

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: P257017

Luminaire Tested: **HGL-S-FR-80L930-UNV-4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P257017  
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-4  
Description: HUGO 4 FOOT LINEAR LED LUMINAIRE WITH FROSTED LENS  
Light Source: (168) 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6022.1 lumens  
Efficiency: N/A  
Efficacy: 84.9 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.33  
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 4' x H: 0.01')  
CIE Type: Direct

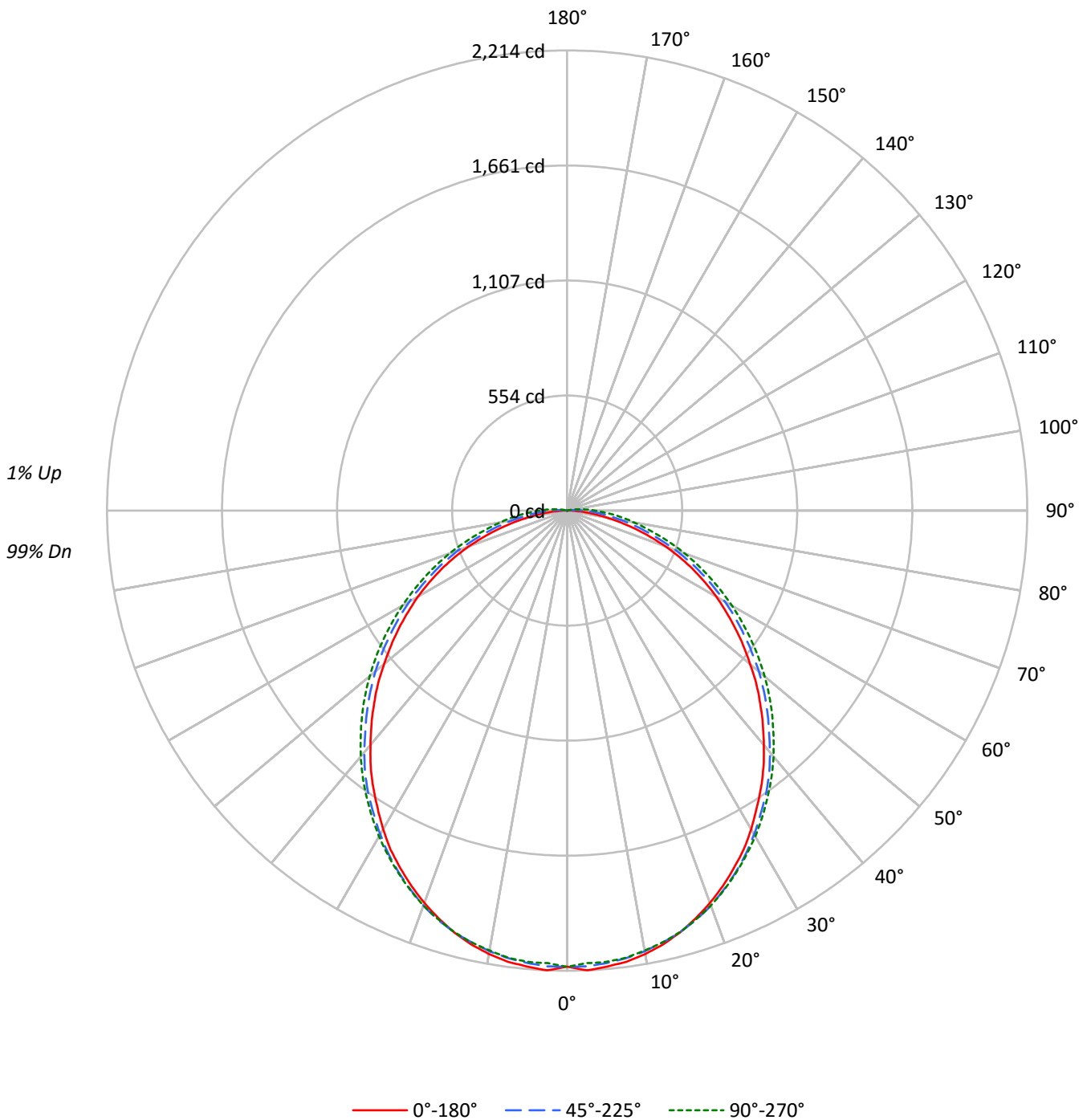
Input Watts (W): 70.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	25953	25683	25592
10°	25815	25520	25426
15°	25524	25297	25223
20°	25085	24978	24879
25°	24568	24496	24421
30°	23969	23942	23944
35°	23281	23364	23401
40°	22518	22647	22842
45°	21756	21890	22207
50°	20928	21179	21545
55°	20163	20306	20778
60°	19401	19506	19994
65°	18439	18518	19185
70°	17145	17468	18403
75°	15296	16081	17530
80°	12875	15162	17617
85°	10269	15574	19768



