

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: P233381

Luminaire Tested: **HGL-S-FR-80L835-UNV-8**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P233381  
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-80L835-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: 16124.6 lumens  
Efficiency: N/A  
Efficacy: 114.4 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

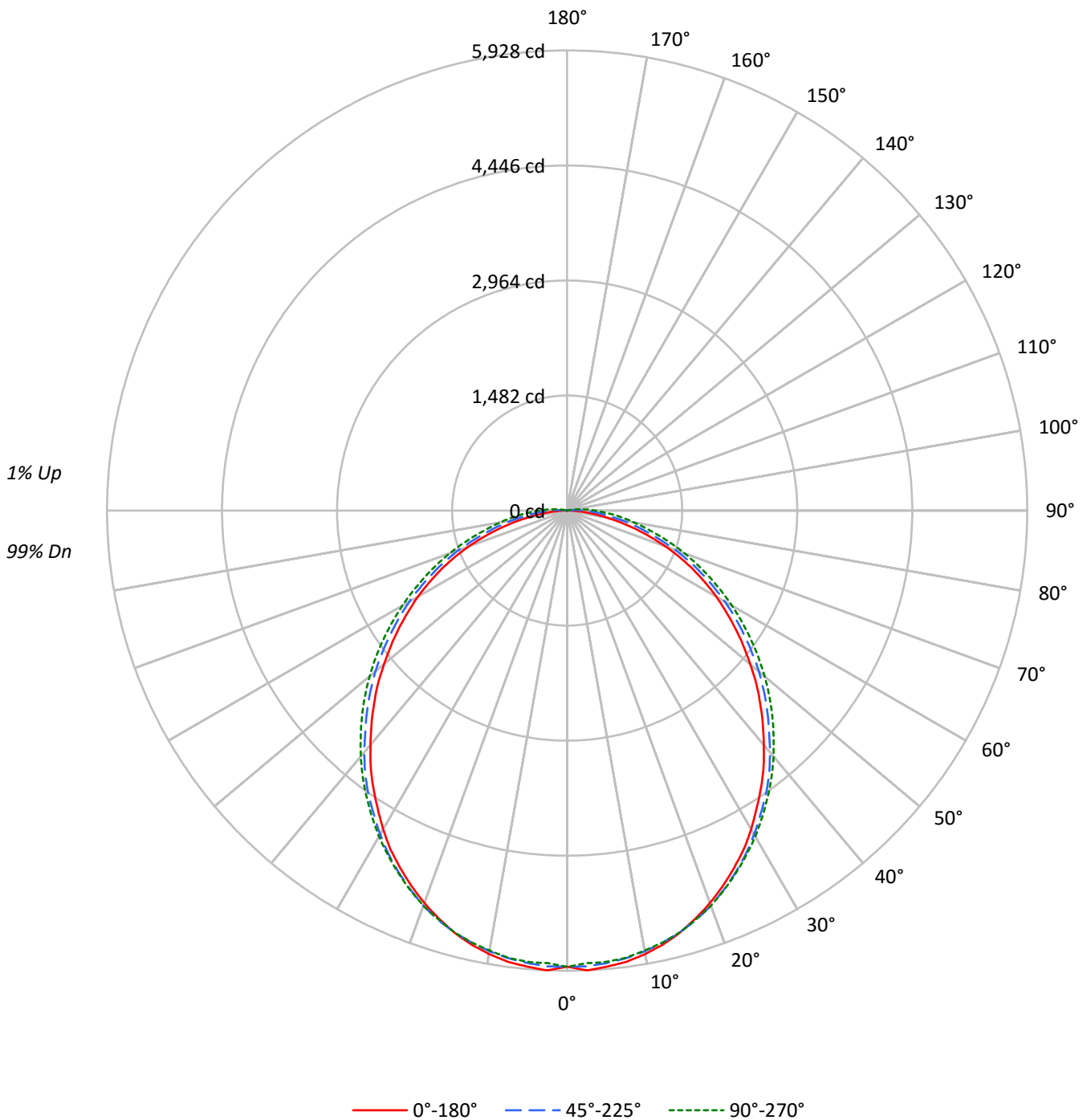
Input Watts (W): 141  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	34502	34502	34502
5°	34751	34388	34262
10°	34570	34172	34040
15°	34183	33876	33769
20°	33599	33452	33309
25°	32910	32808	32695
30°	32112	32069	32057
35°	31195	31298	31330
40°	30178	30343	30581
45°	29163	29332	29730
50°	28059	28383	28845
55°	27042	27219	27819
60°	26031	26152	26769
65°	24753	24836	25687
70°	23032	23439	24638
75°	20574	21594	23468
80°	17357	20387	23586
85°	13941	21004	26460



