

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: P257026

Luminaire Tested: **HGL-S-FR-50L930-UNV-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257026
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-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: 7374.9 lumens
Efficiency: N/A
Efficacy: 98.9 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

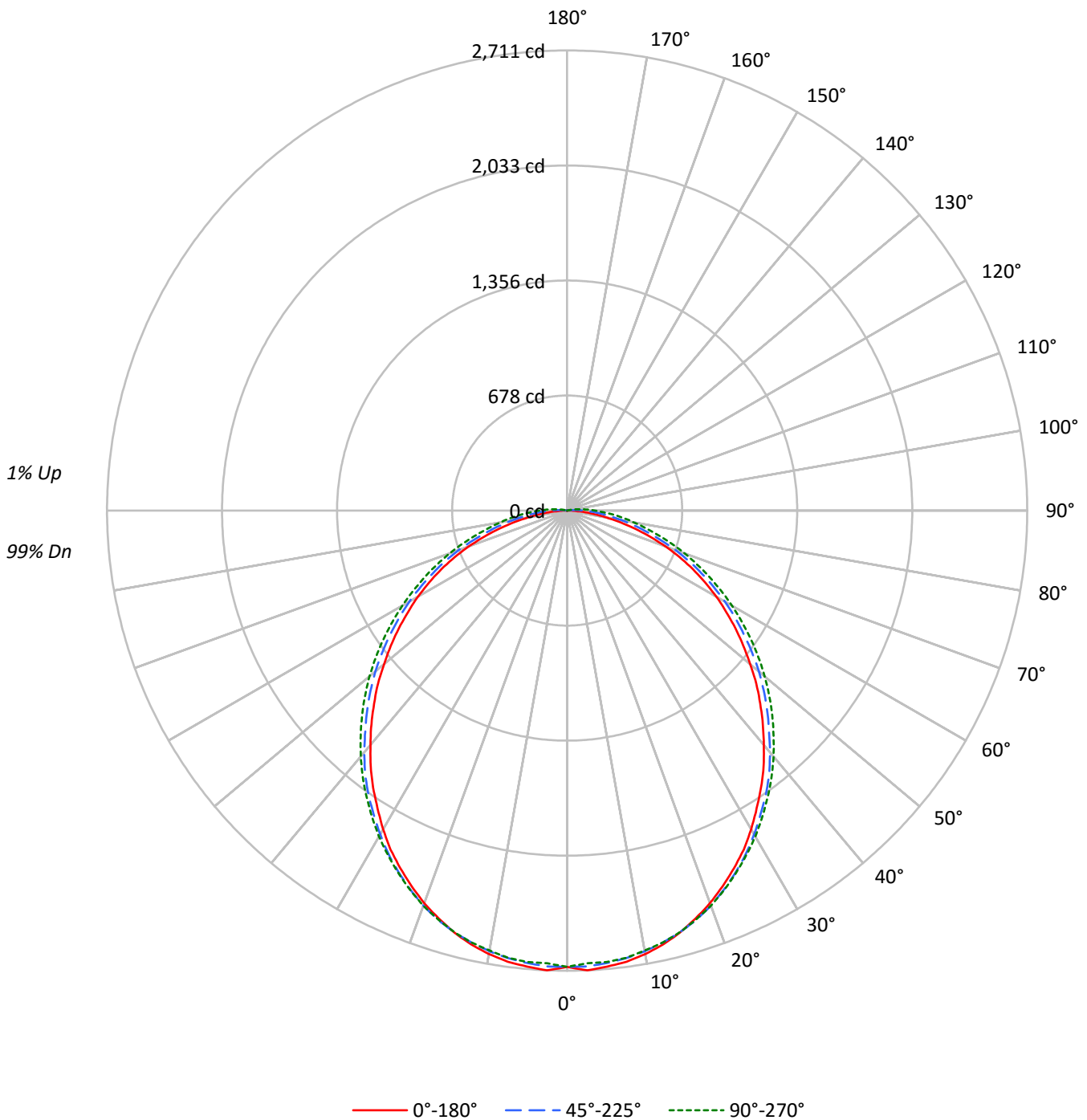
Input Watts (W): 74.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	15781	15781	15781
5°	15894	15728	15670
10°	15811	15629	15569
15°	15634	15494	15445
20°	15368	15300	15234
25°	15052	15006	14954
30°	14687	14667	14662
35°	14268	14315	14329
40°	13803	13878	13986
45°	13338	13416	13598
50°	12833	12982	13193
55°	12368	12449	12724
60°	11906	11961	12244
65°	11321	11359	11748
70°	10533	10721	11270
75°	9409	9877	10733
80°	7940	9324	10787
85°	6376	9605	12100



