

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: P257002

Luminaire Tested: **HGL-S-BF-30L930-UNV-12**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P257002  
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-30L930-UNV-12  
Description: HUGO 12 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH FROSTED LENS  
Light Source: (504) 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5951.5 lumens  
Efficiency: N/A  
Efficacy: 91.4 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.25 / 1.28  
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 12' x H: 0.01')  
CIE Type: Direct

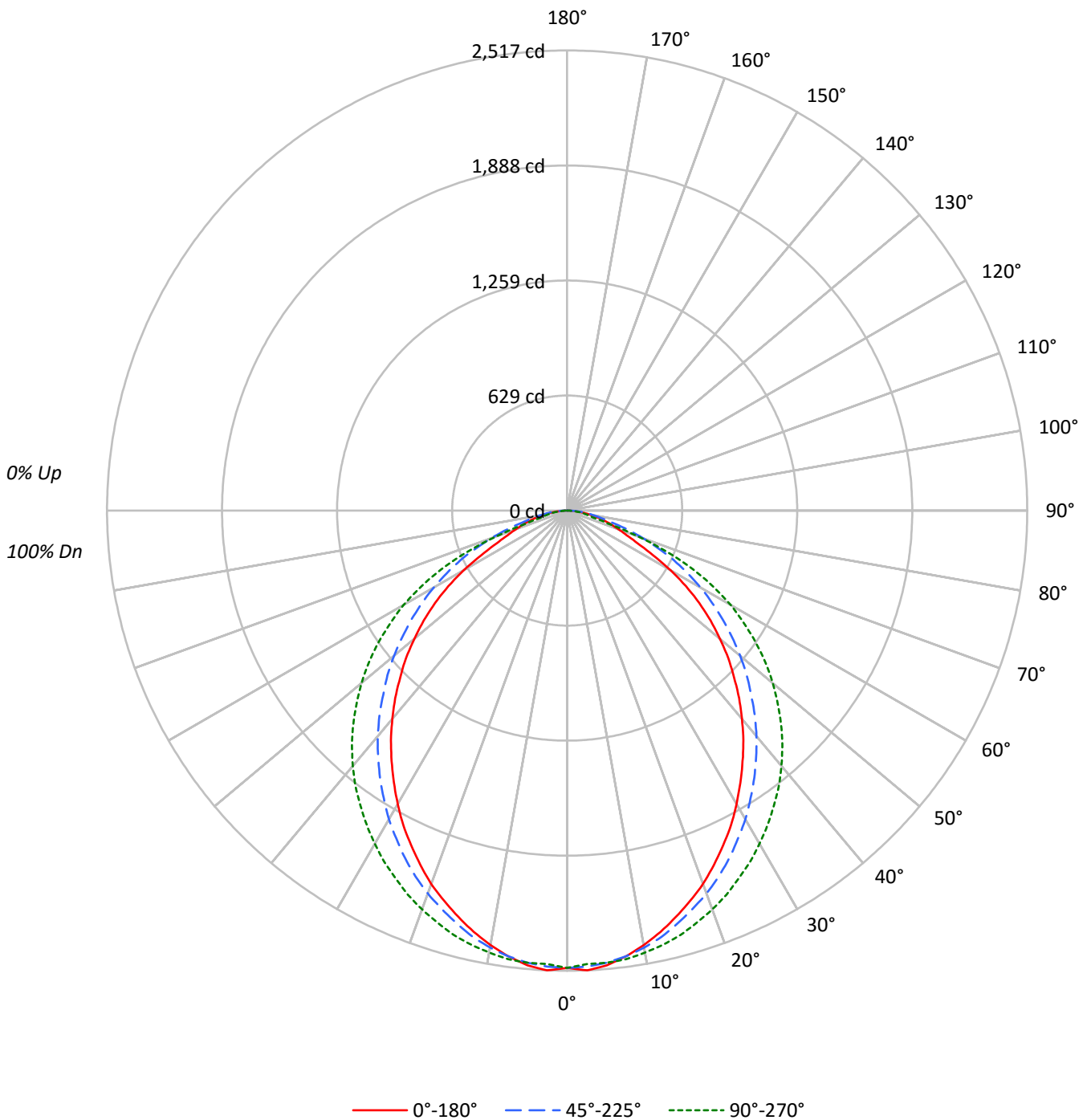
Input Watts (W): 65.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	9789	9789	9789
5°	9808	9727	9717
10°	9591	9594	9683
15°	9320	9392	9621
20°	9051	9179	9517
25°	8717	8928	9396
30°	8372	8657	9278
35°	7992	8341	9138
40°	7592	8021	8987
45°	7139	7632	8778
50°	6633	7252	8499
55°	6017	6789	8100
60°	5117	6264	7516
65°	3921	5600	6442
70°	3396	4662	4169
75°	3128	3464	1948
80°	2793	2778	1666
85°	2358	2362	1244



