

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: P257036

Luminaire Tested: **HGL-S-FR-50L930-UNV-12**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257036
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-50L930-UNV-12
Description: HUGO 12 FOOT LINEAR LED LUMINAIRE WITH FROSTED LENS
Light Source: (504) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11062.4 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.33
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 12' x H: 0.01')
CIE Type: Direct

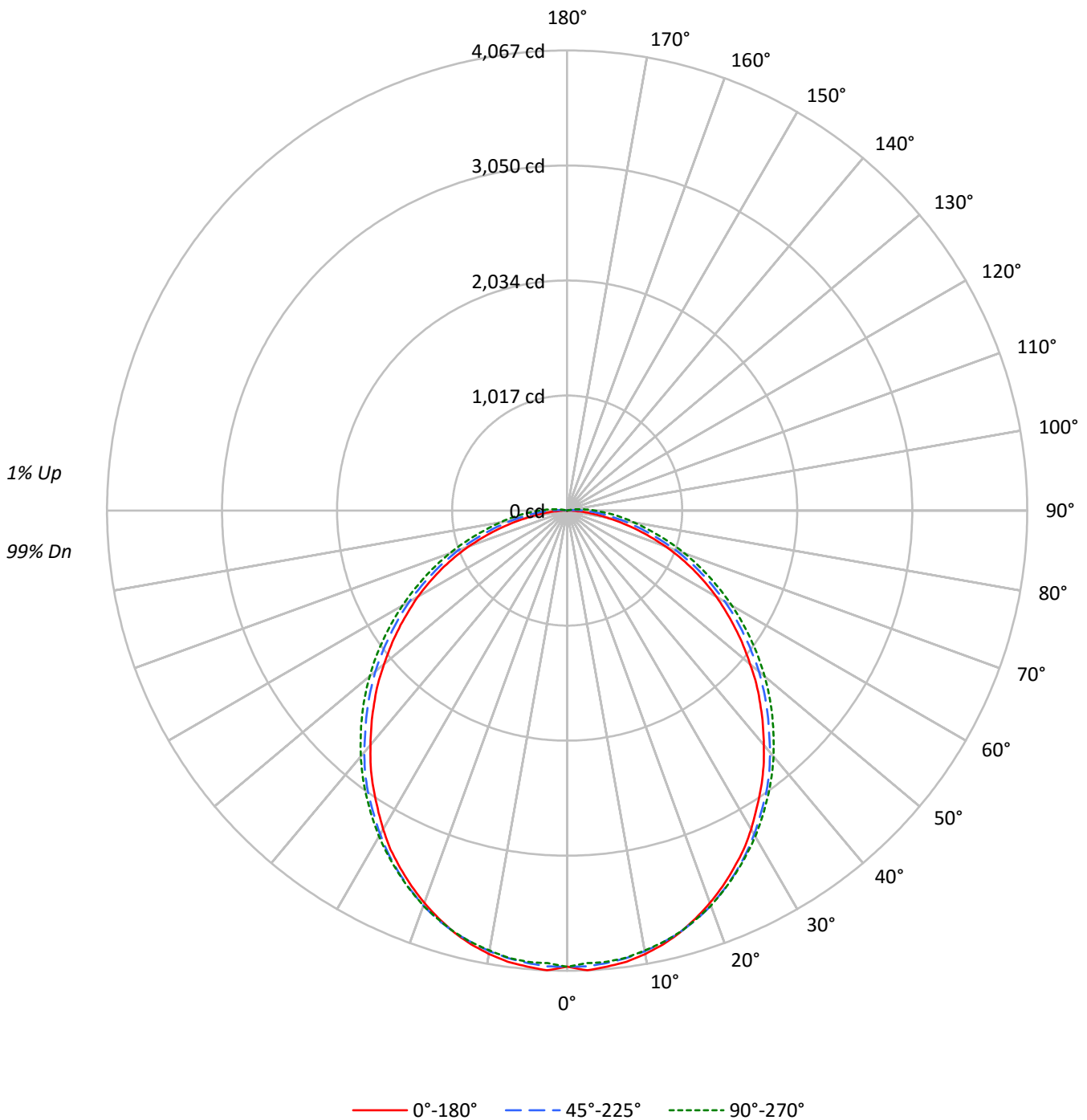
Input Watts (W): 112
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	15780	15780	15780
5°	15895	15729	15670
10°	15812	15630	15569
15°	15636	15495	15445
20°	15370	15302	15235
25°	15055	15008	14954
30°	14691	14670	14662
35°	14272	14318	14329
40°	13807	13881	13987
45°	13344	13419	13598
50°	12839	12986	13193
55°	12375	12454	12724
60°	11915	11967	12243
65°	11331	11365	11748
70°	10546	10728	11269
75°	9424	9887	10733
80°	7958	9339	10787
85°	6406	9630	12103



