

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: P233357

Luminaire Tested: **HGL-S-FR-30L835-UNV-8**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P233357  
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-30L835-UNV-8  
Description: HUGO 8 FOOT LINEAR LED LUMINAIRE WITH FROSTED LENS  
Light Source: (336) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6300.0 lumens  
Efficiency: N/A  
Efficacy: 141.3 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

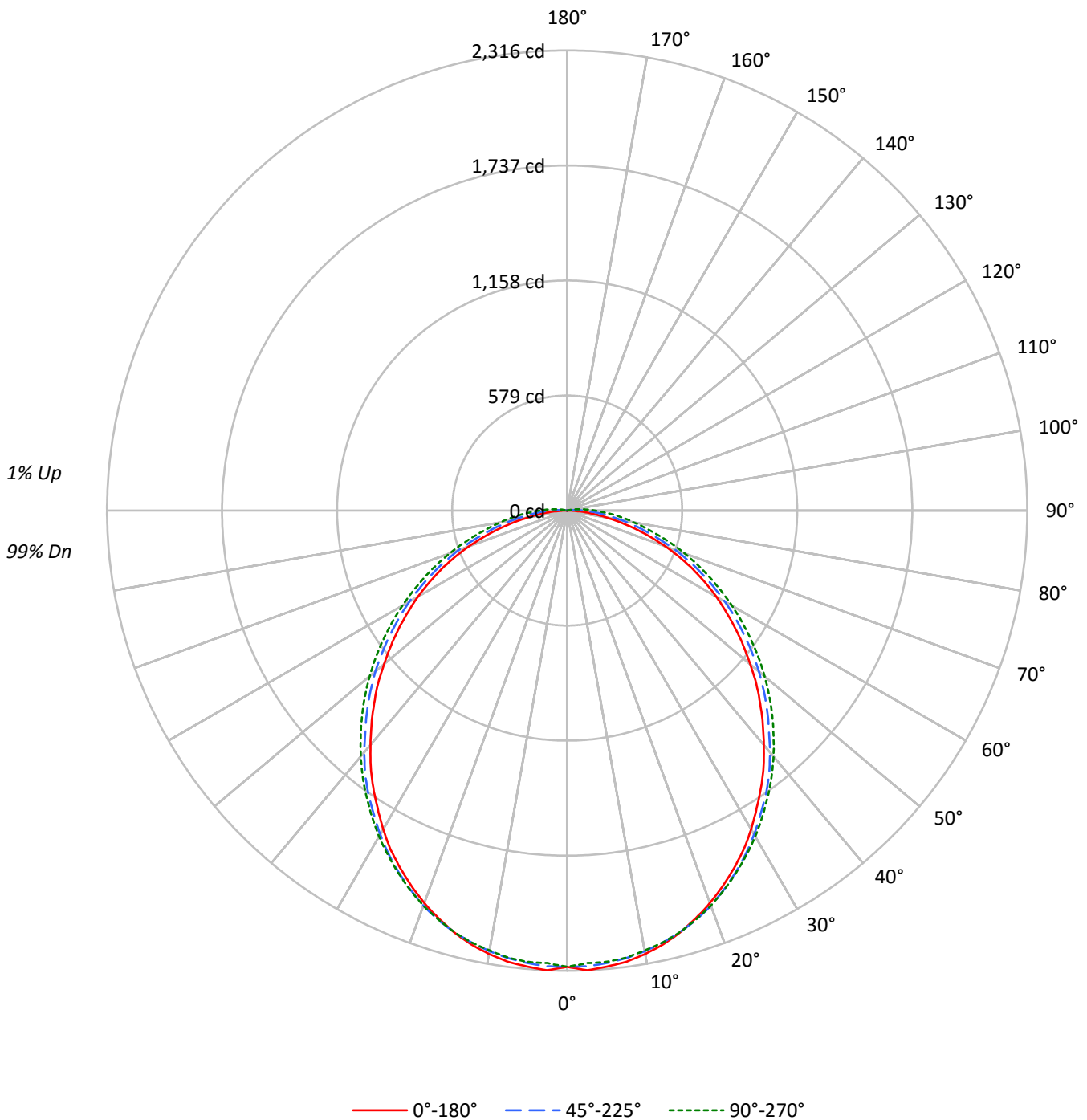
Input Watts (W): 44.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20			20			20			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°	13480	13480	13480
5°	13577	13436	13386
10°	13506	13351	13300
15°	13356	13235	13194
20°	13127	13070	13014
25°	12858	12818	12774
30°	12547	12529	12525
35°	12188	12228	12241
40°	11791	11855	11948
45°	11394	11460	11616
50°	10963	11089	11270
55°	10565	10634	10869
60°	10170	10218	10459
65°	9671	9703	10036
70°	8999	9158	9626
75°	8038	8437	9169
80°	6782	7966	9215
85°	5446	8206	10338



