

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: P257009

Luminaire Tested: **HGL-S-BF-50L940-UNV-12**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P257009  
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-50L940-UNV-12  
Description: HUGO 12 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH FROSTED LENS  
Light Source: (504) 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9729.3 lumens  
Efficiency: N/A  
Efficacy: 86.9 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

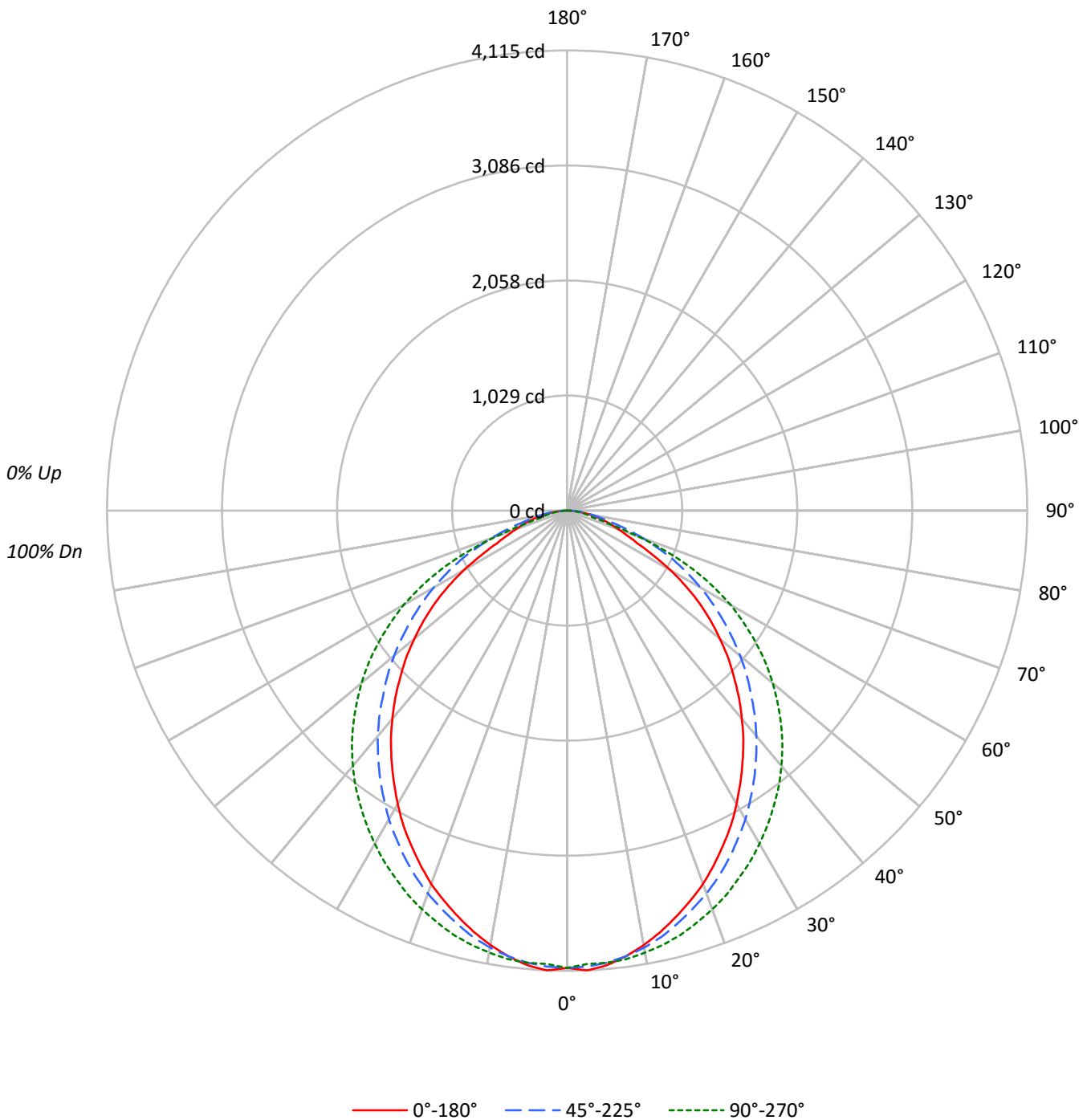
Input Watts (W): 112  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	16003	16003	16003
5°	16033	15902	15885
10°	15679	15684	15829
15°	15236	15354	15727
20°	14797	15006	15559
25°	14251	14596	15359
30°	13687	14152	15167
35°	13065	13636	14939
40°	12410	13113	14692
45°	11671	12478	14350
50°	10843	11855	13894
55°	9837	11099	13241
60°	8366	10239	12287
65°	6411	9155	10531
70°	5550	7621	6816
75°	5112	5662	3185
80°	4565	4541	2723
85°	3857	3859	2032



