

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: P233369

Luminaire Tested: **HGL-S-FR-50L835-UNV-8**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P233369  
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-50L835-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: 9957.7 lumens  
Efficiency: N/A  
Efficacy: 133.5 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

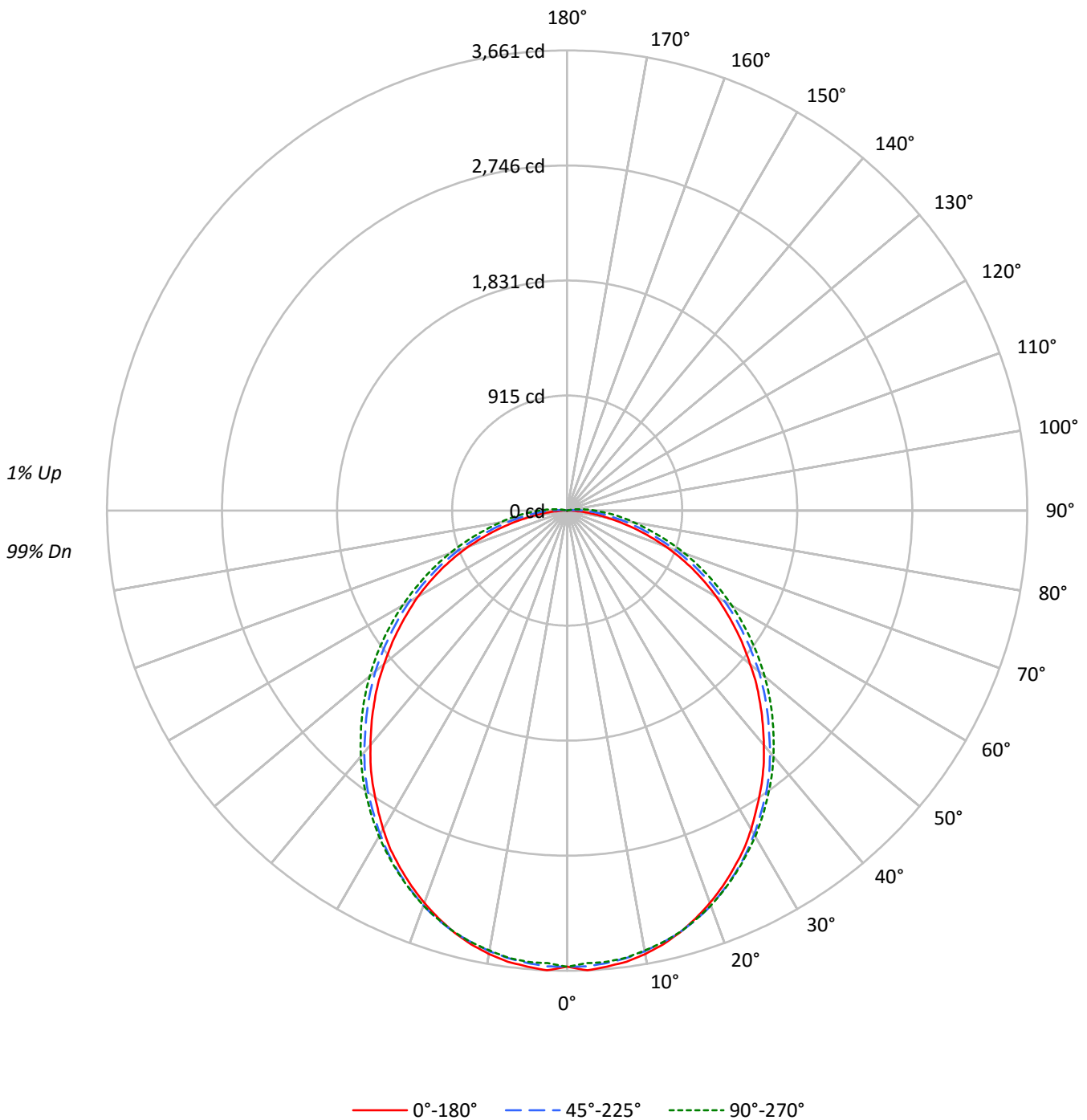
Input Watts (W): 74.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	21307	21307	21307
5°	21461	21236	21159
10°	21348	21103	21022
15°	21110	20920	20854
20°	20749	20658	20570
25°	20324	20261	20191
30°	19831	19804	19796
35°	19265	19328	19347
40°	18636	18738	18885
45°	18009	18114	18360
50°	17328	17527	17813
55°	16699	16808	17179
60°	16076	16150	16531
65°	15287	15337	15863
70°	14223	14474	15215
75°	12705	13336	14492
80°	10720	12590	14565
85°	8607	12971	16338