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	235.1	3.9
10°-20°	659.1	11.1
20°-30°	966.8	16.2
30°-40°	1121.2	18.8
40°-50°	1110.1	18.7
50°-60°	936.7	15.7
60°-70°	607.1	10.2
70°-80°	245.6	4.1
80°-90°	68.1	1.1
90°-100°	1.6	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°	1861.0	31.3
0°-40°	2982.3	50.1
0°-60°	5029.1	84.5
0°-90°	5949.9	100.0
90°-120°	1.6	0.0
90°-150°	1.6	0.0
90°-180°	2.0	0.0
0°-180°	5951.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2501	2501	2501	2501	2501	
5°	2496	2471	2482	2480	2482	236
15°	2300	2289	2337	2379	2402	648
25°	2019	2019	2098	2162	2220	930
35°	1674	1685	1784	1879	1971	1046
45°	1291	1318	1422	1542	1655	996
55°	883	929	1040	1162	1261	784
65°	424	491	645	724	761	440
75°	208	217	256	210	150	220
85°	53	62	72	58	42	58
90°	0	9	16	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°	2501.0	2501.0	2501.0	2501.0	2501.0
2.5°	2517.1	2489.5	2496.4	2491.8	2482.5
5°	2496.4	2471.0	2482.5	2480.2	2482.5
7.5°	2459.5	2438.7	2459.5	2466.4	2475.6
10°	2413.4	2397.3	2427.2	2443.4	2454.9
12.5°	2360.4	2346.5	2388.0	2413.4	2431.8
15°	2300.4	2288.9	2337.3	2378.8	2401.9
17.5°	2238.2	2229.0	2284.3	2337.3	2362.7
20°	2173.7	2164.4	2229.0	2282.0	2321.2
22.5°	2097.6	2093.0	2166.8	2222.1	2275.1
25°	2019.2	2019.2	2097.6	2162.1	2219.8
27.5°	1940.9	1940.9	2023.8	2095.3	2166.8
30°	1853.3	1860.2	1950.1	2028.4	2104.5
32.5°	1763.4	1774.9	1867.1	1954.7	2040.0
35°	1673.5	1685.0	1784.1	1878.6	1970.8
37.5°	1583.6	1599.7	1698.8	1797.9	1901.7
40°	1486.8	1507.5	1611.2	1715.0	1823.3
42.5°	1392.3	1415.3	1519.0	1629.7	1742.6
45°	1290.8	1318.5	1422.2	1542.1	1655.0
47.5°	1196.3	1224.0	1332.3	1449.9	1562.8
50°	1090.3	1124.9	1235.5	1357.7	1468.3
52.5°	988.9	1028.1	1136.4	1260.9	1369.2
55°	882.8	928.9	1039.6	1161.7	1260.9
57.5°	769.9	825.2	940.5	1058.0	1147.9
60°	654.6	721.5	843.7	952.0	1032.7
62.5°	530.2	608.5	742.2	843.7	901.3
65°	424.1	491.0	645.4	723.8	760.7
67.5°	352.7	391.9	539.4	597.0	597.0
70°	297.4	318.1	442.6	456.4	408.0
72.5°	251.3	262.8	345.8	311.2	232.8
75°	207.5	216.7	255.9	209.8	149.8
77.5°	166.0	172.9	193.6	159.0	117.6
80°	124.5	133.7	145.2	122.2	92.2
82.5°	87.6	94.5	108.3	89.9	66.8
85°	53.0	62.2	71.5	57.6	41.5
87.5°	23.1	30.0	39.2	30.0	18.4
90°	0.0	9.2	16.1	11.5	0.0
92.5°	0.0	0.0	2.3	2.3	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)