

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: P256973

Luminaire Tested: **HGL-S-BF-40L840-UNV-8**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P256973  
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-40L840-UNV-8  
Description: HUGO 8 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH FROSTED LENS  
Light Source: (336) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6866.9 lumens  
Efficiency: N/A  
Efficacy: 118.4 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

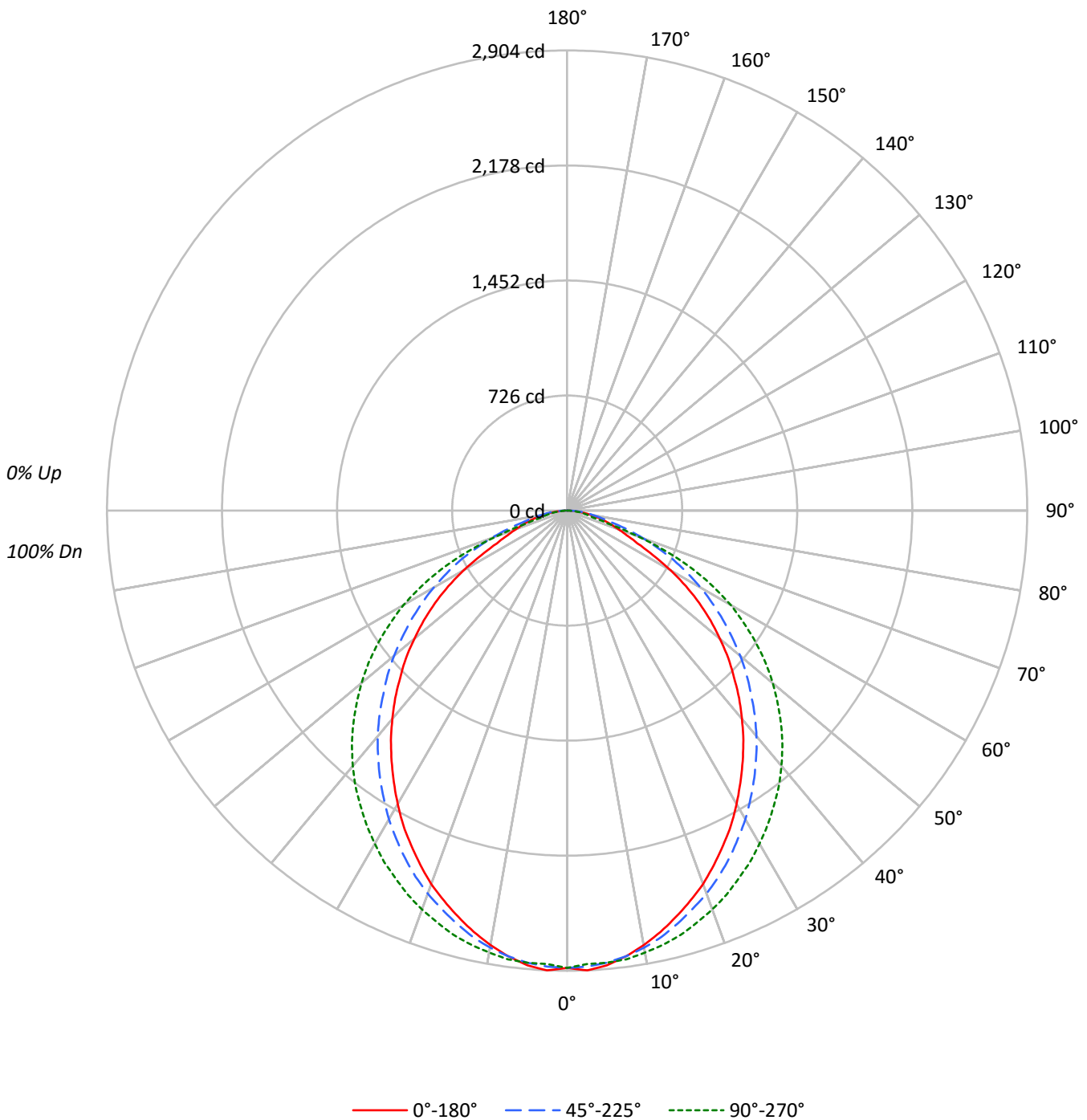
Input Watts (W): 58  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	16943	16943	16943
5°	16974	16835	16818
10°	16598	16604	16758
15°	16128	16254	16650
20°	15663	15886	16472
25°	15084	15450	16261
30°	14486	14979	16057
35°	13827	14434	15816
40°	13134	13879	15555
45°	12351	13206	15193
50°	11473	12547	14710
55°	10408	11746	14018
60°	8850	10834	13008
65°	6781	9686	11150
70°	5870	8062	7217
75°	5405	5987	3373
80°	4821	4802	2884
85°	4065	4073	2153