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.0	3.4
10°-20°	722.7	9.8
20°-30°	1076.3	14.6
30°-40°	1266.7	17.2
40°-50°	1279.4	17.3
50°-60°	1133.8	15.4
60°-70°	862.7	11.7
70°-80°	517.9	7.0
80°-90°	212.8	2.9
90°-100°	46.3	0.6
100°-110°	2.2	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°	2053.0	27.8
0°-40°	3319.7	45.0
0°-60°	5733.0	77.7
0°-90°	7326.4	99.3
90°-120°	48.5	0.7
90°-150°	48.5	0.7
90°-180°	49.0	0.7
0°-180°	7374.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2688	2688	2688	2688	2688	
5°	2697	2667	2676	2671	2669	256
15°	2573	2547	2571	2568	2571	725
25°	2325	2306	2351	2348	2355	1071
35°	1992	1985	2042	2051	2060	1245
45°	1608	1616	1667	1690	1709	1241
55°	1210	1227	1271	1304	1320	1082
65°	817	829	873	908	925	808
75°	417	436	487	536	550	442
85°	96	126	194	250	269	108
90°	2	40	96	145	164	6
95°	0	2	35	70	84	0
105°	2	0	0	0	2	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°	2687.8	2687.8	2687.8	2687.8	2687.8
2.5°	2711.2	2680.7	2687.8	2683.1	2669.0
5°	2697.1	2666.7	2676.0	2671.4	2669.0
7.5°	2680.7	2650.3	2659.7	2655.0	2657.3
10°	2652.6	2622.2	2636.2	2631.6	2631.6
12.5°	2617.5	2591.8	2605.8	2601.1	2605.8
15°	2573.0	2547.3	2570.7	2568.4	2570.7
17.5°	2519.2	2495.8	2528.6	2523.9	2526.2
20°	2460.7	2437.2	2477.0	2467.7	2477.0
22.5°	2395.1	2376.4	2416.2	2409.1	2418.5
25°	2324.9	2306.1	2350.6	2348.3	2355.3
27.5°	2252.3	2235.9	2280.4	2285.1	2287.4
30°	2168.0	2156.3	2203.1	2210.1	2217.2
32.5°	2079.0	2072.0	2121.2	2132.9	2139.9
35°	1992.4	1985.4	2041.6	2050.9	2060.3
37.5°	1901.1	1896.4	1954.9	1964.3	1978.4
40°	1802.8	1805.1	1859.0	1875.3	1891.7
42.5°	1706.8	1711.5	1760.6	1784.0	1800.4
45°	1608.4	1615.5	1667.0	1690.4	1709.1
47.5°	1512.4	1519.5	1571.0	1596.7	1615.5
50°	1407.1	1423.5	1475.0	1498.4	1519.5
52.5°	1308.8	1325.1	1372.0	1402.4	1421.1
55°	1210.4	1226.8	1271.3	1304.1	1320.5
57.5°	1109.8	1133.2	1173.0	1205.7	1222.1
60°	1016.1	1030.2	1074.6	1107.4	1121.5
62.5°	915.4	929.5	971.6	1011.4	1020.8
65°	817.1	828.8	873.3	908.4	924.8
67.5°	716.4	730.5	775.0	812.4	828.8
70°	615.7	629.8	679.0	721.1	735.2
72.5°	512.7	529.1	578.3	627.5	643.8
75°	416.7	435.5	487.0	536.1	550.2
77.5°	323.1	346.5	402.7	454.2	472.9
80°	236.5	264.6	325.4	381.6	398.0
82.5°	161.5	192.0	255.2	313.7	334.8
85°	96.0	126.4	194.3	250.5	269.2
87.5°	42.1	74.9	140.5	194.3	210.7
90°	2.3	39.8	96.0	145.2	163.9
92.5°	0.0	16.4	60.9	103.0	121.7
95°	0.0	2.3	35.1	70.2	84.3
97.5°	0.0	0.0	16.4	42.1	53.8
100°	0.0	0.0	2.3	21.1	30.4
102.5°	2.3	0.0	0.0	4.7	11.7
105°	2.3	0.0	0.0	0.0	2.3
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)