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	384.3	3.9
10°-20°	1077.6	11.1
20°-30°	1580.6	16.2
30°-40°	1833.0	18.8
40°-50°	1814.8	18.7
50°-60°	1531.3	15.7
60°-70°	992.4	10.2
70°-80°	401.5	4.1
80°-90°	111.4	1.1
90°-100°	2.6	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°	3042.4	31.3
0°-40°	4875.4	50.1
0°-60°	8221.5	84.5
0°-90°	9726.8	100.0
90°-120°	2.6	0.0
90°-150°	2.6	0.0
90°-180°	3.0	0.0
0°-180°	9729.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4089	4089	4089	4089	4089	
5°	4081	4040	4058	4055	4058	385
15°	3761	3742	3821	3889	3926	1059
25°	3301	3301	3429	3535	3629	1520
35°	2736	2755	2917	3071	3222	1710
45°	2110	2156	2325	2521	2706	1629
55°	1443	1519	1700	1899	2061	1282
65°	693	803	1055	1183	1244	720
75°	339	354	418	343	245	360
85°	87	102	117	94	68	95
90°	0	15	26	19	0	5
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°	4088.6	4088.6	4088.6	4088.6	4088.6
2.5°	4115.0	4069.7	4081.0	4073.5	4058.4
5°	4081.0	4039.6	4058.4	4054.7	4058.4
7.5°	4020.7	3986.8	4020.7	4032.1	4047.1
10°	3945.4	3919.0	3968.0	3994.4	4013.2
12.5°	3858.7	3836.1	3903.9	3945.4	3975.5
15°	3760.7	3741.9	3821.0	3888.9	3926.5
17.5°	3659.0	3643.9	3734.4	3821.0	3862.5
20°	3553.5	3538.4	3643.9	3730.6	3794.6
22.5°	3429.1	3421.6	3542.2	3632.6	3719.3
25°	3301.0	3301.0	3429.1	3534.6	3628.8
27.5°	3172.9	3172.9	3308.5	3425.4	3542.2
30°	3029.7	3041.0	3188.0	3316.1	3440.4
32.5°	2882.7	2901.6	3052.3	3195.5	3334.9
35°	2735.8	2754.6	2916.6	3071.1	3221.9
37.5°	2588.8	2615.2	2777.2	2939.3	3108.8
40°	2430.5	2464.4	2634.0	2803.6	2980.7
42.5°	2276.0	2313.7	2483.3	2664.2	2848.8
45°	2110.2	2155.5	2325.0	2521.0	2705.6
47.5°	1955.7	2001.0	2178.1	2370.2	2554.9
50°	1782.4	1838.9	2019.8	2219.5	2400.4
52.5°	1616.6	1680.6	1857.8	2061.2	2238.4
55°	1443.2	1518.6	1699.5	1899.2	2061.2
57.5°	1258.6	1349.0	1537.5	1729.6	1876.6
60°	1070.2	1179.5	1379.2	1556.3	1688.2
62.5°	866.7	994.8	1213.4	1379.2	1473.4
65°	693.4	802.6	1055.1	1183.2	1243.5
67.5°	576.5	640.6	881.8	976.0	976.0
70°	486.1	520.0	723.5	746.1	667.0
72.5°	410.7	429.6	565.2	508.7	380.6
75°	339.1	354.2	418.3	342.9	244.9
77.5°	271.3	282.6	316.5	260.0	192.2
80°	203.5	218.6	237.4	199.7	150.7
82.5°	143.2	154.5	177.1	147.0	109.3
85°	86.7	101.7	116.8	94.2	67.8
87.5°	37.7	49.0	64.1	49.0	30.1
90°	0.0	15.1	26.4	18.8	0.0
92.5°	0.0	0.0	3.8	3.8	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)