

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: P257003

Luminaire Tested: **HGL-S-BF-40L930-UNV-12**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P257003  
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-40L930-UNV-12  
Description: HUGO 12 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH FROSTED LENS  
Light Source: (504) 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

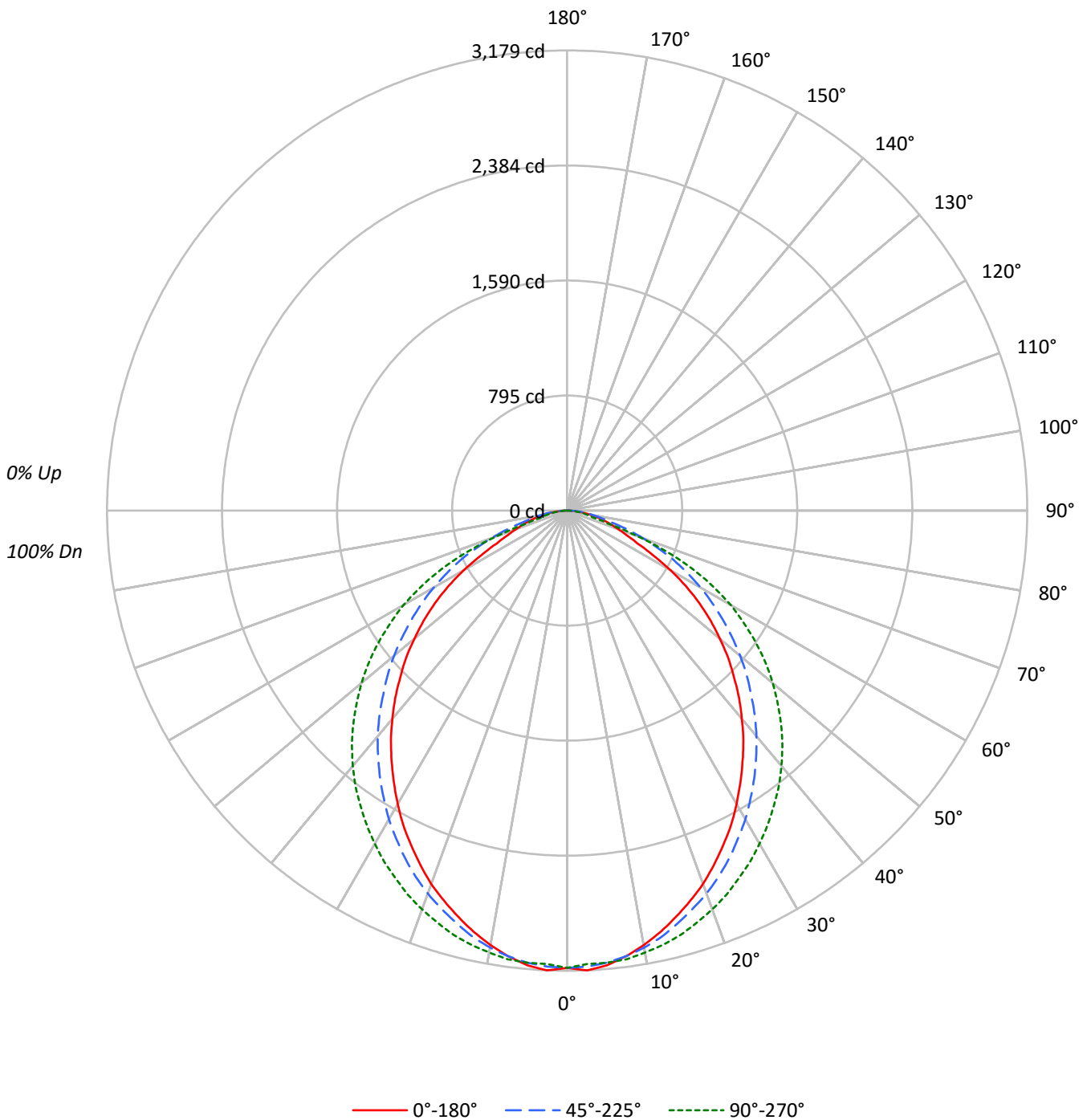
Lumens per Lamp: N/A  
Luminaire Lumens: 7516.8 lumens  
Efficiency: N/A  
Efficacy: 87.7 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.25 / 1.28  
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 12' x H: 0.01')  
CIE Type: Direct

