

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: P257004

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P257004  
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-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: 9406.8 lumens  
Efficiency: N/A  
Efficacy: 84.0 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

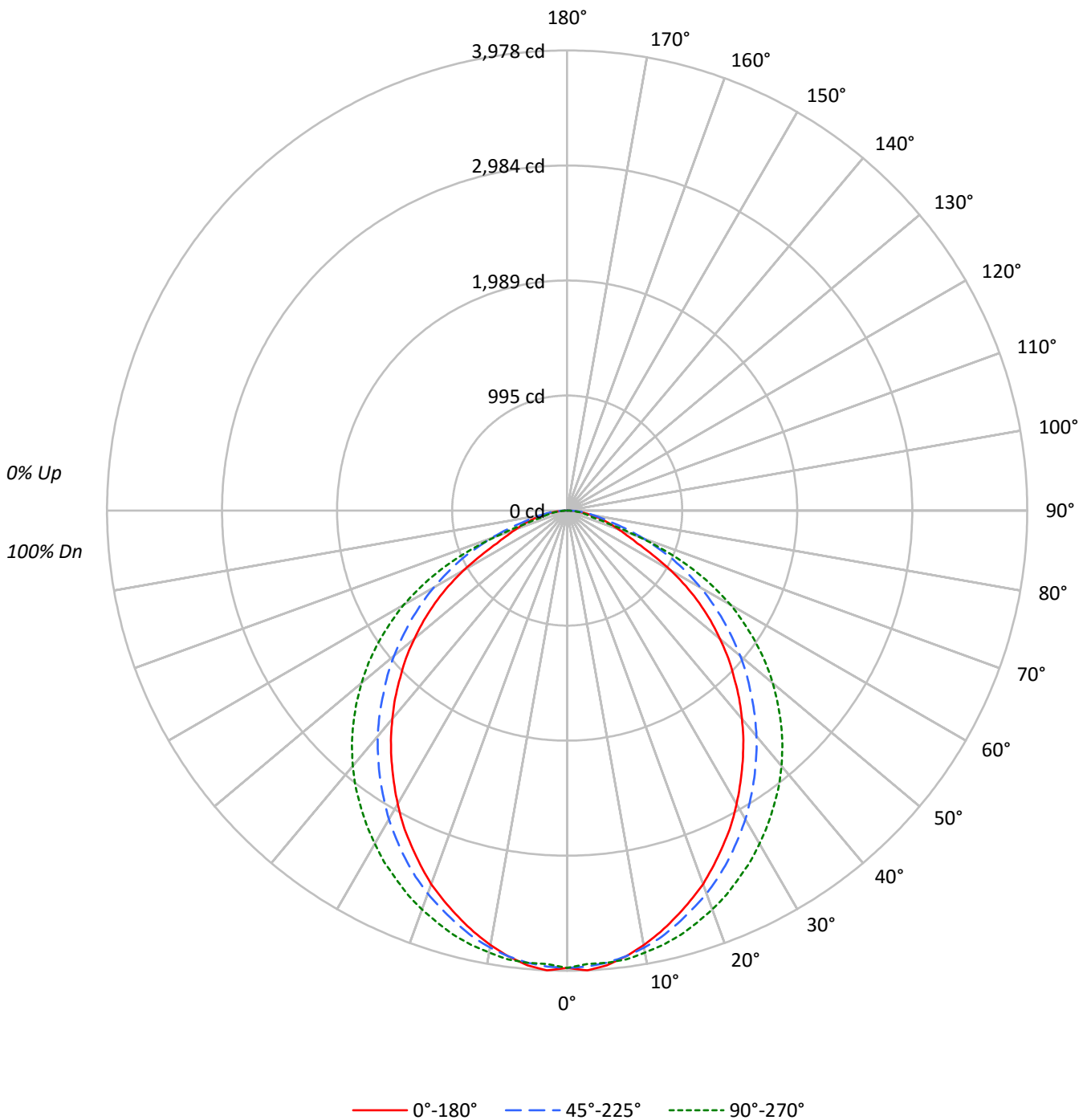
Input Watts (W): 112  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					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	15375	15359
10°	15159	15164	15304
15°	14731	14845	15206
20°	14307	14509	15043
25°	13778	14112	14850
30°	13233	13683	14665
35°	12632	13184	14444
40°	11999	12678	14205
45°	11285	12064	13875
50°	10483	11462	13434
55°	9511	10731	12802
60°	8088	9900	11879
65°	6198	8851	10182
70°	5366	7369	6590
75°	4943	5473	3080
80°	4413	4390	2633
85°	3728	3730	1966



