

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: P256981

Luminaire Tested: **HGL-S-BF-80L930-UNV-8**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P256981  
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-80L930-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: 10241.6 lumens  
Efficiency: N/A  
Efficacy: 72.6 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

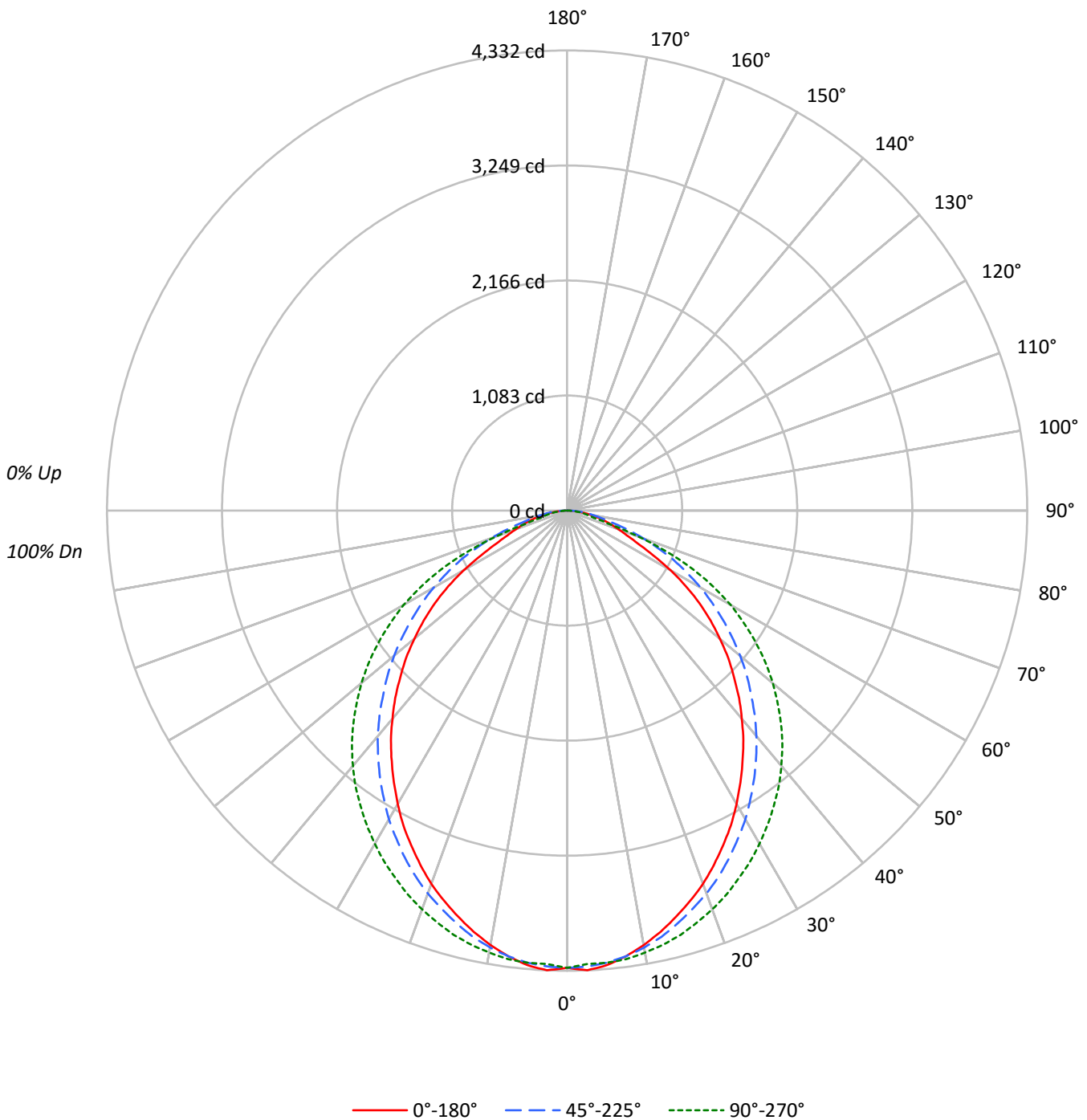
Input Watts (W): 141  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P256981