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	555.4	3.4
10°-20°	1580.1	9.8
20°-30°	2353.2	14.6
30°-40°	2769.6	17.2
40°-50°	2797.3	17.3
50°-60°	2479.0	15.4
60°-70°	1886.2	11.7
70°-80°	1132.4	7.0
80°-90°	465.3	2.9
90°-100°	101.3	0.6
100°-110°	4.9	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°	4488.7	27.8
0°-40°	7258.3	45.0
0°-60°	12534.6	77.7
0°-90°	16018.5	99.3
90°-120°	106.2	0.7
90°-150°	106.2	0.7
90°-180°	106.0	0.7
0°-180°	16124.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5876	5876	5876	5876	5876	
5°	5897	5830	5851	5841	5836	560
15°	5626	5569	5621	5616	5621	1585
25°	5083	5042	5139	5134	5150	2341
35°	4356	4341	4464	4484	4505	2723
45°	3517	3532	3645	3696	3737	2714
55°	2646	2682	2780	2851	2887	2366
65°	1786	1812	1909	1986	2022	1766
75°	911	952	1065	1172	1203	967
85°	210	276	425	548	589	236
90°	5	87	210	317	358	14
95°	0	5	77	154	184	0
105°	5	0	0	0	5	3
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



TEST NUMBER: P233381

CATALOG NUMBER: HGL-S-FR-80L835-UNV-8

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5876.5	5876.5	5876.5	5876.5	5876.5
2.5°	5927.7	5861.2	5876.5	5866.3	5835.6
5°	5897.0	5830.5	5850.9	5840.7	5835.6
7.5°	5861.2	5794.6	5815.1	5804.9	5810.0
10°	5799.8	5733.2	5763.9	5753.7	5753.7
12.5°	5723.0	5666.7	5697.4	5687.1	5697.4
15°	5625.7	5569.4	5620.6	5615.5	5620.6
17.5°	5508.0	5456.8	5528.5	5518.2	5523.3
20°	5380.0	5328.8	5415.8	5395.4	5415.8
22.5°	5236.7	5195.7	5282.7	5267.4	5287.9
25°	5083.1	5042.2	5139.4	5134.3	5149.7
27.5°	4924.4	4888.6	4985.8	4996.1	5001.2
30°	4740.1	4714.5	4816.9	4832.3	4847.6
32.5°	4545.6	4530.3	4637.8	4663.4	4678.7
35°	4356.2	4340.9	4463.7	4484.2	4504.7
37.5°	4156.6	4146.3	4274.3	4294.8	4325.5
40°	3941.6	3946.7	4064.4	4100.3	4136.1
42.5°	3731.7	3741.9	3849.4	3900.6	3936.5
45°	3516.7	3532.1	3644.7	3695.9	3736.8
47.5°	3306.8	3322.2	3434.8	3491.1	3532.1
50°	3076.5	3112.3	3224.9	3276.1	3322.2
52.5°	2861.5	2897.3	2999.7	3066.2	3107.2
55°	2646.5	2682.3	2779.6	2851.2	2887.1
57.5°	2426.4	2477.6	2564.6	2636.3	2672.1
60°	2221.6	2252.3	2349.6	2421.3	2452.0
62.5°	2001.5	2032.2	2124.4	2211.4	2231.9
65°	1786.5	1812.1	1909.4	1986.1	2022.0
67.5°	1566.4	1597.1	1694.4	1776.3	1812.1
70°	1346.3	1377.0	1484.5	1576.6	1607.3
72.5°	1121.0	1156.9	1264.4	1371.9	1407.7
75°	911.2	952.1	1064.7	1172.2	1203.0
77.5°	706.4	757.6	880.5	993.1	1034.0
80°	517.0	578.4	711.5	834.4	870.2
82.5°	353.2	419.8	558.0	685.9	732.0
85°	209.9	276.4	424.9	547.7	588.7
87.5°	92.1	163.8	307.1	424.9	460.7
90°	5.1	87.0	209.9	317.4	358.3
92.5°	0.0	35.8	133.1	225.2	266.2
95°	0.0	5.1	76.8	153.6	184.3
97.5°	0.0	0.0	35.8	92.1	117.7
100°	0.0	0.0	5.1	46.1	66.5
102.5°	5.1	0.0	0.0	10.2	25.6
105°	5.1	0.0	0.0	0.0	5.1
107.5°	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P233381

CATALOG NUMBER: HGL-S-FR-80L835-UNV-8

**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)