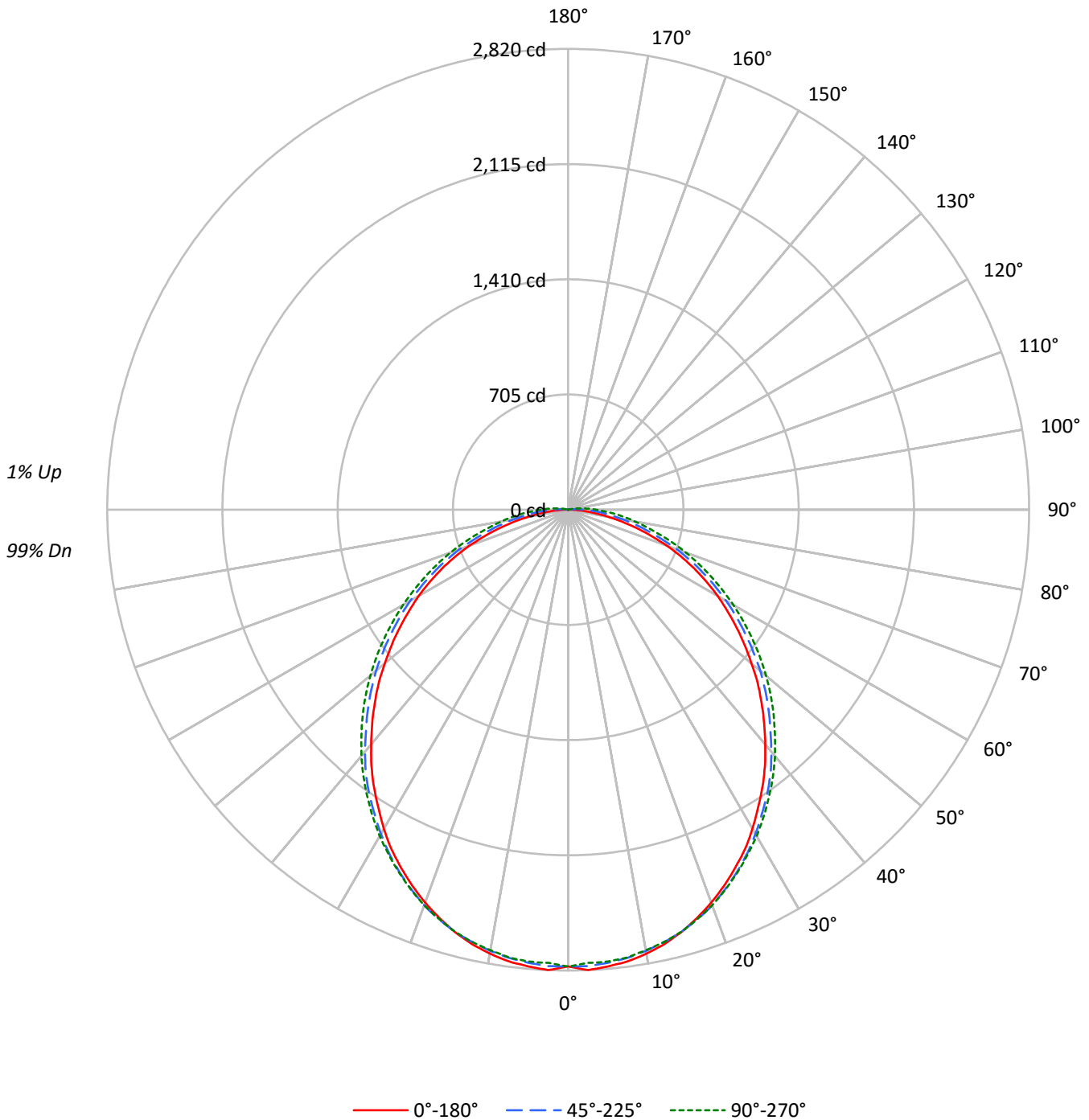
Input Watts (W): 58  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	16411	16411	16411
5°	16530	16357	16297
10°	16443	16254	16192
15°	16260	16113	16063
20°	15982	15912	15844
25°	15654	15606	15552
30°	15275	15254	15248
35°	14839	14887	14902
40°	14355	14433	14546
45°	13872	13952	14142
50°	13347	13501	13720
55°	12862	12946	13233
60°	12381	12439	12733
65°	11774	11813	12218
70°	10956	11149	11720
75°	9786	10273	11162
80°	8256	9696	11218
85°	6628	9990	12585



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	264.2	3.4
10°-20°	751.6	9.8
20°-30°	1119.3	14.6
30°-40°	1317.4	17.2
40°-50°	1330.6	17.3
50°-60°	1179.1	15.4
60°-70°	897.2	11.7
70°-80°	538.6	7.0
80°-90°	221.3	2.9
90°-100°	48.2	0.6
100°-110°	2.3	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°	2135.1	27.8
0°-40°	3452.5	45.0
0°-60°	5962.2	77.7
0°-90°	7619.4	99.3
90°-120°	50.5	0.7
90°-150°	50.5	0.7
90°-180°	50.0	0.7
0°-180°	7669.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2795	2795	2795	2795	2795	
5°	2805	2773	2783	2778	2776	266
15°	2676	2649	2674	2671	2674	754
25°	2418	2398	2445	2442	2450	1114
35°	2072	2065	2123	2133	2143	1295
45°	1673	1680	1734	1758	1778	1291
55°	1259	1276	1322	1356	1373	1126
65°	850	862	908	945	962	840
75°	433	453	506	558	572	460
85°	100	132	202	260	280	112
90°	2	41	100	151	170	7
95°	0	2	36	73	88	0
105°	2	0	0	0	2	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°	2795.2	2795.2	2795.2	2795.2	2795.2
2.5°	2819.6	2787.9	2795.2	2790.4	2775.8
5°	2805.0	2773.3	2783.1	2778.2	2775.8
