

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: P233377

Luminaire Tested: **HGL-S-FR-60L840-UNV-8**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P233377  
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-60L840-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: 11597.9 lumens  
Efficiency: N/A  
Efficacy: 122.7 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

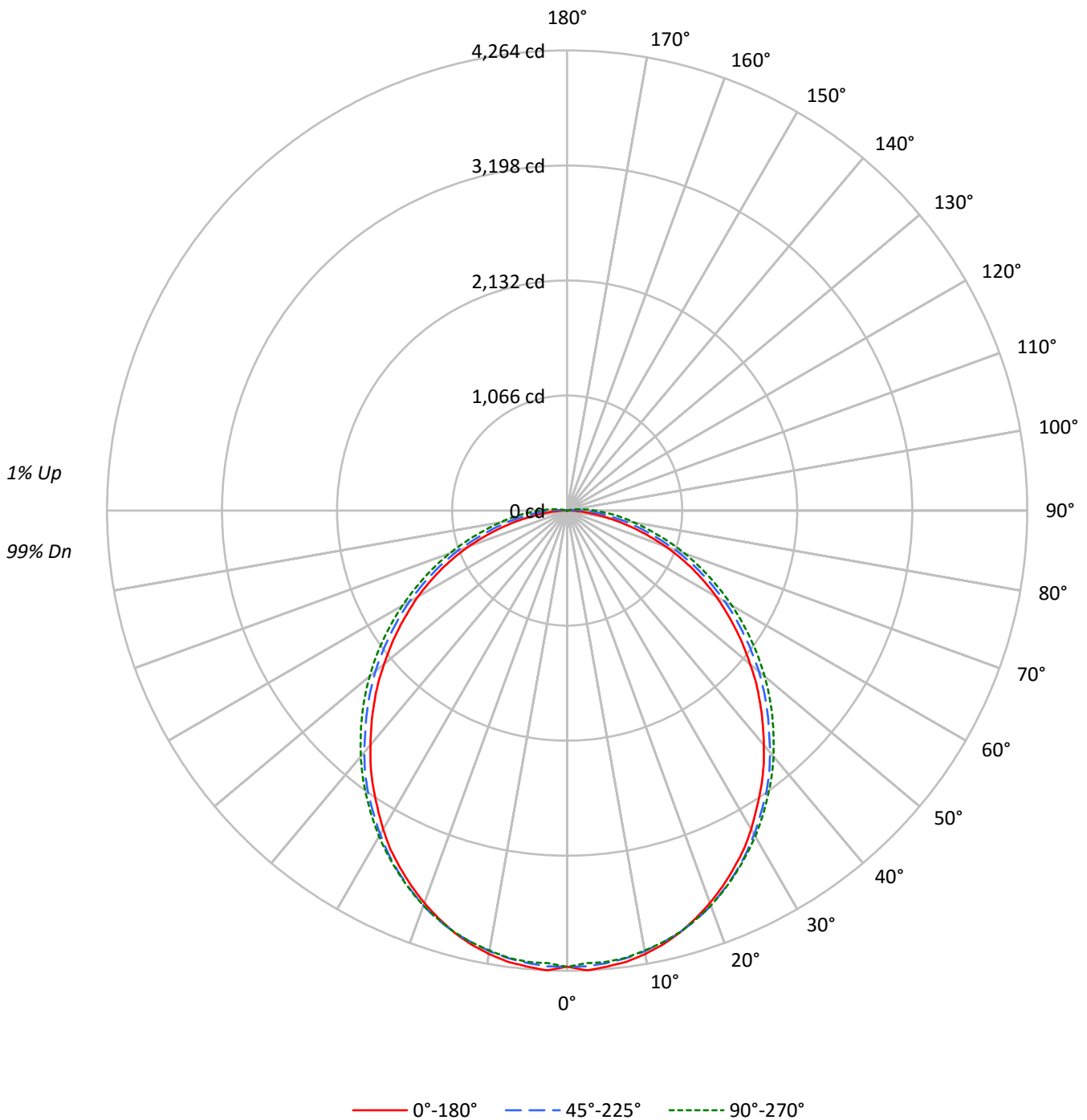
Input Watts (W): 94.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	24816	24816	24816
5°	24995	24734	24643
10°	24865	24579	24484
15°	24587	24366	24289
20°	24166	24061	23958
25°	23671	23598	23517
30°	23097	23066	23057
35°	22438	22511	22534
40°	21706	21825	21995
45°	20976	21097	21384
50°	20182	20415	20747
55°	19450	19578	20009
60°	18723	18811	19254
65°	17804	17863	18475
70°	16565	16858	17721
75°	14798	15532	16878
80°	12486	14665	16964
85°	10029	15106	19030



