

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: P233355

Luminaire Tested: **HGL-S-FR-30L830-UNV-8**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P233355  
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-30L830-UNV-8  
Description: HUGO 8 FOOT LINEAR LED LUMINAIRE WITH FROSTED LENS  
Light Source: (336) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6072.6 lumens  
Efficiency: N/A  
Efficacy: 136.2 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

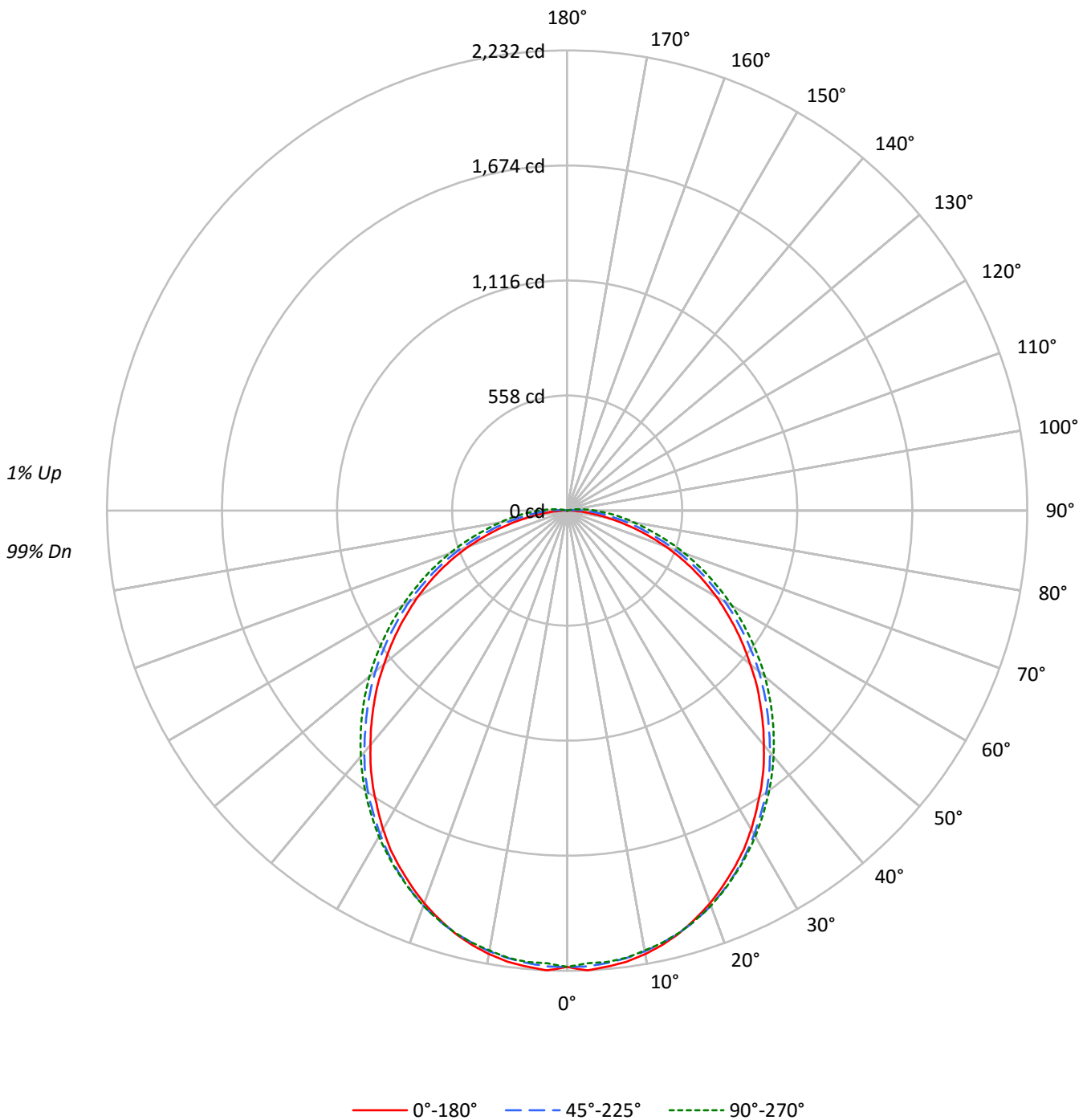
Input Watts (W): 44.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	12994	12994	12994
5°	13088	12951	12903
10°	13019	12869	12820
15°	12874	12758	12718
20°	12653	12598	12544
25°	12394	12356	12313
30°	12094	12077	12073
35°	11749	11787	11799
40°	11365	11427	11517
45°	10983	11046	11196
50°	10567	10689	10864
55°	10184	10251	10477
60°	9804	9849	10081
65°	9322	9353	9674
70°	8674	8828	9278
75°	7749	8133	8837
80°	6537	7679	8882
85°	5247	7909	9965



