

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: P256985

Luminaire Tested: **HGL-S-BF-60L940-UNV-8**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P256985  
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-60L940-UNV-8  
Description: HUGO 8 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH FROSTED LENS  
Light Source: (336) 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7837.4 lumens  
Efficiency: N/A  
Efficacy: 82.9 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

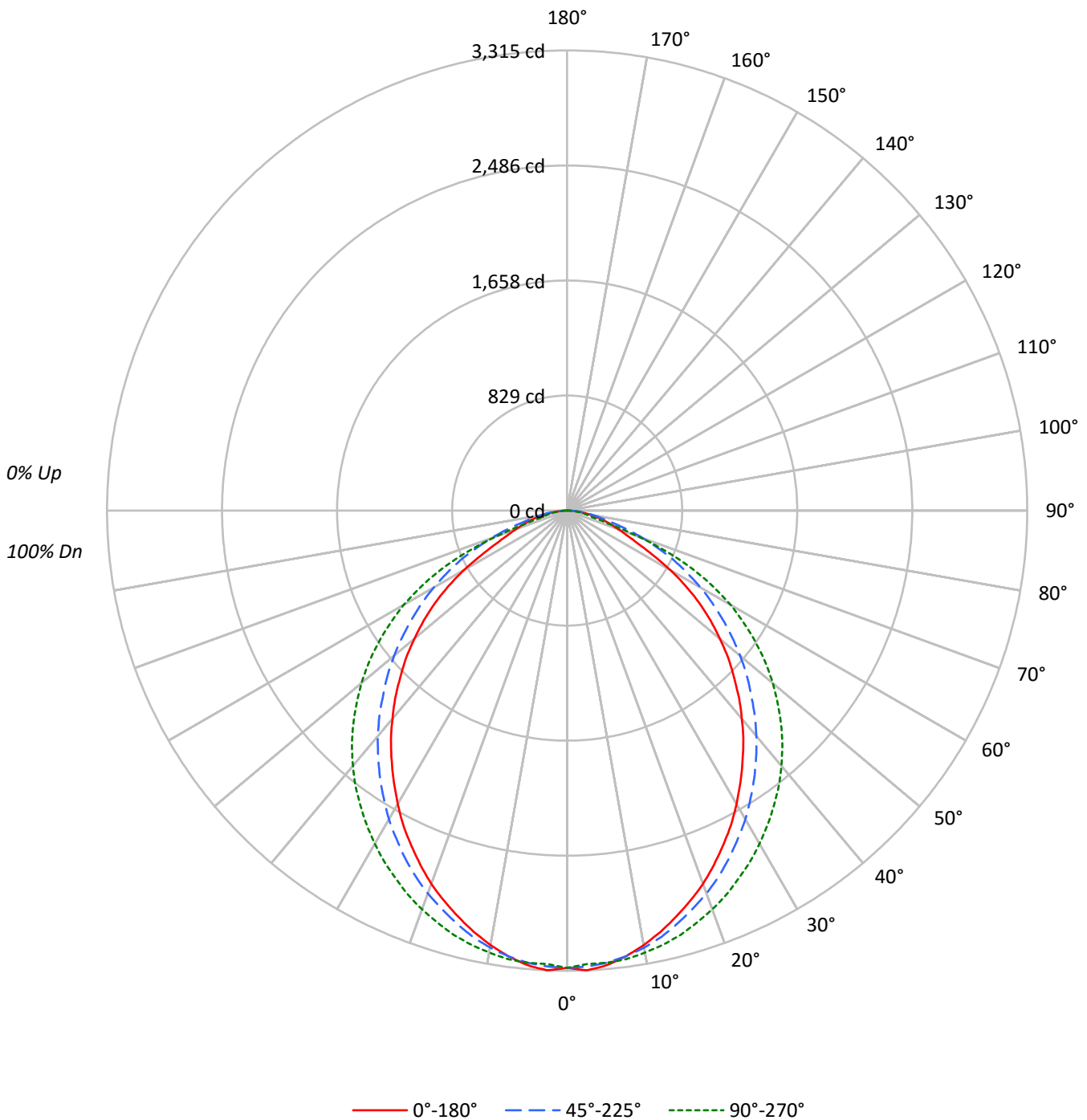
Input Watts (W): 94.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	19337	19337	19337
5°	19373	19214	19194
10°	18944	18950	19126
15°	18408	18551	19004
20°	17877	18130	18800
25°	17216	17634	18559
30°	16533	17096	18327
35°	15782	16474	18051
40°	14990	15840	17753
45°	14097	15073	17340
50°	13095	14319	16788
55°	11879	13406	15999
60°	10101	12366	14846
65°	7738	11055	12725
70°	6699	9202	8236
75°	6169	6833	3849
80°	5503	5479	3290
85°	4636	4652	2454