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	381.0	3.4
10°-20°	1084.1	9.8
20°-30°	1614.4	14.6
30°-40°	1900.1	17.2
40°-50°	1919.1	17.3
50°-60°	1700.7	15.4
60°-70°	1294.0	11.7
70°-80°	776.9	7.0
80°-90°	319.2	2.9
90°-100°	69.5	0.6
100°-110°	3.4	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°	3079.5	27.8
0°-40°	4979.6	45.0
0°-60°	8599.4	77.7
0°-90°	10989.5	99.3
90°-120°	72.8	0.7
90°-150°	72.8	0.7
90°-180°	73.0	0.7
0°-180°	11062.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4032	4032	4032	4032	4032	
5°	4046	4000	4014	4007	4004	384
15°	3860	3821	3856	3852	3856	1087
25°	3487	3459	3526	3522	3533	1606
35°	2989	2978	3062	3076	3090	1868
45°	2413	2423	2500	2536	2564	1862
55°	1816	1840	1907	1956	1981	1623
65°	1226	1243	1310	1363	1387	1211
75°	625	653	730	804	825	664
85°	144	190	292	376	404	162
90°	4	60	144	218	246	10
95°	0	4	53	105	126	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°	4031.6	4031.6	4031.6	4031.6	4031.6
2.5°	4066.8	4021.1	4031.6	4024.6	4003.5
5°	4045.7	4000.0	4014.1	4007.1	4003.5
7.5°	4021.1	3975.4	3989.5	3982.5	3986.0
10°	3979.0	3933.3	3954.4	3947.3	3947.3
12.5°	3926.3	3887.6	3908.7	3901.7	3908.7
15°	3859.6	3820.9	3856.0	3852.5	3856.0
17.5°	3778.8	3743.7	3792.8	3785.8	3789.3
20°	3691.0	3655.9	3715.6	3701.5	3715.6
22.5°	3592.6	3564.6	3624.3	3613.7	3627.8
25°	3487.3	3459.2	3525.9	3522.4	3532.9
27.5°	3378.4	3353.8	3420.6	3427.6	3431.1
30°	3252.0	3234.4	3304.7	3315.2	3325.7
32.5°	3118.5	3108.0	3181.8	3199.3	3209.9
35°	2988.6	2978.1	3062.4	3076.4	3090.5
37.5°	2851.6	2844.6	2932.4	2946.5	2967.5
40°	2704.1	2707.7	2788.4	2813.0	2837.6
42.5°	2560.2	2567.2	2640.9	2676.0	2700.6
45°	2412.7	2423.2	2500.5	2535.6	2563.7
47.5°	2268.7	2279.2	2356.5	2395.1	2423.2
50°	2110.6	2135.2	2212.5	2247.6	2279.2
52.5°	1963.1	1987.7	2058.0	2103.6	2131.7
55°	1815.6	1840.2	1906.9	1956.1	1980.7
57.5°	1664.6	1699.7	1759.5	1808.6	1833.2
60°	1524.2	1545.2	1612.0	1661.1	1682.2
62.5°	1373.1	1394.2	1457.4	1517.1	1531.2
65°	1225.6	1243.2	1309.9	1362.6	1387.2
67.5°	1074.6	1095.7	1162.4	1218.6	1243.2
70°	923.6	944.7	1018.4	1081.7	1102.7
72.5°	769.1	793.7	867.4	941.2	965.8
75°	625.1	653.2	730.5	804.2	825.3
77.5°	484.6	519.8	604.0	681.3	709.4
80°	354.7	396.8	488.2	572.4	597.0
82.5°	242.3	288.0	382.8	470.6	502.2
85°	144.0	189.6	291.5	375.8	403.9
87.5°	63.2	112.4	210.7	291.5	316.1
90°	3.5	59.7	144.0	217.7	245.8
92.5°	0.0	24.6	91.3	154.5	182.6
95°	0.0	3.5	52.7	105.4	126.4
97.5°	0.0	0.0	24.6	63.2	80.8
100°	0.0	0.0	3.5	31.6	45.7
102.5°	3.5	0.0	0.0	7.0	17.6
105°	3.5	0.0	0.0	0.0	3.5
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)