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	207.4	3.4
10°-20°	590.1	9.8
20°-30°	878.8	14.6
30°-40°	1034.3	17.2
40°-50°	1044.7	17.3
50°-60°	925.8	15.4
60°-70°	704.4	11.7
70°-80°	422.9	7.0
80°-90°	173.8	2.9
90°-100°	37.8	0.6
100°-110°	1.8	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°	1676.4	27.8
0°-40°	2710.7	45.0
0°-60°	4681.3	77.7
0°-90°	5982.4	99.3
90°-120°	39.7	0.7
90°-150°	39.7	0.7
90°-180°	40.0	0.7
0°-180°	6022.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2195	2195	2195	2195	2195	
5°	2202	2178	2185	2181	2179	209
15°	2101	2080	2099	2097	2099	592
25°	1898	1883	1919	1918	1923	874
35°	1627	1621	1667	1675	1682	1017
45°	1313	1319	1361	1380	1396	1014
55°	988	1002	1038	1065	1078	884
65°	667	677	713	742	755	660
75°	340	356	398	438	449	361
85°	78	103	159	205	220	88
90°	2	32	78	118	134	5
95°	0	2	29	57	69	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°	2194.7	2194.7	2194.7	2194.7	2194.7
2.5°	2213.8	2189.0	2194.7	2190.9	2179.4
5°	2202.3	2177.5	2185.1	2181.3	2179.4
7.5°	2189.0	2164.1	2171.8	2167.9	2169.8
10°	2166.0	2141.2	2152.6	2148.8	2148.8
12.5°	2137.3	2116.3	2127.8	2124.0	2127.8
15°	2101.0	2080.0	2099.1	2097.2	2099.1
17.5°	2057.1	2037.9	2064.7	2060.9	2062.8
20°	2009.3	1990.1	2022.6	2015.0	2022.6
22.5°	1955.7	1940.4	1972.9	1967.2	1974.8
25°	1898.4	1883.1	1919.4	1917.5	1923.2
27.5°	1839.1	1825.7	1862.1	1865.9	1867.8
30°	1770.3	1760.7	1799.0	1804.7	1810.4
32.5°	1697.6	1691.9	1732.1	1741.6	1747.3
35°	1626.9	1621.2	1667.1	1674.7	1682.3
37.5°	1552.3	1548.5	1596.3	1604.0	1615.4
40°	1472.1	1474.0	1517.9	1531.3	1544.7
42.5°	1393.7	1397.5	1437.6	1456.8	1470.1
45°	1313.4	1319.1	1361.2	1380.3	1395.6
47.5°	1235.0	1240.7	1282.8	1303.8	1319.1
50°	1149.0	1162.3	1204.4	1223.5	1240.7
52.5°	1068.7	1082.1	1120.3	1145.1	1160.4
55°	988.4	1001.8	1038.1	1064.8	1078.2
57.5°	906.2	925.3	957.8	984.6	997.9
60°	829.7	841.2	877.5	904.3	915.7
62.5°	747.5	759.0	793.4	825.9	833.5
65°	667.2	676.8	713.1	741.8	755.1
67.5°	585.0	596.5	632.8	663.4	676.8
70°	502.8	514.3	554.4	588.8	600.3
72.5°	418.7	432.1	472.2	512.4	525.7
75°	340.3	355.6	397.6	437.8	449.3
77.5°	263.8	282.9	328.8	370.9	386.2
80°	193.1	216.0	265.7	311.6	325.0
82.5°	131.9	156.8	208.4	256.2	273.4
85°	78.4	103.2	158.7	204.6	219.9
87.5°	34.4	61.2	114.7	158.7	172.1
90°	1.9	32.5	78.4	118.5	133.8
92.5°	0.0	13.4	49.7	84.1	99.4
95°	0.0	1.9	28.7	57.4	68.8
97.5°	0.0	0.0	13.4	34.4	44.0
100°	0.0	0.0	1.9	17.2	24.9
102.5°	1.9	0.0	0.0	3.8	9.6
105°	1.9	0.0	0.0	0.0	1.9
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)