

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: P257027

Luminaire Tested: **HGL-S-FR-60L930-UNV-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257027
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-60L930-UNV-8
Description: HUGO 8 FOOT LINEAR LED LUMINAIRE WITH FROSTED LENS
Light Source: (336) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8911.2 lumens
Efficiency: N/A
Efficacy: 94.3 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

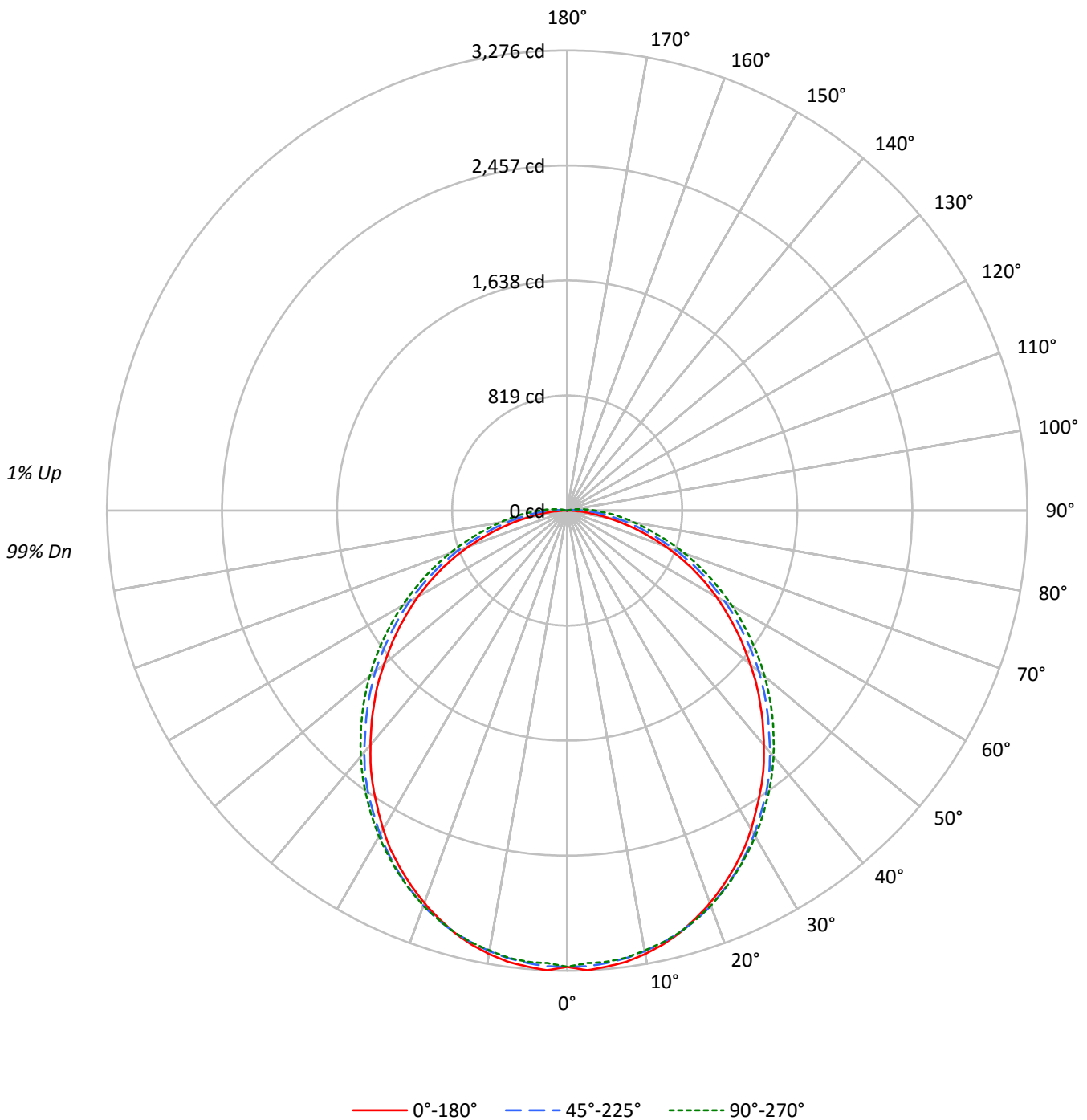
Input Watts (W): 94.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	19068	19068	19068
5°	19205	19004	18935
10°	19105	18885	18813
15°	18891	18721	18662
20°	18568	18487	18408
25°	18188	18132	18069
30°	17747	17723	17716
35°	17241	17297	17314
40°	16678	16769	16900
45°	16117	16210	16430
50°	15507	15685	15941
55°	14945	15042	15374
60°	14386	14453	14794
65°	13679	13725	14195
70°	12728	12954	13616
75°	11371	11934	12969
80°	9592	11266	13034
85°	7704	11607	14621



