

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: P256979

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256979
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1708-204-8)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: HGL-S-BF-50L930-UNV-8
Description: HUGO 8 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH FROSTED LENS
Light Source: (336) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6271.2 lumens
Efficiency: N/A
Efficacy: 84.1 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.25 / 1.28
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 8' x H: 0.01')
CIE Type: Direct

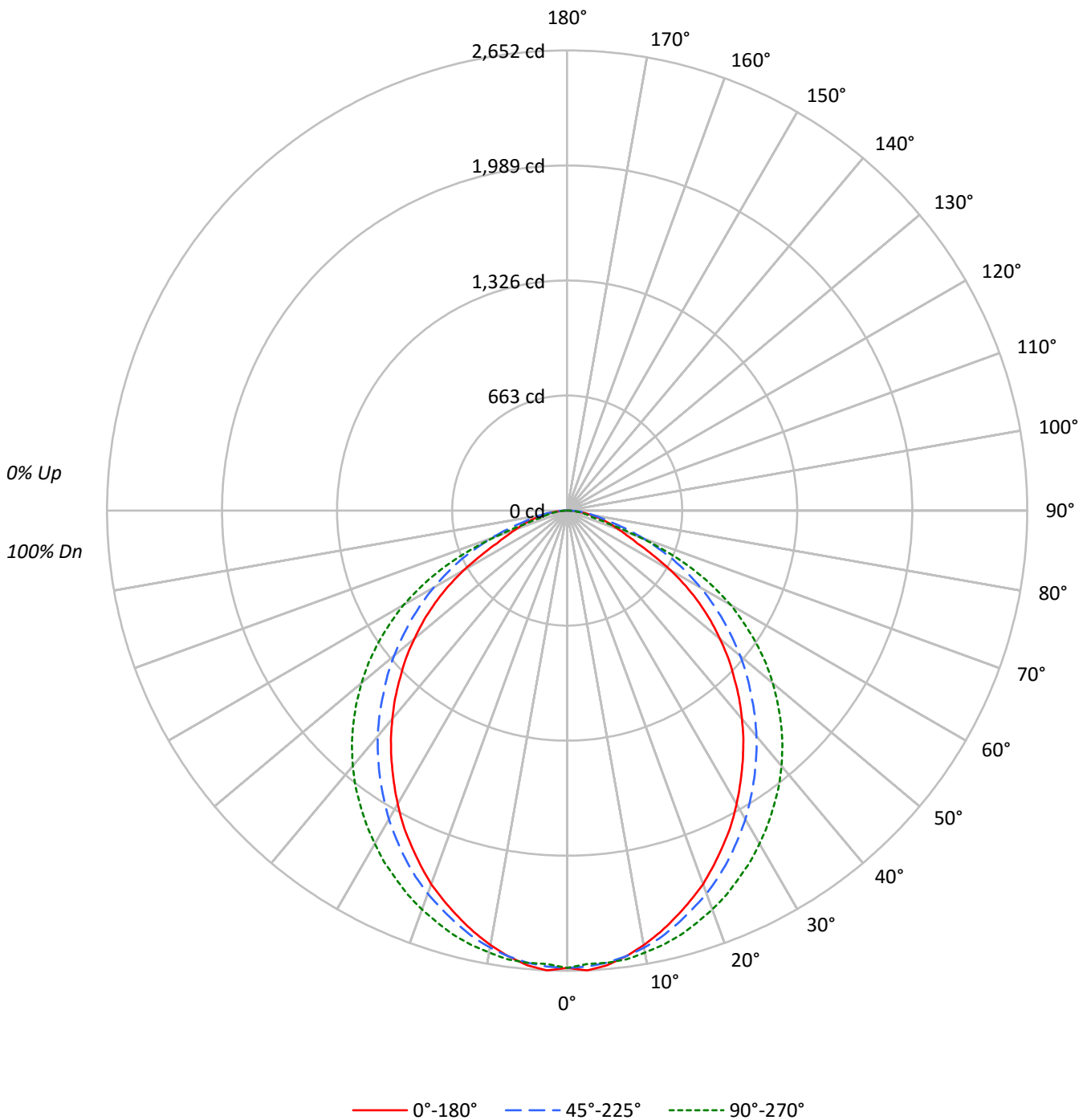
Input Watts (W): 74.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	102	102	100
1	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86
2	101	93	87	81	98	91	85	80	88	83	78	84	80	77	81	78	75	73
3	92	82	75	68	90	81	74	68	78	72	67	75	70	66	73	68	64	62
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	54	50	59	53	49	47
6	72	59	51	45	70	59	50	45	57	50	44	55	49	44	54	48	43	41
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39	37
8	63	49	41	36	61	49	41	35	47	40	35	46	40	35	45	39	35	33
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15473	15473	15473
5°	15502	15374	15359
10°	15158	15163	15304
15°	14729	14844	15206
20°	14305	14507	15043
25°	13776	14110	14850
30°	13229	13680	14665
35°	12628	13182	14443
40°	11994	12675	14205
45°	11280	12060	13874
50°	10478	11458	13434
55°	9506	10726	12802
60°	8082	9895	11879
65°	6192	8846	10182
70°	5360	7363	6590
75°	4936	5468	3080
80°	4405	4384	2634
85°	3713	3722	1964



