

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: P233383

Luminaire Tested: **HGL-S-FR-80L840-UNV-8**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P233383  
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-80L840-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: 15542.8 lumens  
Efficiency: N/A  
Efficacy: 110.2 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

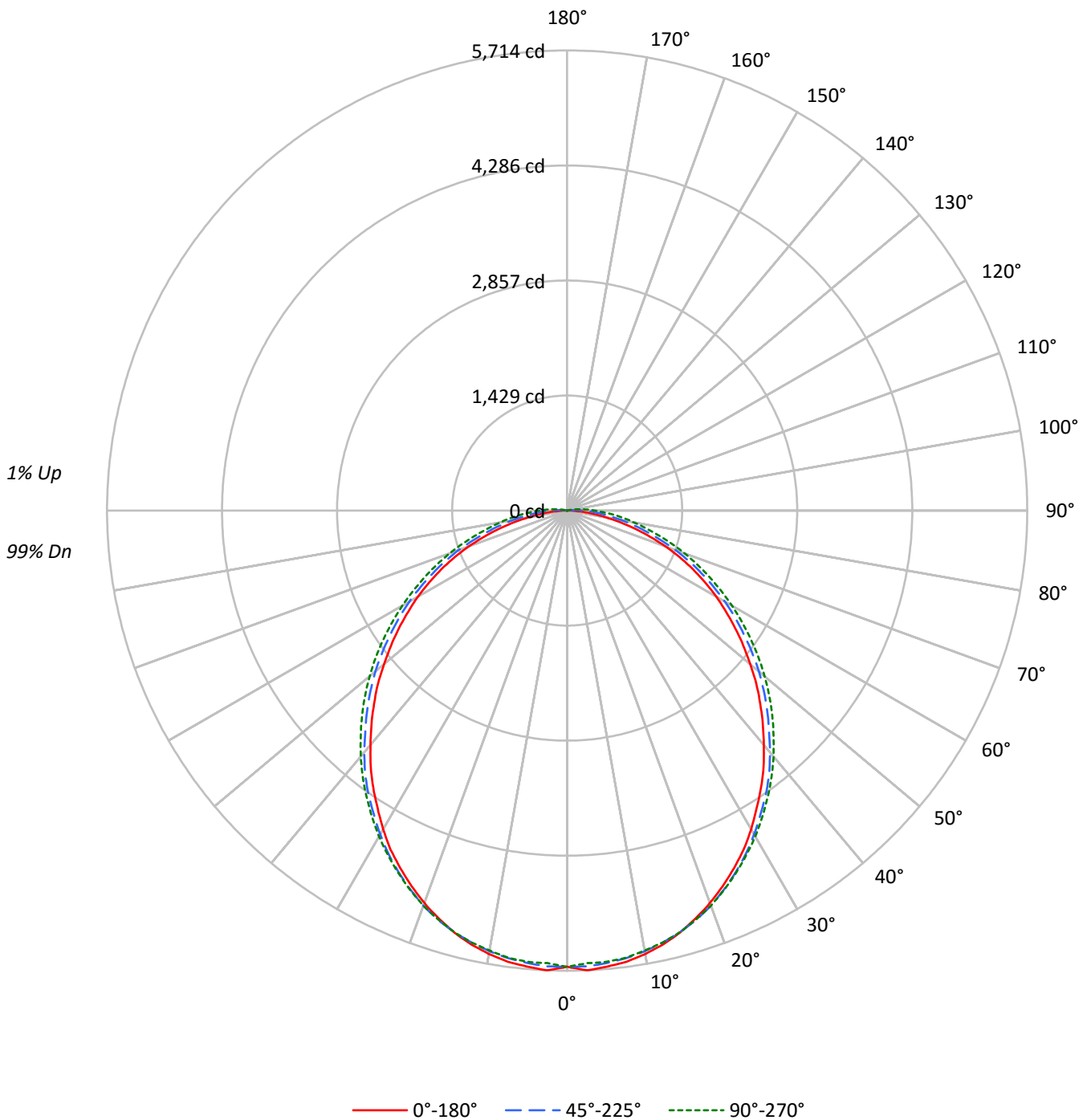
Input Watts (W): 141  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	33258	33258	33258
5°	33497	33147	33026
10°	33322	32939	32812
15°	32950	32653	32551
20°	32387	32245	32107
25°	31723	31625	31515
30°	30954	30911	30900
35°	30070	30168	30199
40°	29089	29248	29477
45°	28111	28273	28657
50°	27047	27359	27804
55°	26066	26236	26815
60°	25092	25208	25803
65°	23859	23940	24760
70°	22200	22593	23749
75°	19831	20816	22619
80°	16733	19653	22734
85°	13436	20242	25503