7.5°	2787.9	2756.3	2766.0	2761.2	2763.6
10°	2758.7	2727.1	2741.7	2736.8	2736.8
12.5°	2722.2	2695.4	2710.0	2705.2	2710.0
15°	2675.9	2649.2	2673.5	2671.1	2673.5
17.5°	2619.9	2595.6	2629.7	2624.8	2627.2
20°	2559.1	2534.7	2576.1	2566.4	2576.1
22.5°	2490.9	2471.4	2512.8	2505.5	2515.2
25°	2417.8	2398.4	2444.6	2442.2	2449.5
27.5°	2342.4	2325.3	2371.6	2376.4	2378.9
30°	2254.7	2242.5	2291.2	2298.5	2305.8
32.5°	2162.2	2154.9	2206.0	2218.2	2225.5
35°	2072.1	2064.8	2123.2	2133.0	2142.7
37.5°	1977.1	1972.3	2033.1	2042.9	2057.5
40°	1874.9	1877.3	1933.3	1950.3	1967.4
42.5°	1775.0	1779.9	1831.0	1855.4	1872.4
45°	1672.8	1680.1	1733.6	1758.0	1777.5
47.5°	1572.9	1580.2	1633.8	1660.6	1680.1
50°	1463.4	1480.4	1534.0	1558.3	1580.2
52.5°	1361.1	1378.1	1426.8	1458.5	1478.0
55°	1258.8	1275.9	1322.1	1356.2	1373.3
57.5°	1154.1	1178.5	1219.9	1254.0	1271.0
60°	1056.7	1071.4	1117.6	1151.7	1166.3
62.5°	952.0	966.7	1010.5	1051.9	1061.6
65°	849.8	861.9	908.2	944.7	961.8
67.5°	745.1	759.7	805.9	844.9	861.9
70°	640.4	655.0	706.1	749.9	764.6
72.5°	533.2	550.3	601.4	652.5	669.6
75°	433.4	452.9	506.5	557.6	572.2
77.5°	336.0	360.4	418.8	472.4	491.8
80°	245.9	275.1	338.4	396.9	413.9
82.5°	168.0	199.7	265.4	326.3	348.2
85°	99.8	131.5	202.1	260.5	280.0
87.5°	43.8	77.9	146.1	202.1	219.1
90°	2.4	41.4	99.8	151.0	170.4
92.5°	0.0	17.0	63.3	107.1	126.6
95°	0.0	2.4	36.5	73.0	87.7
97.5°	0.0	0.0	17.0	43.8	56.0
100°	0.0	0.0	2.4	21.9	31.7
102.5°	2.4	0.0	0.0	4.9	12.2
105°	2.4	0.0	0.0	0.0	2.4
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)