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.7	3.9
10°-20°	694.6	11.1
20°-30°	1018.8	16.2
30°-40°	1181.5	18.8
40°-50°	1169.7	18.7
50°-60°	987.0	15.7
60°-70°	639.7	10.2
70°-80°	258.8	4.1
80°-90°	71.8	1.1
90°-100°	1.7	0.0
100°-110°	0.0	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°	1961.0	31.3
0°-40°	3142.5	50.1
0°-60°	5299.3	84.5
0°-90°	6269.5	100.0
90°-120°	1.7	0.0
90°-150°	1.7	0.0
90°-180°	2.0	0.0
0°-180°	6271.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2635	2635	2635	2635	2635	
5°	2630	2604	2616	2614	2616	248
15°	2424	2412	2463	2507	2531	683
25°	2128	2128	2210	2278	2339	980
35°	1763	1776	1880	1980	2077	1102
45°	1360	1389	1499	1625	1744	1050
55°	930	979	1095	1224	1329	827
65°	447	517	680	763	802	464
75°	219	228	270	221	158	232
85°	56	66	75	61	44	61
90°	0	10	17	12	0	3
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
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°	2635.4	2635.4	2635.4	2635.4	2635.4
2.5°	2652.4	2623.2	2630.5	2625.6	2615.9
5°	2630.5	2603.8	2615.9	2613.5	2615.9
7.5°	2591.6	2569.8	2591.6	2598.9	2608.6
10°	2543.1	2526.1	2557.6	2574.6	2586.8
12.5°	2487.2	2472.6	2516.3	2543.1	2562.5
15°	2424.0	2411.9	2462.9	2506.6	2530.9
17.5°	2358.5	2348.7	2407.0	2462.9	2489.6
20°	2290.5	2280.7	2348.7	2404.6	2445.9
22.5°	2210.3	2205.4	2283.2	2341.5	2397.3
25°	2127.7	2127.7	2210.3	2278.3	2339.0
27.5°	2045.1	2045.1	2132.6	2207.9	2283.2
30°	1952.8	1960.1	2054.8	2137.4	2217.6
32.5°	1858.1	1870.3	1967.4	2059.7	2149.6
35°	1763.4	1775.5	1880.0	1979.6	2076.7
37.5°	1668.7	1685.7	1790.1	1894.5	2003.8
40°	1566.6	1588.5	1697.8	1807.1	1921.3
42.5°	1467.1	1491.3	1600.6	1717.2	1836.2
45°	1360.2	1389.3	1498.6	1624.9	1743.9
47.5°	1260.6	1289.7	1403.9	1527.8	1646.8
50°	1148.9	1185.3	1301.9	1430.6	1547.2
52.5°	1042.0	1083.3	1197.4	1328.6	1442.8
55°	930.3	978.8	1095.4	1224.2	1328.6
57.5°	811.3	869.5	991.0	1114.9	1209.6
60°	689.8	760.2	889.0	1003.1	1088.1
62.5°	558.6	641.2	782.1	889.0	949.7
65°	446.9	517.4	680.1	762.7	801.5
67.5°	371.6	412.9	568.4	629.1	629.1
70°	313.3	335.2	466.3	480.9	429.9
72.5°	264.8	276.9	364.3	327.9	245.3
75°	218.6	228.3	269.6	221.0	157.9
77.5°	174.9	182.2	204.0	167.6	123.9
80°	131.2	140.9	153.0	128.7	97.2
82.5°	92.3	99.6	114.2	94.7	70.4
85°	55.9	65.6	75.3	60.7	43.7
87.5°	24.3	31.6	41.3	31.6	19.4
90°	0.0	9.7	17.0	12.1	0.0
92.5°	0.0	0.0	2.4	2.4	0.0
95°	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0
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)