CATALOG NUMBER: HGL-S-BF-80L930-UNV-8

### Luminous Intensity Polar Plot





TEST NUMBER: P256981

CATALOG NUMBER: HGL-S-BF-80L930-UNV-8

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

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	25269	25269	25269
5°	25316	25109	25082
10°	24754	24763	24993
15°	24054	24242	24833
20°	23361	23692	24567
25°	22497	23043	24252
30°	21606	22341	23949
35°	20623	21527	23588
40°	19589	20700	23198
45°	18421	19696	22659
50°	17112	18712	21939
55°	15523	17518	20907
60°	13199	16159	19401
65°	10113	14447	16629
70°	8754	12025	10762
75°	8061	8930	5029
80°	7191	7160	4301
85°	6057	6080	3209



TEST NUMBER: P256981

CATALOG NUMBER: HGL-S-BF-80L930-UNV-8

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	404.5	3.9
10°-20°	1134.3	11.1
20°-30°	1663.8	16.2
30°-40°	1929.5	18.8
40°-50°	1910.3	18.7
50°-60°	1612.0	15.7
60°-70°	1044.7	10.2
70°-80°	422.6	4.1
80°-90°	117.3	1.1
90°-100°	2.7	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°	3202.6	31.3
0°-40°	5132.1	50.1
0°-60°	8654.3	84.5
0°-90°	10238.9	100.0
90°-120°	2.7	0.0
90°-150°	2.7	0.0
90°-180°	3.0	0.0
0°-180°	10241.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4304	4304	4304	4304	4304	
5°	4296	4252	4272	4268	4272	405
15°	3959	3939	4022	4094	4133	1115
25°	3475	3475	3610	3721	3820	1600
35°	2880	2900	3070	3233	3392	1800
45°	2221	2269	2447	2654	2848	1715
55°	1519	1599	1789	1999	2170	1350
65°	730	845	1111	1246	1309	757
75°	357	373	440	361	258	379
85°	91	107	123	99	71	100
90°	0	16	28	20	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: P256981

CATALOG NUMBER: HGL-S-BF-80L930-UNV-8

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4303.8	4303.8	4303.8	4303.8	4303.8
2.5°	4331.6	4284.0	4295.9	4288.0	4272.1
5°	4295.9	4252.3	4272.1	4268.1	4272.1
7.5°	4232.4	4196.7	4232.4	4244.3	4260.2
10°	4153.1	4125.3	4176.9	4204.7	4224.5
12.5°	4061.9	4038.1	4109.5	4153.1	4184.8
15°	3958.7	3938.9	4022.2	4093.6	4133.3
17.5°	3851.6	3835.8	3931.0	4022.2	4065.8
20°	3740.6	3724.7	3835.8	3927.0	3994.4
22.5°	3609.7	3601.7	3728.7	3823.9	3915.1
25°	3474.8	3474.8	3609.7	3720.7	3819.9
27.5°	3339.9	3339.9	3482.7	3605.7	3728.7
30°	3189.2	3201.1	3355.8	3490.7	3621.6
32.5°	3034.5	3054.3	3213.0	3363.7	3510.5
35°	2879.8	2899.6	3070.2	3232.8	3391.5
37.5°	2725.1	2752.9	2923.4	3094.0	3272.5
40°	2558.5	2594.2	2772.7	2951.2	3137.6
42.5°	2395.9	2435.5	2614.0	2804.4	2998.8
45°	2221.3	2268.9	2447.4	2653.7	2848.1
47.5°	2058.7	2106.3	2292.7	2495.0	2689.4
50°	1876.2	1935.7	2126.1	2336.4	2526.8
52.5°	1701.7	1769.1	1955.6	2169.8	2356.2
55°	1519.2	1598.6	1789.0	1999.2	2169.8
57.5°	1324.9	1420.1	1618.4	1820.7	1975.4
60°	1126.5	1241.6	1451.8	1638.2	1777.1
62.5°	912.3	1047.2	1277.3	1451.8	1551.0
65°	729.9	844.9	1110.7	1245.5	1309.0
67.5°	606.9	674.3	928.2	1027.4	1027.4
70°	511.7	547.4	761.6	785.4	702.1
72.5°	432.4	452.2	595.0	535.5	400.6
75°	357.0	372.9	440.3	361.0	257.8
77.5°	285.6	297.5	333.2	273.7	202.3
80°	214.2	230.1	249.9	210.2	158.7
82.5°	150.7	162.6	186.4	154.7	115.0
85°	91.2	107.1	123.0	99.2	71.4
87.5°	39.7	51.6	67.4	51.6	31.7
90°	0.0	15.9	27.8	19.8	0.0
92.5°	0.0	0.0	4.0	4.0	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: P256981

CATALOG NUMBER: HGL-S-BF-80L930-UNV-8

**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)