

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: P256968

Luminaire Tested: **HGL-S-BF-40L835-UNV-8**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P256968  
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-40L835-UNV-8  
Description: HUGO 8 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH FROSTED LENS  
Light Source: (336) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6766.2 lumens  
Efficiency: N/A  
Efficacy: 116.7 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

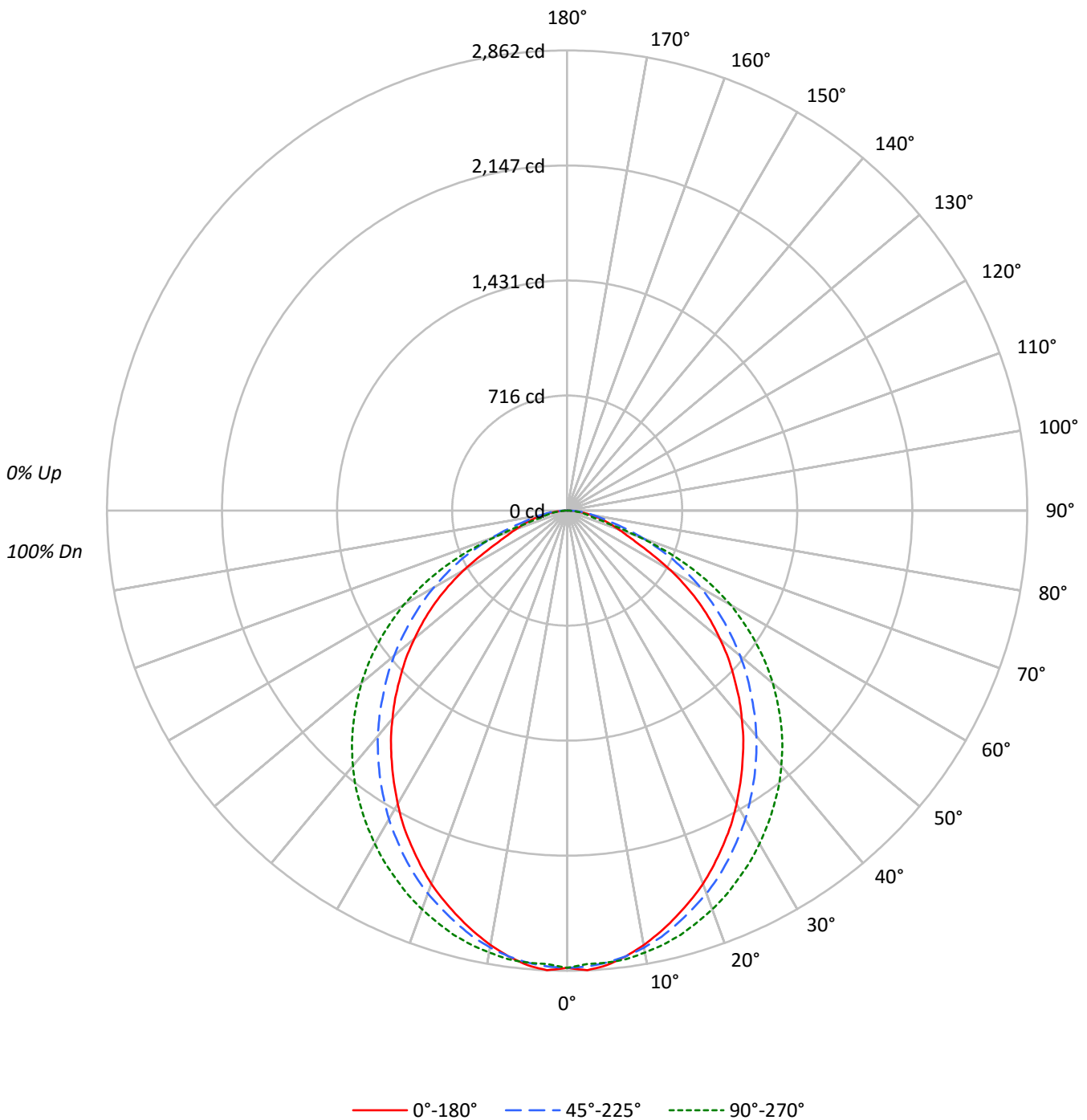
Input Watts (W): 58  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	16694	16694	16694
5°	16725	16588	16571
10°	16354	16360	16512
15°	15892	16016	16406
20°	15433	15652	16231
25°	14863	15224	16022
30°	14274	14760	15822
35°	13625	14222	15583
40°	12941	13675	15326
45°	12170	13012	14970
50°	11305	12362	14494
55°	10256	11574	13813
60°	8721	10675	12817
65°	6681	9545	10986
70°	5784	7945	7109
75°	5326	5900	3322
80°	4751	4731	2840
85°	4005	4014	2121