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	399.5	3.4
10°-20°	1136.5	9.8
20°-30°	1692.6	14.6
30°-40°	1992.1	17.2
40°-50°	2012.0	17.3
50°-60°	1783.0	15.4
60°-70°	1356.7	11.7
70°-80°	814.5	7.0
80°-90°	334.7	2.9
90°-100°	72.9	0.6
100°-110°	3.5	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°	3228.6	27.8
0°-40°	5220.6	45.0
0°-60°	9015.7	77.7
0°-90°	11521.5	99.3
90°-120°	76.4	0.7
90°-150°	76.4	0.7
90°-180°	76.0	0.7
0°-180°	11597.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4227	4227	4227	4227	4227	
5°	4242	4194	4208	4201	4197	403
15°	4046	4006	4043	4039	4043	1140
25°	3656	3627	3697	3693	3704	1684
35°	3133	3122	3211	3225	3240	1958
45°	2529	2540	2622	2658	2688	1952
55°	1904	1929	1999	2051	2077	1702
65°	1285	1303	1373	1429	1454	1270
75°	655	685	766	843	865	696
85°	151	199	306	394	423	170
90°	4	63	151	228	258	10
95°	0	4	55	110	132	0
105°	4	0	0	0	4	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°	4226.8	4226.8	4226.8	4226.8	4226.8
2.5°	4263.6	4215.7	4226.8	4219.4	4197.3
5°	4241.5	4193.6	4208.4	4201.0	4197.3
7.5°	4215.7	4167.9	4182.6	4175.2	4178.9
10°	4171.6	4123.7	4145.8	4138.4	4138.4
12.5°	4116.3	4075.8	4097.9	4090.6	4097.9
15°	4046.4	4005.9	4042.7	4039.0	4042.7
17.5°	3961.7	3924.9	3976.4	3969.1	3972.7
20°	3869.6	3832.8	3895.4	3880.7	3895.4
22.5°	3766.6	3737.1	3799.7	3788.6	3803.4
25°	3656.1	3626.6	3696.6	3692.9	3704.0
27.5°	3542.0	3516.2	3586.1	3593.5	3597.2
30°	3409.4	3391.0	3464.6	3475.7	3486.7
32.5°	3269.5	3258.5	3335.8	3354.2	3365.2
35°	3133.3	3122.2	3210.6	3225.3	3240.0
37.5°	2989.7	2982.3	3074.4	3089.1	3111.2
40°	2835.0	2838.7	2923.4	2949.2	2974.9
42.5°	2684.1	2691.4	2768.8	2805.6	2831.4
45°	2529.4	2540.5	2621.5	2658.3	2687.8
47.5°	2378.5	2389.5	2470.5	2511.0	2540.5
50°	2212.8	2238.6	2319.6	2356.4	2389.5
52.5°	2058.2	2083.9	2157.6	2205.4	2234.9
55°	1903.5	1929.3	1999.3	2050.8	2076.6
57.5°	1745.2	1782.0	1844.6	1896.2	1921.9
60°	1597.9	1620.0	1690.0	1741.5	1763.6
62.5°	1439.6	1461.7	1528.0	1590.6	1605.3
65°	1285.0	1303.4	1373.3	1428.6	1454.3
67.5°	1126.7	1148.7	1218.7	1277.6	1303.4
70°	968.3	990.4	1067.7	1134.0	1156.1
72.5°	806.3	832.1	909.4	986.7	1012.5
75°	655.4	684.8	765.8	843.1	865.2
77.5°	508.1	544.9	633.3	714.3	743.7
80°	371.9	416.1	511.8	600.1	625.9
82.5°	254.0	301.9	401.3	493.4	526.5
85°	151.0	198.8	305.6	394.0	423.4
87.5°	66.3	117.8	220.9	305.6	331.4
90°	3.7	62.6	151.0	228.3	257.7
92.5°	0.0	25.8	95.7	162.0	191.5
95°	0.0	3.7	55.2	110.5	132.5
97.5°	0.0	0.0	25.8	66.3	84.7
100°	0.0	0.0	3.7	33.1	47.9
102.5°	3.7	0.0	0.0	7.4	18.4
105°	3.7	0.0	0.0	0.0	3.7
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)