

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: P233359

Luminaire Tested: **HGL-S-FR-30L840-UNV-8**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P233359  
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-30L840-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: 6393.8 lumens  
Efficiency: N/A  
Efficacy: 143.4 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

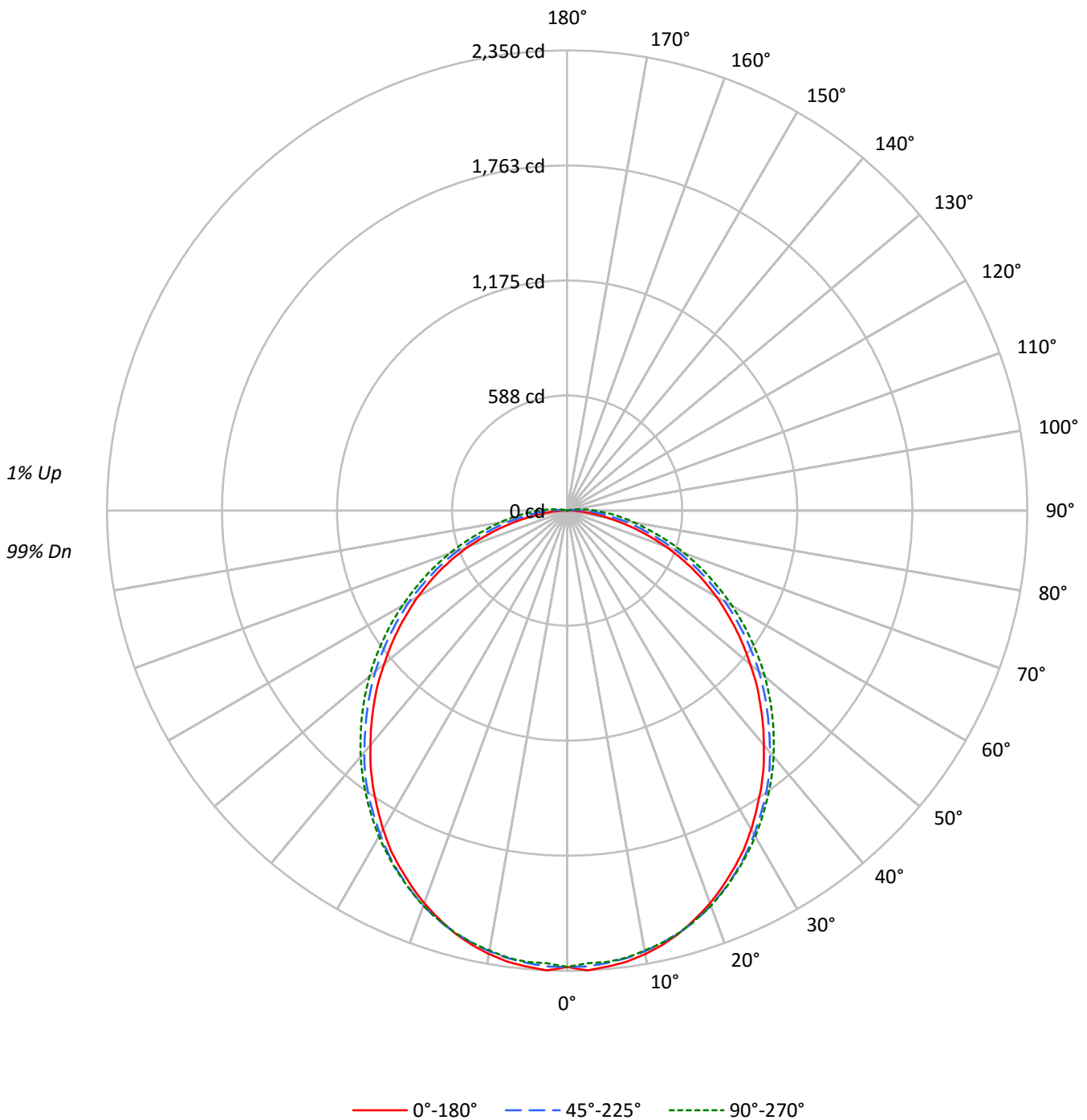
Input Watts (W): 44.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	13681	13681	13681
5°	13780	13635	13586
10°	13707	13550	13498
15°	13554	13433	13390
20°	13323	13264	13208
25°	13050	13009	12965
30°	12734	12716	12711
35°	12369	12411	12423
40°	11966	12032	12126
45°	11564	11631	11788
50°	11126	11255	11437
55°	10723	10793	11031
60°	10322	10370	10615
65°	9815	9848	10186
70°	9132	9294	9770
75°	8158	8563	9305
80°	6882	8083	9353
85°	5526	8329	10491