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	217.0	3.4
10°-20°	617.4	9.8
20°-30°	919.4	14.6
30°-40°	1082.1	17.2
40°-50°	1092.9	17.3
50°-60°	968.5	15.4
60°-70°	736.9	11.7
70°-80°	442.4	7.0
80°-90°	181.8	2.9
90°-100°	39.6	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°	1753.8	27.8
0°-40°	2835.9	45.0
0°-60°	4897.3	77.7
0°-90°	6258.5	99.3
90°-120°	41.5	0.7
90°-150°	41.5	0.7
90°-180°	41.0	0.7
0°-180°	6300.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2296	2296	2296	2296	2296	
5°	2304	2278	2286	2282	2280	219
15°	2198	2176	2196	2194	2196	619
25°	1986	1970	2008	2006	2012	915
35°	1702	1696	1744	1752	1760	1064
45°	1374	1380	1424	1444	1460	1060
55°	1034	1048	1086	1114	1128	925
65°	698	708	746	776	790	690
75°	356	372	416	458	470	378
85°	82	108	166	214	230	92
90°	2	34	82	124	140	5
95°	0	2	30	60	72	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°	2296	2296	2296	2296	2296
2.5°	2316	2290	2296	2292	2280
5°	2304	2278	2286	2282	2280
7.5°	2290	2264	2272	2268	2270
10°	2266	2240	2252	2248	2248
12.5°	2236	2214	2226	2222	2226
15°	2198	2176	2196	2194	2196
17.5°	2152	2132	2160	2156	2158
20°	2102	2082	2116	2108	2116
22.5°	2046	2030	2064	2058	2066
25°	1986	1970	2008	2006	2012
27.5°	1924	1910	1948	1952	1954
30°	1852	1842	1882	1888	1894
32.5°	1776	1770	1812	1822	1828
35°	1702	1696	1744	1752	1760
37.5°	1624	1620	1670	1678	1690
40°	1540	1542	1588	1602	1616
42.5°	1458	1462	1504	1524	1538
45°	1374	1380	1424	1444	1460
47.5°	1292	1298	1342	1364	1380
50°	1202	1216	1260	1280	1298
52.5°	1118	1132	1172	1198	1214
55°	1034	1048	1086	1114	1128
57.5°	948	968	1002	1030	1044
60°	868	880	918	946	958
62.5°	782	794	830	864	872
65°	698	708	746	776	790
67.5°	612	624	662	694	708
70°	526	538	580	616	628
72.5°	438	452	494	536	550
75°	356	372	416	458	470
77.5°	276	296	344	388	404
80°	202	226	278	326	340
82.5°	138	164	218	268	286
85°	82	108	166	214	230
87.5°	36	64	120	166	180
90°	2	34	82	124	140
92.5°	0	14	52	88	104
95°	0	2	30	60	72
97.5°	0	0	14	36	46
100°	0	0	2	18	26
102.5°	2	0	0	4	10
105°	2	0	0	0	2
107.5°	0	0	0	0	0
110°	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
115°	0	0	0	0	0
117.5°	0	0	0	0	0
120°	0	0	0	0	0
122.5°	0	0	0	0	0
125°	0	0	0	0	0
127.5°	0	0	0	0	0
130°	0	0	0	0	0
132.5°	0	0	0	0	0
135°	0	0	0	0	0
137.5°	0	0	0	0	0
140°	0	0	0	0	0
142.5°	0	0	0	0	0
145°	0	0	0	0	0
147.5°	0	0	0	0	0
150°	0	0	0	0	0
152.5°	0	0	0	0	0
155°	0	0	0	0	0
157.5°	0	0	0	0	0
160°	0	0	0	0	0
162.5°	0	0	0	0	0
165°	0	0	0	0	0
167.5°	0	0	0	0	0
170°	0	0	0	0	0
172.5°	0	0	0	0	0
175°	0	0	0	0	0
177.5°	0	0	0	0	0
180°	0	0	0	0	0

(END OF REPORT)