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	209.2	3.4
10°-20°	595.1	9.8
20°-30°	886.2	14.6
30°-40°	1043.0	17.2
40°-50°	1053.5	17.3
50°-60°	933.6	15.4
60°-70°	710.3	11.7
70°-80°	426.5	7.0
80°-90°	175.2	2.9
90°-100°	38.1	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°	1690.5	27.8
0°-40°	2733.5	45.0
0°-60°	4720.6	77.7
0°-90°	6032.7	99.3
90°-120°	40.0	0.7
90°-150°	40.0	0.7
90°-180°	40.0	0.7
0°-180°	6072.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2213	2213	2213	2213	2213	
5°	2221	2196	2204	2200	2198	211
15°	2119	2098	2117	2115	2117	597
25°	1914	1899	1936	1934	1939	882
35°	1641	1635	1681	1689	1696	1025
45°	1324	1330	1373	1392	1407	1022
55°	997	1010	1047	1074	1087	891
65°	673	682	719	748	762	665
75°	343	359	401	442	453	364
85°	79	104	160	206	222	89
90°	2	33	79	120	135	5
95°	0	2	29	58	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°	2213.1	2213.1	2213.1	2213.1	2213.1
2.5°	2232.4	2207.4	2213.1	2209.3	2197.7
5°	2220.9	2195.8	2203.5	2199.7	2197.7
7.5°	2207.4	2182.3	2190.0	2186.2	2188.1
10°	2184.2	2159.2	2170.7	2166.9	2166.9
12.5°	2155.3	2134.1	2145.7	2141.8	2145.7
15°	2118.7	2097.5	2116.8	2114.8	2116.8
17.5°	2074.3	2055.1	2082.1	2078.2	2080.1
20°	2026.1	2006.9	2039.6	2031.9	2039.6
22.5°	1972.2	1956.7	1989.5	1983.7	1991.4
25°	1914.3	1898.9	1935.5	1933.6	1939.4
27.5°	1854.6	1841.1	1877.7	1881.6	1883.5
30°	1785.2	1775.5	1814.1	1819.9	1825.7
32.5°	1711.9	1706.1	1746.6	1756.3	1762.0
35°	1640.6	1634.8	1681.1	1688.8	1696.5
37.5°	1565.4	1561.5	1609.7	1617.4	1629.0
40°	1484.4	1486.4	1530.7	1544.2	1557.7
42.5°	1405.4	1409.2	1449.7	1469.0	1482.5
45°	1324.4	1330.2	1372.6	1391.9	1407.3
47.5°	1245.4	1251.2	1293.6	1314.8	1330.2
50°	1158.6	1172.1	1214.5	1233.8	1251.2
52.5°	1077.7	1091.2	1129.7	1154.8	1170.2
55°	996.7	1010.2	1046.8	1073.8	1087.3
57.5°	913.8	933.1	965.8	992.8	1006.3
60°	836.7	848.2	884.9	911.9	923.4
62.5°	753.8	765.3	800.0	832.8	840.5
65°	672.8	682.5	719.1	748.0	761.5
67.5°	589.9	601.5	638.1	669.0	682.5
70°	507.0	518.6	559.1	593.8	605.3
72.5°	422.2	435.7	476.2	516.7	530.2
75°	343.2	358.6	401.0	441.5	453.0
77.5°	266.0	285.3	331.6	374.0	389.4
80°	194.7	217.8	268.0	314.2	327.7
82.5°	133.0	158.1	210.1	258.3	275.7
85°	79.0	104.1	160.0	206.3	221.7
87.5°	34.7	61.7	115.7	160.0	173.5
90°	1.9	32.8	79.0	119.5	134.9
92.5°	0.0	13.5	50.1	84.8	100.2
95°	0.0	1.9	28.9	57.8	69.4
97.5°	0.0	0.0	13.5	34.7	44.3
100°	0.0	0.0	1.9	17.4	25.1
102.5°	1.9	0.0	0.0	3.9	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)