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	220.2	3.4
10°-20°	626.6	9.8
20°-30°	933.1	14.6
30°-40°	1098.2	17.2
40°-50°	1109.2	17.3
50°-60°	983.0	15.4
60°-70°	747.9	11.7
70°-80°	449.0	7.0
80°-90°	184.5	2.9
90°-100°	40.1	0.6
100°-110°	1.9	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°	1779.9	27.8
0°-40°	2878.1	45.0
0°-60°	4970.3	77.7
0°-90°	6351.7	99.3
90°-120°	42.1	0.7
90°-150°	42.1	0.7
90°-180°	42.0	0.7
0°-180°	6393.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2330	2330	2330	2330	2330	
5°	2338	2312	2320	2316	2314	222
15°	2231	2208	2229	2227	2229	628
25°	2016	1999	2038	2036	2042	928
35°	1727	1721	1770	1778	1786	1080
45°	1394	1401	1445	1466	1482	1076
55°	1049	1064	1102	1131	1145	938
65°	708	718	757	788	802	700
75°	361	378	422	465	477	384
85°	83	110	168	217	233	94
90°	2	34	83	126	142	6
95°	0	2	30	61	73	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°	2330.2	2330.2	2330.2	2330.2	2330.2
2.5°	2350.5	2324.1	2330.2	2326.1	2314.0
5°	2338.3	2311.9	2320.0	2316.0	2314.0
7.5°	2324.1	2297.7	2305.8	2301.8	2303.8
10°	2299.7	2273.4	2285.5	2281.5	2281.5
12.5°	2269.3	2247.0	2259.2	2255.1	2259.2
15°	2230.7	2208.4	2228.7	2226.7	2228.7
17.5°	2184.0	2163.8	2192.2	2188.1	2190.1
20°	2133.3	2113.0	2147.5	2139.4	2147.5
22.5°	2076.5	2060.2	2094.7	2088.7	2096.8
25°	2015.6	1999.3	2037.9	2035.9	2042.0
27.5°	1952.7	1938.4	1977.0	1981.1	1983.1
30°	1879.6	1869.4	1910.0	1916.1	1922.2
32.5°	1802.5	1796.4	1839.0	1849.1	1855.2
35°	1727.3	1721.3	1770.0	1778.1	1786.2
37.5°	1648.2	1644.1	1694.9	1703.0	1715.2
40°	1562.9	1565.0	1611.7	1625.9	1640.1
42.5°	1479.7	1483.8	1526.4	1546.7	1560.9
45°	1394.5	1400.6	1445.2	1465.5	1481.7
47.5°	1311.2	1317.3	1362.0	1384.3	1400.6
50°	1219.9	1234.1	1278.8	1299.1	1317.3
52.5°	1134.7	1148.9	1189.5	1215.8	1232.1
55°	1049.4	1063.6	1102.2	1130.6	1144.8
57.5°	962.1	982.4	1016.9	1045.3	1059.5
60°	880.9	893.1	931.7	960.1	972.3
62.5°	793.6	805.8	842.4	876.9	885.0
65°	708.4	718.5	757.1	787.6	801.8
67.5°	621.1	633.3	671.9	704.3	718.5
70°	533.8	546.0	588.6	625.2	637.4
72.5°	444.5	458.7	501.4	544.0	558.2
75°	361.3	377.5	422.2	464.8	477.0
77.5°	280.1	300.4	349.1	393.8	410.0
80°	205.0	229.4	282.1	330.9	345.1
82.5°	140.1	166.4	221.2	272.0	290.3
85°	83.2	109.6	168.5	217.2	233.4
87.5°	36.5	65.0	121.8	168.5	182.7
90°	2.0	34.5	83.2	125.8	142.1
92.5°	0.0	14.2	52.8	89.3	105.5
95°	0.0	2.0	30.4	60.9	73.1
97.5°	0.0	0.0	14.2	36.5	46.7
100°	0.0	0.0	2.0	18.3	26.4
102.5°	2.0	0.0	0.0	4.1	10.1
105°	2.0	0.0	0.0	0.0	2.0
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)