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	309.6	3.9
10°-20°	868.0	11.1
20°-30°	1273.2	16.2
30°-40°	1476.5	18.8
40°-50°	1461.9	18.7
50°-60°	1233.6	15.7
60°-70°	799.4	10.2
70°-80°	323.4	4.1
80°-90°	89.7	1.1
90°-100°	2.1	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°	2450.8	31.3
0°-40°	3927.3	50.1
0°-60°	6622.8	84.5
0°-90°	7835.3	100.0
90°-120°	2.1	0.0
90°-150°	2.1	0.0
90°-180°	2.0	0.0
0°-180°	7837.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3294	3294	3294	3294	3294	
5°	3288	3254	3269	3266	3269	310
15°	3029	3014	3078	3133	3163	853
25°	2659	2659	2762	2847	2923	1224
35°	2204	2219	2350	2474	2595	1378
45°	1700	1736	1873	2031	2180	1312
55°	1163	1223	1369	1530	1660	1033
65°	558	647	850	953	1002	580
75°	273	285	337	276	197	290
85°	70	82	94	76	55	77
90°	0	12	21	15	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°	3293.5	3293.5	3293.5	3293.5	3293.5
2.5°	3314.8	3278.3	3287.5	3281.4	3269.2
5°	3287.5	3254.1	3269.2	3266.2	3269.2
7.5°	3238.9	3211.6	3238.9	3248.0	3260.1
10°	3178.2	3156.9	3196.4	3217.6	3232.8
12.5°	3108.4	3090.1	3144.8	3178.2	3202.5
15°	3029.4	3014.3	3078.0	3132.6	3163.0
17.5°	2947.5	2935.3	3008.2	3078.0	3111.4
20°	2862.5	2850.3	2935.3	3005.2	3056.8
22.5°	2762.3	2756.2	2853.4	2926.2	2996.0
25°	2659.1	2659.1	2762.3	2847.3	2923.2
27.5°	2555.9	2555.9	2665.2	2759.3	2853.4
30°	2440.5	2449.7	2568.0	2671.2	2771.4
32.5°	2322.2	2337.3	2458.8	2574.1	2686.4
35°	2203.8	2219.0	2349.5	2473.9	2595.4
37.5°	2085.4	2106.6	2237.2	2367.7	2504.3
40°	1957.9	1985.2	2121.8	2258.4	2401.1
42.5°	1833.4	1863.8	2000.4	2146.1	2294.8
45°	1699.9	1736.3	1872.9	2030.8	2179.5
47.5°	1575.4	1611.9	1754.5	1909.3	2058.1
50°	1435.8	1481.3	1627.0	1787.9	1933.6
52.5°	1302.2	1353.8	1496.5	1660.4	1803.1
55°	1162.6	1223.3	1369.0	1529.9	1660.4
57.5°	1013.9	1086.7	1238.5	1393.3	1511.7
60°	862.1	950.1	1111.0	1253.7	1359.9
62.5°	698.2	801.4	977.4	1111.0	1186.9
65°	558.5	646.6	849.9	953.1	1001.7
67.5°	464.4	516.0	710.3	786.2	786.2
70°	391.6	418.9	582.8	601.0	537.3
72.5°	330.9	346.0	455.3	409.8	306.6
75°	273.2	285.3	336.9	276.2	197.3
77.5°	218.6	227.7	255.0	209.4	154.8
80°	163.9	176.1	191.2	160.9	121.4
82.5°	115.3	124.5	142.7	118.4	88.0
85°	69.8	82.0	94.1	75.9	54.6
87.5°	30.4	39.5	51.6	39.5	24.3
90°	0.0	12.1	21.2	15.2	0.0
92.5°	0.0	0.0	3.0	3.0	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



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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)