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	535.4	3.4
10°-20°	1523.1	9.8
20°-30°	2268.3	14.6
30°-40°	2669.6	17.2
40°-50°	2696.4	17.3
50°-60°	2389.5	15.4
60°-70°	1818.1	11.7
70°-80°	1091.5	7.0
80°-90°	448.5	2.9
90°-100°	97.6	0.6
100°-110°	4.7	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°	4326.8	27.8
0°-40°	6996.4	45.0
0°-60°	12082.3	77.7
0°-90°	15440.5	99.3
90°-120°	102.3	0.7
90°-150°	102.3	0.7
90°-180°	102.0	0.7
0°-180°	15542.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5664	5664	5664	5664	5664	
5°	5684	5620	5640	5630	5625	540
15°	5423	5368	5418	5413	5418	1527
25°	4900	4860	4954	4949	4964	2256
35°	4199	4184	4303	4322	4342	2625
45°	3390	3405	3513	3562	3602	2616
55°	2551	2586	2679	2748	2783	2281
65°	1722	1747	1840	1914	1949	1702
75°	878	918	1026	1130	1160	933
85°	202	266	410	528	567	227
90°	5	84	202	306	345	14
95°	0	5	74	148	178	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



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5664.5	5664.5	5664.5	5664.5	5664.5
2.5°	5713.8	5649.7	5664.5	5654.6	5625.0
5°	5684.2	5620.1	5639.8	5629.9	5625.0
7.5°	5649.7	5585.5	5605.3	5595.4	5600.3
10°	5590.5	5526.3	5555.9	5546.1	5546.1
12.5°	5516.5	5462.2	5491.8	5481.9	5491.8
15°	5422.7	5368.4	5417.8	5412.8	5417.8
17.5°	5309.2	5259.9	5329.0	5319.1	5324.0
20°	5185.9	5136.5	5220.4	5200.7	5220.4
22.5°	5047.7	5008.2	5092.1	5077.3	5097.0
25°	4899.7	4860.2	4954.0	4949.0	4963.8
27.5°	4746.7	4712.2	4805.9	4815.8	4820.7
30°	4569.1	4544.4	4643.1	4657.9	4672.7
32.5°	4381.6	4366.8	4470.4	4495.1	4509.9
35°	4199.0	4184.2	4302.6	4322.4	4342.1
37.5°	4006.6	3996.7	4120.1	4139.8	4169.4
40°	3799.3	3804.3	3917.8	3952.3	3986.8
42.5°	3597.0	3606.9	3710.5	3759.9	3794.4
45°	3389.8	3404.6	3513.2	3562.5	3602.0
47.5°	3187.5	3202.3	3310.9	3365.1	3404.6
50°	2965.5	3000.0	3108.6	3157.9	3202.3
52.5°	2758.2	2792.8	2891.5	2955.6	2995.1
55°	2551.0	2585.5	2679.3	2748.4	2782.9
57.5°	2338.8	2388.2	2472.0	2541.1	2575.7
60°	2141.5	2171.1	2264.8	2333.9	2363.5
62.5°	1929.3	1958.9	2047.7	2131.6	2151.3
65°	1722.0	1746.7	1840.5	1914.5	1949.0
67.5°	1509.9	1539.5	1633.2	1712.2	1746.7
70°	1297.7	1327.3	1430.9	1519.7	1549.3
72.5°	1080.6	1115.1	1218.8	1322.4	1356.9
75°	878.3	917.8	1026.3	1129.9	1159.5
77.5°	680.9	730.3	848.7	957.2	996.7
80°	498.4	557.6	685.9	804.3	838.8
82.5°	340.5	404.6	537.8	661.2	705.6
85°	202.3	266.4	409.5	528.0	567.4
87.5°	88.8	157.9	296.1	409.5	444.1
90°	4.9	83.9	202.3	305.9	345.4
92.5°	0.0	34.5	128.3	217.1	256.6
95°	0.0	4.9	74.0	148.0	177.6
97.5°	0.0	0.0	34.5	88.8	113.5
100°	0.0	0.0	4.9	44.4	64.1
102.5°	4.9	0.0	0.0	9.9	24.7
105°	4.9	0.0	0.0	0.0	4.9
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)