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	371.5	3.9
10°-20°	1041.8	11.1
20°-30°	1528.2	16.2
30°-40°	1772.2	18.8
40°-50°	1754.6	18.7
50°-60°	1480.6	15.7
60°-70°	959.5	10.2
70°-80°	388.2	4.1
80°-90°	107.7	1.1
90°-100°	2.5	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°	2941.6	31.3
0°-40°	4713.8	50.1
0°-60°	7949.0	84.5
0°-90°	9404.3	100.0
90°-120°	2.5	0.0
90°-150°	2.5	0.0
90°-180°	2.0	0.0
0°-180°	9406.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3953	3953	3953	3953	3953	
5°	3946	3906	3924	3920	3924	372
15°	3636	3618	3694	3760	3796	1024
25°	3192	3192	3315	3418	3508	1469
35°	2645	2663	2820	2969	3115	1654
45°	2040	2084	2248	2437	2616	1575
55°	1395	1468	1643	1836	1993	1240
65°	670	776	1020	1144	1202	696
75°	328	342	404	332	237	348
85°	84	98	113	91	66	92
90°	0	15	26	18	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



TEST NUMBER: P257004

CATALOG NUMBER: HGL-S-BF-50L930-UNV-12

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3953.0	3953.0	3953.0	3953.0	3953.0
2.5°	3978.5	3934.8	3945.7	3938.5	3923.9
5°	3945.7	3905.7	3923.9	3920.2	3923.9
7.5°	3887.5	3854.7	3887.5	3898.4	3913.0
10°	3814.6	3789.1	3836.4	3862.0	3880.2
12.5°	3730.8	3708.9	3774.5	3814.6	3843.7
15°	3636.1	3617.8	3694.4	3759.9	3796.4
17.5°	3537.7	3523.1	3610.6	3694.4	3734.4
20°	3435.7	3421.1	3523.1	3606.9	3668.9
22.5°	3315.4	3308.2	3424.7	3512.2	3596.0
25°	3191.6	3191.6	3315.4	3417.5	3508.5
27.5°	3067.7	3067.7	3198.9	3311.8	3424.7
30°	2929.3	2940.2	3082.3	3206.1	3326.4
32.5°	2787.2	2805.4	2951.1	3089.6	3224.4
35°	2645.1	2663.3	2820.0	2969.3	3115.1
37.5°	2503.0	2528.5	2685.1	2841.8	3005.8
40°	2350.0	2382.8	2546.7	2710.7	2881.9
42.5°	2200.6	2237.0	2401.0	2575.8	2754.4
45°	2040.3	2084.0	2247.9	2437.4	2615.9
47.5°	1890.9	1934.6	2105.9	2291.7	2470.2
50°	1723.3	1778.0	1952.8	2145.9	2320.8
52.5°	1563.0	1624.9	1796.2	1992.9	2164.1
55°	1395.4	1468.3	1643.2	1836.2	1992.9
57.5°	1216.9	1304.3	1486.5	1672.3	1814.4
60°	1034.7	1140.4	1333.5	1504.7	1632.2
62.5°	838.0	961.8	1173.2	1333.5	1424.5
65°	670.4	776.0	1020.1	1144.0	1202.3
67.5°	557.4	619.4	852.5	943.6	943.6
70°	470.0	502.8	699.5	721.4	644.9
72.5°	397.1	415.3	546.5	491.9	368.0
75°	327.9	342.5	404.4	331.5	236.8
77.5°	262.3	273.3	306.0	251.4	185.8
80°	196.7	211.3	229.5	193.1	145.7
82.5°	138.4	149.4	171.2	142.1	105.7
85°	83.8	98.4	112.9	91.1	65.6
87.5°	36.4	47.4	61.9	47.4	29.1
90°	0.0	14.6	25.5	18.2	0.0
92.5°	0.0	0.0	3.6	3.6	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



TEST NUMBER: P257004

CATALOG NUMBER: HGL-S-BF-50L930-UNV-12

**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)