

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: P256949

Luminaire Tested: **HGL-S-BF-80L840-UNV-4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P256949  
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-4  
Description: HUGO 4 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH FROSTED LENS  
Light Source: (168) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7017.1 lumens  
Efficiency: N/A  
Efficacy: 99.0 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.25 / 1.28  
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 4' x H: 0.01')  
CIE Type: Direct

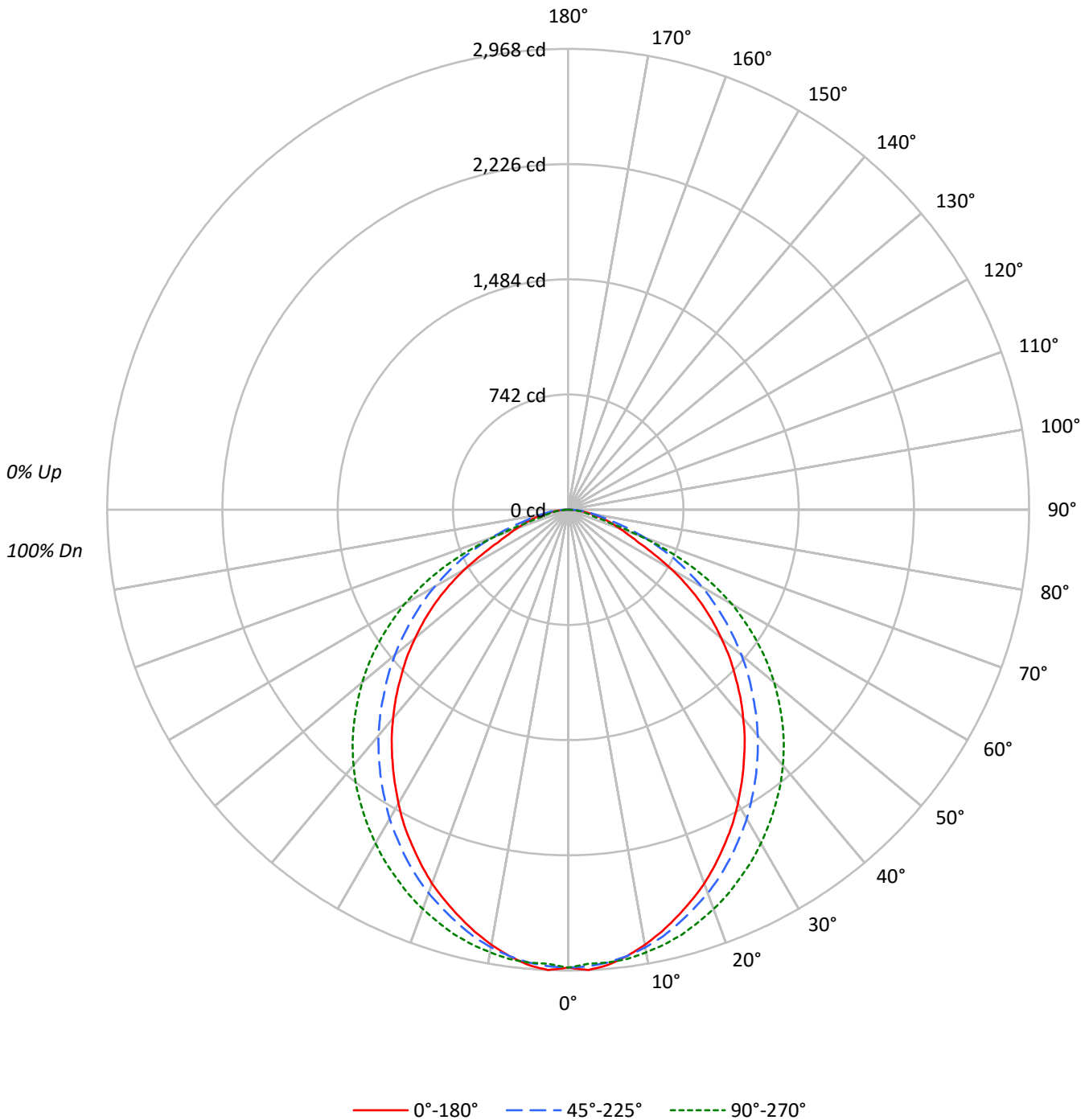
Input Watts (W): 70.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	34626	34626	34626
5°	34687	34404	34371
10°	33914	33928	34248
15°	32952	33211	34029
20°	31997	32455	33664
25°	30811	31563	33233
30°	29585	30600	32817
35°	28235	29481	32322
40°	26815	28344	31790
45°	25212	26967	31051
50°	23414	25615	30062
55°	21234	23976	28649
60°	18050	22111	26586
65°	13821	19762	22788
70°	11955	16441	14746
75°	10995	12202	6894
80°	9788	9769	5892
85°	8187	8273	4396