Input Watts (W): 85.7  
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					86			
2	101	93	87	81	98	91	85	80	88	83	78	84	80	77	81	78	75	73					73			
3	92	82	75	68	90	81	74	68	78	72	67	75	70	66	73	68	64	62					62			
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54					54			
5	78	66	57	51	76	65	57	51	63	56	50	61	54	50	59	53	49	47					47			
6	72	59	51	45	70	59	50	45	57	50	44	55	49	44	54	48	43	41					41			
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39	37					37			
8	63	49	41	36	61	49	41	35	47	40	35	46	40	35	45	39	35	33					33			
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30					30			
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27					27			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	12364	12364	12364
5°	12388	12286	12273
10°	12113	12117	12229
15°	11771	11863	12151
20°	11432	11594	12021
25°	11010	11276	11867
30°	10574	10933	11718
35°	10094	10535	11541
40°	9588	10131	11351
45°	9017	9640	11087
50°	8377	9159	10734
55°	7600	8575	10230
60°	6463	7910	9493
65°	4953	7073	8136
70°	4289	5889	5266
75°	3950	4374	2461
80°	3527	3508	2105
85°	2981	2983	1570



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	296.9	3.9
10°-20°	832.5	11.1
20°-30°	1221.1	16.2
30°-40°	1416.1	18.8
40°-50°	1402.1	18.7
50°-60°	1183.1	15.7
60°-70°	766.7	10.2
70°-80°	310.2	4.1
80°-90°	86.1	1.1
90°-100°	2.0	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°	2350.5	31.3
0°-40°	3766.7	50.1
0°-60°	6351.8	84.5
0°-90°	7514.8	100.0
90°-120°	2.0	0.0
90°-150°	2.0	0.0
90°-180°	2.0	0.0
0°-180°	7516.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3159	3159	3159	3159	3159	
5°	3153	3121	3136	3133	3136	297
15°	2906	2891	2952	3004	3034	818
25°	2550	2550	2649	2731	2804	1174
35°	2114	2128	2253	2373	2489	1321
45°	1630	1665	1796	1948	2090	1258
55°	1115	1173	1313	1467	1592	991
65°	536	620	815	914	961	556
75°	262	274	323	265	189	278
85°	67	79	90	73	52	74
90°	0	12	20	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



TEST NUMBER: P257003

CATALOG NUMBER: HGL-S-BF-40L930-UNV-12

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3158.8	3158.8	3158.8	3158.8	3158.8
2.5°	3179.2	3144.2	3153.0	3147.1	3135.5
5°	3153.0	3120.9	3135.5	3132.6	3135.5
7.5°	3106.4	3080.2	3106.4	3115.1	3126.8
10°	3048.2	3027.8	3065.6	3086.0	3100.6
12.5°	2981.2	2963.7	3016.1	3048.2	3071.5
15°	2905.5	2891.0	2952.1	3004.5	3033.6
17.5°	2826.9	2815.3	2885.1	2952.1	2984.1
20°	2745.4	2733.7	2815.3	2882.2	2931.7
22.5°	2649.3	2643.5	2736.6	2806.5	2873.5
25°	2550.3	2550.3	2649.3	2730.8	2803.6
27.5°	2451.3	2451.3	2556.1	2646.4	2736.6
30°	2340.7	2349.4	2463.0	2562.0	2658.0
32.5°	2227.2	2241.7	2358.2	2468.8	2576.5
35°	2113.6	2128.2	2253.4	2372.7	2489.2
37.5°	2000.1	2020.5	2145.6	2270.8	2401.8
40°	1877.8	1904.0	2035.0	2166.0	2302.9
42.5°	1758.4	1787.6	1918.6	2058.3	2201.0
45°	1630.3	1665.3	1796.3	1947.7	2090.3
47.5°	1511.0	1545.9	1682.7	1831.2	1973.9
50°	1377.1	1420.7	1560.5	1714.8	1854.5
52.5°	1249.0	1298.5	1435.3	1592.5	1729.3
55°	1115.0	1173.3	1313.0	1467.3	1592.5
57.5°	972.4	1042.3	1187.8	1336.3	1449.8
60°	826.8	911.2	1065.5	1202.4	1304.3
62.5°	669.6	768.6	937.4	1065.5	1138.3
65°	535.7	620.1	815.2	914.2	960.7
67.5°	445.4	494.9	681.3	754.0	754.0
70°	375.6	401.8	559.0	576.4	515.3
72.5°	317.3	331.9	436.7	393.0	294.0
75°	262.0	273.7	323.2	264.9	189.2
77.5°	209.6	218.3	244.6	200.9	148.5
80°	157.2	168.9	183.4	154.3	116.5
82.5°	110.6	119.4	136.8	113.5	84.4
85°	67.0	78.6	90.3	72.8	52.4
87.5°	29.1	37.8	49.5	37.8	23.3
90°	0.0	11.6	20.4	14.6	0.0
92.5°	0.0	0.0	2.9	2.9	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-40L930-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)