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	271.2	3.9
10°-20°	760.5	11.1
20°-30°	1115.6	16.2
30°-40°	1293.7	18.8
40°-50°	1280.9	18.7
50°-60°	1080.8	15.7
60°-70°	700.4	10.2
70°-80°	283.4	4.1
80°-90°	78.6	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°	2147.3	31.3
0°-40°	3441.0	50.1
0°-60°	5802.7	84.5
0°-90°	6865.1	100.0
90°-120°	1.8	0.0
90°-150°	1.8	0.0
90°-180°	2.0	0.0
0°-180°	6866.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2886	2886	2886	2886	2886	
5°	2880	2851	2864	2862	2864	272
15°	2654	2641	2697	2745	2771	748
25°	2330	2330	2420	2495	2561	1073
35°	1931	1944	2059	2168	2274	1207
45°	1489	1521	1641	1779	1910	1150
55°	1019	1072	1200	1340	1455	905
65°	489	566	745	835	878	508
75°	239	250	295	242	173	254
85°	61	72	82	66	48	67
90°	0	11	19	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°	2885.7	2885.7	2885.7	2885.7	2885.7
2.5°	2904.3	2872.4	2880.4	2875.1	2864.4
5°	2880.4	2851.1	2864.4	2861.8	2864.4
7.5°	2837.8	2813.9	2837.8	2845.8	2856.4
10°	2784.6	2766.0	2800.6	2819.2	2832.5
12.5°	2723.5	2707.5	2755.4	2784.6	2805.9
15°	2654.3	2641.0	2696.9	2744.7	2771.3
17.5°	2582.5	2571.9	2635.7	2696.9	2726.1
20°	2508.0	2497.4	2571.9	2633.0	2678.3
22.5°	2420.3	2414.9	2500.1	2563.9	2625.1
25°	2329.8	2329.8	2420.3	2494.7	2561.2
27.5°	2239.4	2239.4	2335.2	2417.6	2500.1
30°	2138.3	2146.3	2250.0	2340.5	2428.2
32.5°	2034.6	2047.9	2154.3	2255.4	2353.8
35°	1930.9	1944.2	2058.6	2167.6	2274.0
37.5°	1827.2	1845.8	1960.1	2074.5	2194.2
40°	1715.5	1739.4	1859.1	1978.8	2103.8
42.5°	1606.4	1633.0	1752.7	1880.4	2010.7
45°	1489.4	1521.3	1641.0	1779.3	1909.6
47.5°	1380.3	1412.3	1537.3	1672.9	1803.2
50°	1258.0	1297.9	1425.6	1566.5	1694.2
52.5°	1141.0	1186.2	1311.2	1454.8	1579.8
55°	1018.6	1071.8	1199.5	1340.5	1454.8
57.5°	888.3	952.1	1085.1	1220.8	1324.5
60°	755.3	832.5	973.4	1098.4	1191.5
62.5°	611.7	702.1	856.4	973.4	1039.9
65°	489.4	566.5	744.7	835.1	877.7
67.5°	406.9	452.1	622.4	688.8	688.8
70°	343.1	367.0	510.6	526.6	470.8
72.5°	289.9	303.2	398.9	359.1	268.6
75°	239.4	250.0	295.2	242.0	172.9
77.5°	191.5	199.5	223.4	183.5	135.6
80°	143.6	154.3	167.6	141.0	106.4
82.5°	101.1	109.0	125.0	103.7	77.1
85°	61.2	71.8	82.4	66.5	47.9
87.5°	26.6	34.6	45.2	34.6	21.3
90°	0.0	10.6	18.6	13.3	0.0
92.5°	0.0	0.0	2.7	2.7	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)