

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: P257001

Luminaire Tested: **HGL-S-BF-80L840-UNV-12**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P257001  
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-80L840-UNV-12  
Description: HUGO 12 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH FROSTED LENS  
Light Source: (504) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21051.3 lumens  
Efficiency: N/A  
Efficacy: 99.3 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

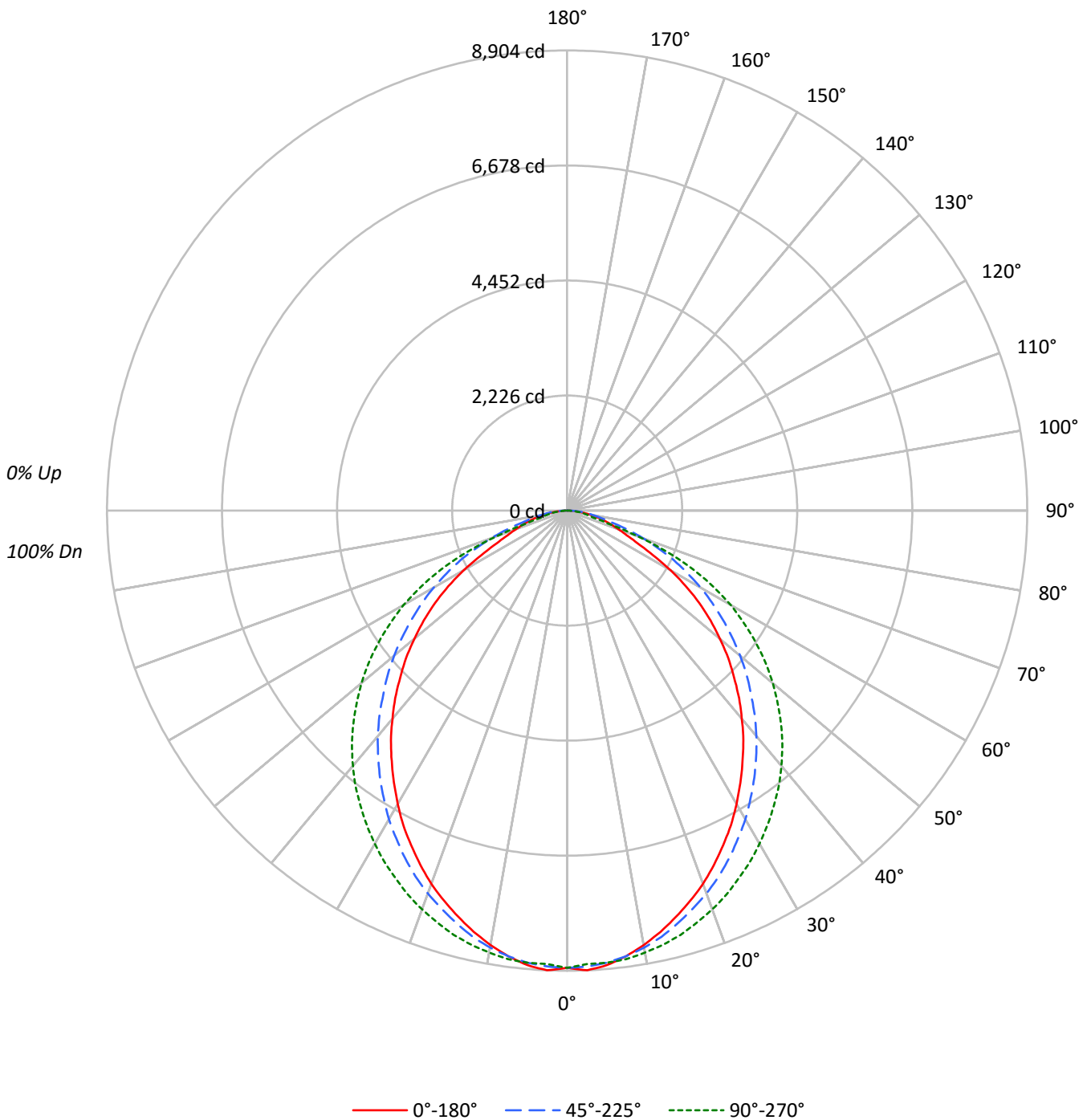
Input Watts (W): 212  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P257001