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	267.2	3.9
10°-20°	749.4	11.1
20°-30°	1099.2	16.2
30°-40°	1274.7	18.8
40°-50°	1262.1	18.7
50°-60°	1065.0	15.7
60°-70°	690.2	10.2
70°-80°	279.2	4.1
80°-90°	77.5	1.1
90°-100°	1.8	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°	2115.8	31.3
0°-40°	3390.5	50.1
0°-60°	5717.6	84.5
0°-90°	6764.4	100.0
90°-120°	1.8	0.0
90°-150°	1.8	0.0
90°-180°	2.0	0.0
0°-180°	6766.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2843	2843	2843	2843	2843	
5°	2838	2809	2822	2820	2822	268
15°	2615	2602	2657	2704	2731	737
25°	2296	2296	2385	2458	2524	1057
35°	1903	1916	2028	2136	2241	1190
45°	1468	1499	1617	1753	1882	1133
55°	1004	1056	1182	1321	1434	892
65°	482	558	734	823	865	500
75°	236	246	291	238	170	250
85°	60	71	81	66	47	66
90°	0	10	18	13	0	4
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°	2843.4	2843.4	2843.4	2843.4	2843.4
2.5°	2861.7	2830.3	2838.1	2832.9	2822.4
5°	2838.1	2809.3	2822.4	2819.8	2822.4
7.5°	2796.2	2772.6	2796.2	2804.0	2814.5
10°	2743.8	2725.4	2759.5	2777.8	2790.9
12.5°	2683.5	2667.8	2714.9	2743.8	2764.7
15°	2615.4	2602.3	2657.3	2704.5	2730.7
17.5°	2544.6	2534.1	2597.0	2657.3	2686.1
20°	2471.2	2460.8	2534.1	2594.4	2639.0
22.5°	2384.8	2379.5	2463.4	2526.3	2586.5
25°	2295.7	2295.7	2384.8	2458.1	2523.6
27.5°	2206.6	2206.6	2300.9	2382.1	2463.4
30°	2107.0	2114.8	2217.0	2306.1	2392.6
32.5°	2004.8	2017.9	2122.7	2222.3	2319.2
35°	1902.6	1915.7	2028.4	2135.8	2240.6
37.5°	1800.4	1818.7	1931.4	2044.1	2162.0
40°	1690.3	1713.9	1831.8	1949.7	2072.9
42.5°	1582.8	1609.1	1727.0	1852.8	1981.2
45°	1467.5	1499.0	1616.9	1753.2	1881.6
47.5°	1360.1	1391.5	1514.7	1648.4	1776.8
50°	1239.5	1278.9	1404.6	1543.5	1669.3
52.5°	1124.2	1168.8	1292.0	1433.5	1556.6
55°	1003.7	1056.1	1181.9	1320.8	1433.5
57.5°	875.3	938.2	1069.2	1202.9	1305.1
60°	744.3	820.3	959.1	1082.3	1174.0
62.5°	602.7	691.8	843.8	959.1	1024.7
65°	482.2	558.2	733.8	822.9	864.8
67.5°	401.0	445.5	613.2	678.7	678.7
70°	338.1	361.6	503.2	518.9	463.8
72.5°	285.6	298.7	393.1	353.8	264.7
75°	235.9	246.3	290.9	238.5	170.3
77.5°	188.7	196.5	220.1	180.8	133.7
80°	141.5	152.0	165.1	138.9	104.8
82.5°	99.6	107.4	123.2	102.2	76.0
85°	60.3	70.8	81.2	65.5	47.2
87.5°	26.2	34.1	44.6	34.1	21.0
90°	0.0	10.5	18.3	13.1	0.0
92.5°	0.0	0.0	2.6	2.6	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



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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)