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.9	3.4
10°-20°	873.3	9.8
20°-30°	1300.5	14.6
30°-40°	1530.6	17.2
40°-50°	1545.9	17.3
50°-60°	1370.0	15.4
60°-70°	1042.4	11.7
70°-80°	625.8	7.0
80°-90°	257.2	2.9
90°-100°	56.0	0.6
100°-110°	2.7	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°	2480.7	27.8
0°-40°	4011.3	45.0
0°-60°	6927.2	77.7
0°-90°	8852.6	99.3
90°-120°	58.7	0.7
90°-150°	58.7	0.7
90°-180°	59.0	0.7
0°-180°	8911.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3248	3248	3248	3248	3248	
5°	3259	3222	3234	3228	3225	309
15°	3109	3078	3106	3103	3106	876
25°	2809	2786	2840	2838	2846	1294
35°	2408	2399	2467	2478	2490	1505
45°	1944	1952	2014	2042	2065	1500
55°	1463	1482	1536	1576	1596	1308
65°	987	1002	1055	1098	1117	976
75°	504	526	588	648	665	535
85°	116	153	235	303	325	130
90°	3	48	116	175	198	8
95°	0	3	42	85	102	0
105°	3	0	0	0	3	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°	3247.7	3247.7	3247.7	3247.7	3247.7
2.5°	3275.9	3239.2	3247.7	3242.0	3225.0
5°	3259.0	3222.2	3233.5	3227.9	3225.0
7.5°	3239.2	3202.4	3213.7	3208.0	3210.9
10°	3205.2	3168.4	3185.4	3179.8	3179.8
12.5°	3162.8	3131.7	3148.6	3143.0	3148.6
15°	3109.0	3077.9	3106.2	3103.4	3106.2
17.5°	3044.0	3015.7	3055.3	3049.6	3052.5
20°	2973.2	2945.0	2993.0	2981.7	2993.0
22.5°	2894.0	2871.4	2919.5	2911.0	2922.3
25°	2809.2	2786.5	2840.3	2837.5	2845.9
27.5°	2721.5	2701.7	2755.4	2761.1	2763.9
30°	2619.6	2605.5	2662.1	2670.5	2679.0
32.5°	2512.1	2503.6	2563.0	2577.2	2585.7
35°	2407.5	2399.0	2466.9	2478.2	2489.5
37.5°	2297.1	2291.5	2362.2	2373.5	2390.5
40°	2178.3	2181.1	2246.2	2266.0	2285.8
42.5°	2062.3	2068.0	2127.4	2155.7	2175.5
45°	1943.5	1952.0	2014.2	2042.5	2065.1
47.5°	1827.5	1836.0	1898.2	1929.4	1952.0
50°	1700.2	1720.0	1782.2	1810.5	1836.0
52.5°	1581.4	1601.2	1657.8	1694.6	1717.2
55°	1462.6	1482.4	1536.1	1575.7	1595.5
57.5°	1340.9	1369.2	1417.3	1456.9	1476.7
60°	1227.8	1244.7	1298.5	1338.1	1355.1
62.5°	1106.1	1123.1	1174.0	1222.1	1233.4
65°	987.3	1001.5	1055.2	1097.6	1117.4
67.5°	865.7	882.6	936.4	981.7	1001.5
70°	744.0	761.0	820.4	871.3	888.3
72.5°	619.5	639.3	698.8	758.2	778.0
75°	503.6	526.2	588.4	647.8	664.8
77.5°	390.4	418.7	486.6	548.8	571.5
80°	285.7	319.7	393.2	461.1	480.9
82.5°	195.2	232.0	308.4	379.1	404.5
85°	116.0	152.8	234.8	302.7	325.3
87.5°	50.9	90.5	169.7	234.8	254.6
90°	2.8	48.1	116.0	175.4	198.0
92.5°	0.0	19.8	73.6	124.5	147.1
95°	0.0	2.8	42.4	84.9	101.8
97.5°	0.0	0.0	19.8	50.9	65.1
100°	0.0	0.0	2.8	25.5	36.8
102.5°	2.8	0.0	0.0	5.7	14.1
105°	2.8	0.0	0.0	0.0	2.8
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)