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	277.2	3.9
10°-20°	777.2	11.1
20°-30°	1140.0	16.2
30°-40°	1322.0	18.8
40°-50°	1308.9	18.7
50°-60°	1104.5	15.7
60°-70°	715.8	10.2
70°-80°	289.6	4.1
80°-90°	80.3	1.1
90°-100°	1.9	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°	2194.3	31.3
0°-40°	3516.3	50.1
0°-60°	5929.6	84.5
0°-90°	7015.2	100.0
90°-120°	1.9	0.0
90°-150°	1.9	0.0
90°-180°	2.0	0.0
0°-180°	7017.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2949	2949	2949	2949	2949	
5°	2943	2914	2927	2924	2927	278
15°	2712	2699	2756	2805	2832	764
25°	2381	2381	2473	2549	2617	1096
35°	1973	1987	2104	2215	2324	1234
45°	1522	1555	1677	1818	1951	1175
55°	1041	1095	1226	1370	1487	925
65°	500	579	761	853	897	519
75°	245	256	302	247	177	260
85°	62	73	84	68	49	69
90°	0	11	19	14	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



TEST NUMBER: P256949

CATALOG NUMBER: HGL-S-BF-80L840-UNV-4

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2948.8	2948.8	2948.8	2948.8	2948.8
2.5°	2967.8	2935.2	2943.4	2937.9	2927.1
5°	2943.4	2913.5	2927.1	2924.3	2927.1
7.5°	2899.9	2875.4	2899.9	2908.0	2918.9
10°	2845.5	2826.5	2861.8	2880.9	2894.4
12.5°	2783.0	2766.7	2815.6	2845.5	2867.3
15°	2712.4	2698.8	2755.8	2804.8	2831.9
17.5°	2639.0	2628.1	2693.3	2755.8	2785.7
20°	2562.9	2552.0	2628.1	2690.6	2736.8
22.5°	2473.2	2467.8	2554.7	2620.0	2682.5
25°	2380.8	2380.8	2473.2	2549.3	2617.2
27.5°	2288.4	2288.4	2386.2	2470.5	2554.7
30°	2185.1	2193.3	2299.3	2391.7	2481.3
32.5°	2079.1	2092.7	2201.4	2304.7	2405.2
35°	1973.1	1986.7	2103.6	2215.0	2323.7
37.5°	1867.1	1886.1	2003.0	2119.9	2242.2
40°	1753.0	1777.4	1899.7	2022.0	2149.8
42.5°	1641.5	1668.7	1791.0	1921.5	2054.7
45°	1522.0	1554.6	1676.9	1818.2	1951.4
47.5°	1410.5	1443.1	1570.9	1709.5	1842.7
50°	1285.5	1326.3	1456.7	1600.8	1731.2
52.5°	1165.9	1212.1	1339.9	1486.6	1614.4
55°	1040.9	1095.3	1225.7	1369.8	1486.6
57.5°	907.7	973.0	1108.9	1247.5	1353.5
60°	771.9	850.7	994.7	1122.4	1217.6
62.5°	625.1	717.5	875.1	994.7	1062.7
65°	500.1	578.9	761.0	853.4	896.9
67.5°	415.8	462.0	636.0	703.9	703.9
70°	350.6	375.1	521.8	538.1	481.0
72.5°	296.2	309.8	407.7	366.9	274.5
75°	244.6	255.5	301.7	247.3	176.7
77.5°	195.7	203.8	228.3	187.5	138.6
80°	146.8	157.6	171.2	144.0	108.7
82.5°	103.3	111.4	127.7	106.0	78.8
85°	62.5	73.4	84.3	67.9	48.9
87.5°	27.2	35.3	46.2	35.3	21.7
90°	0.0	10.9	19.0	13.6	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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CATALOG NUMBER: HGL-S-BF-80L840-UNV-4

**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)