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	343.0	3.4
10°-20°	975.8	9.8
20°-30°	1453.2	14.6
30°-40°	1710.3	17.2
40°-50°	1727.5	17.3
50°-60°	1530.9	15.4
60°-70°	1164.8	11.7
70°-80°	699.3	7.0
80°-90°	287.4	2.9
90°-100°	62.5	0.6
100°-110°	3.0	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°	2772.0	27.8
0°-40°	4482.4	45.0
0°-60°	7740.7	77.7
0°-90°	9892.2	99.3
90°-120°	65.6	0.7
90°-150°	65.6	0.7
90°-180°	66.0	0.7
0°-180°	9957.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3629	3629	3629	3629	3629	
5°	3642	3601	3613	3607	3604	346
15°	3474	3439	3471	3468	3471	979
25°	3139	3114	3174	3171	3180	1446
35°	2690	2681	2757	2769	2782	1682
45°	2172	2181	2251	2282	2308	1676
55°	1634	1656	1716	1761	1783	1461
65°	1103	1119	1179	1226	1249	1091
75°	563	588	658	724	743	597
85°	130	171	262	338	364	146
90°	3	54	130	196	221	9
95°	0	3	47	95	114	0
105°	3	0	0	0	3	2
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°	3629.0	3629.0	3629.0	3629.0	3629.0
2.5°	3660.7	3619.6	3629.0	3622.7	3603.8
5°	3641.7	3600.6	3613.2	3606.9	3603.8
7.5°	3619.6	3578.5	3591.1	3584.8	3587.9
10°	3581.6	3540.5	3559.5	3553.2	3553.2
12.5°	3534.2	3499.4	3518.4	3512.1	3518.4
15°	3474.1	3439.4	3471.0	3467.8	3471.0
17.5°	3401.4	3369.8	3414.1	3407.8	3410.9
20°	3322.4	3290.8	3344.5	3331.9	3344.5
22.5°	3233.9	3208.6	3262.3	3252.9	3265.5
25°	3139.1	3113.8	3173.8	3170.7	3180.2
27.5°	3041.1	3018.9	3079.0	3085.3	3088.5
30°	2927.3	2911.5	2974.7	2984.2	2993.6
32.5°	2807.1	2797.6	2864.0	2879.8	2889.3
35°	2690.2	2680.7	2756.6	2769.2	2781.8
37.5°	2566.9	2560.6	2639.6	2652.2	2671.2
40°	2434.1	2437.3	2510.0	2532.1	2554.2
42.5°	2304.5	2310.8	2377.2	2408.8	2431.0
45°	2171.7	2181.2	2250.8	2282.4	2307.7
47.5°	2042.1	2051.6	2121.2	2155.9	2181.2
50°	1899.9	1922.0	1991.5	2023.2	2051.6
52.5°	1767.1	1789.2	1852.5	1893.5	1918.8
55°	1634.3	1656.5	1716.5	1760.8	1782.9
57.5°	1498.4	1530.0	1583.8	1628.0	1650.1
60°	1372.0	1390.9	1451.0	1495.2	1514.2
62.5°	1236.0	1255.0	1311.9	1365.6	1378.3
65°	1103.3	1119.1	1179.1	1226.5	1248.7
67.5°	967.3	986.3	1046.4	1096.9	1119.1
70°	831.4	850.4	916.7	973.6	992.6
72.5°	692.3	714.4	780.8	847.2	869.3
75°	562.7	588.0	657.5	723.9	742.9
77.5°	436.2	467.9	543.7	613.3	638.6
80°	319.3	357.2	439.4	515.3	537.4
82.5°	218.1	259.2	344.6	423.6	452.0
85°	129.6	170.7	262.4	338.2	363.5
87.5°	56.9	101.2	189.7	262.4	284.5
90°	3.2	53.7	129.6	196.0	221.3
92.5°	0.0	22.1	82.2	139.1	164.4
95°	0.0	3.2	47.4	94.8	113.8
97.5°	0.0	0.0	22.1	56.9	72.7
100°	0.0	0.0	3.2	28.5	41.1
102.5°	3.2	0.0	0.0	6.3	15.8
105°	3.2	0.0	0.0	0.0	3.2
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)