CATALOG NUMBER: HGL-S-BF-80L840-UNV-12

### Luminous Intensity Polar Plot





TEST NUMBER: P257001

CATALOG NUMBER: HGL-S-BF-80L840-UNV-12

**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°	34626	34626	34626
5°	34692	34408	34371
10°	33924	33935	34248
15°	32966	33222	34029
20°	32016	32469	33665
25°	30834	31581	33234
30°	29614	30620	32818
35°	28268	29505	32322
40°	26852	28372	31789
45°	25253	26998	31050
50°	23460	25650	30063
55°	21284	24015	28649
60°	18101	22154	26585
65°	13870	19808	22787
70°	12010	16490	14747
75°	11063	12249	6893
80°	9878	9827	5892
85°	8341	8352	4399



TEST NUMBER: P257001

CATALOG NUMBER: HGL-S-BF-80L840-UNV-12

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	831.5	3.9
10°-20°	2331.5	11.1
20°-30°	3419.9	16.2
30°-40°	3966.0	18.8
40°-50°	3926.6	18.7
50°-60°	3313.3	15.7
60°-70°	2147.3	10.2
70°-80°	868.7	4.1
80°-90°	241.0	1.1
90°-100°	5.6	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°	6582.8	31.3
0°-40°	10548.8	50.1
0°-60°	17788.8	84.5
0°-90°	21045.7	100.0
90°-120°	5.6	0.0
90°-150°	5.6	0.0
90°-180°	6.0	0.0
0°-180°	21051.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8846	8846	8846	8846	8846	
5°	8830	8740	8781	8773	8781	833
15°	8137	8096	8268	8414	8496	2292
25°	7142	7142	7420	7648	7852	3288
35°	5919	5960	6311	6645	6971	3701
45°	4566	4664	5031	5455	5854	3524
55°	3123	3286	3677	4109	4460	2775
65°	1500	1737	2283	2560	2691	1557
75°	734	766	905	742	530	779
85°	188	220	253	204	147	206
90°	0	33	57	41	0	11
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: P257001

CATALOG NUMBER: HGL-S-BF-80L840-UNV-12

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	8846.4	8846.4	8846.4	8846.4	8846.4
2.5°	8903.5	8805.6	8830.1	8813.8	8781.2
5°	8830.1	8740.4	8781.2	8773.0	8781.2
7.5°	8699.7	8626.3	8699.7	8724.1	8756.7
10°	8536.6	8479.5	8585.5	8642.6	8683.3
12.5°	8349.1	8300.1	8446.9	8536.6	8601.8
15°	8137.1	8096.3	8267.5	8414.3	8495.8
17.5°	7916.9	7884.3	8080.0	8267.5	8357.2
20°	7688.6	7656.0	7884.3	8071.8	8210.5
22.5°	7419.6	7403.3	7664.2	7859.9	8047.4
25°	7142.4	7142.4	7419.6	7647.9	7851.7
27.5°	6865.1	6865.1	7158.7	7411.4	7664.2
30°	6555.3	6579.8	6897.8	7175.0	7444.0
32.5°	6237.3	6278.1	6604.2	6914.1	7215.7
35°	5919.4	5960.1	6310.7	6645.0	6971.1
37.5°	5601.4	5658.4	6009.0	6359.6	6726.5
40°	5258.9	5332.3	5699.2	6066.1	6449.3
42.5°	4924.6	5006.2	5373.1	5764.4	6164.0
45°	4565.9	4663.7	5030.6	5454.6	5854.1
47.5°	4231.6	4329.4	4712.7	5128.5	5528.0
50°	3856.5	3978.8	4370.2	4802.3	5193.7
52.5°	3497.8	3636.4	4019.6	4459.9	4843.1
55°	3122.7	3285.8	3677.2	4109.3	4459.9
57.5°	2723.2	2918.9	3326.6	3742.4	4060.4
60°	2315.6	2552.0	2984.1	3367.3	3652.7
62.5°	1875.3	2152.5	2625.4	2984.1	3188.0
65°	1500.2	1736.7	2282.9	2560.2	2690.6
67.5°	1247.5	1386.1	1907.9	2111.7	2111.7
70°	1051.8	1125.2	1565.4	1614.4	1443.1
72.5°	888.7	929.5	1223.0	1100.7	823.5
75°	733.8	766.4	905.0	742.0	530.0
77.5°	587.0	611.5	684.9	562.6	415.8
80°	440.3	472.9	513.7	432.1	326.1
82.5°	309.8	334.3	383.2	318.0	236.4
85°	187.5	220.1	252.8	203.8	146.8
87.5°	81.5	106.0	138.6	106.0	65.2
90°	0.0	32.6	57.1	40.8	0.0
92.5°	0.0	0.0	8.2	8.2	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: P257001

CATALOG NUMBER: HGL-S-BF-80L840-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)