

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: P256996

Luminaire Tested: **HGL-S-BF-80L835-UNV-12**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P256996  
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-80L835-UNV-12  
Description: HUGO 12 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH FROSTED LENS  
Light Source: (504) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20742.4 lumens  
Efficiency: N/A  
Efficacy: 97.8 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

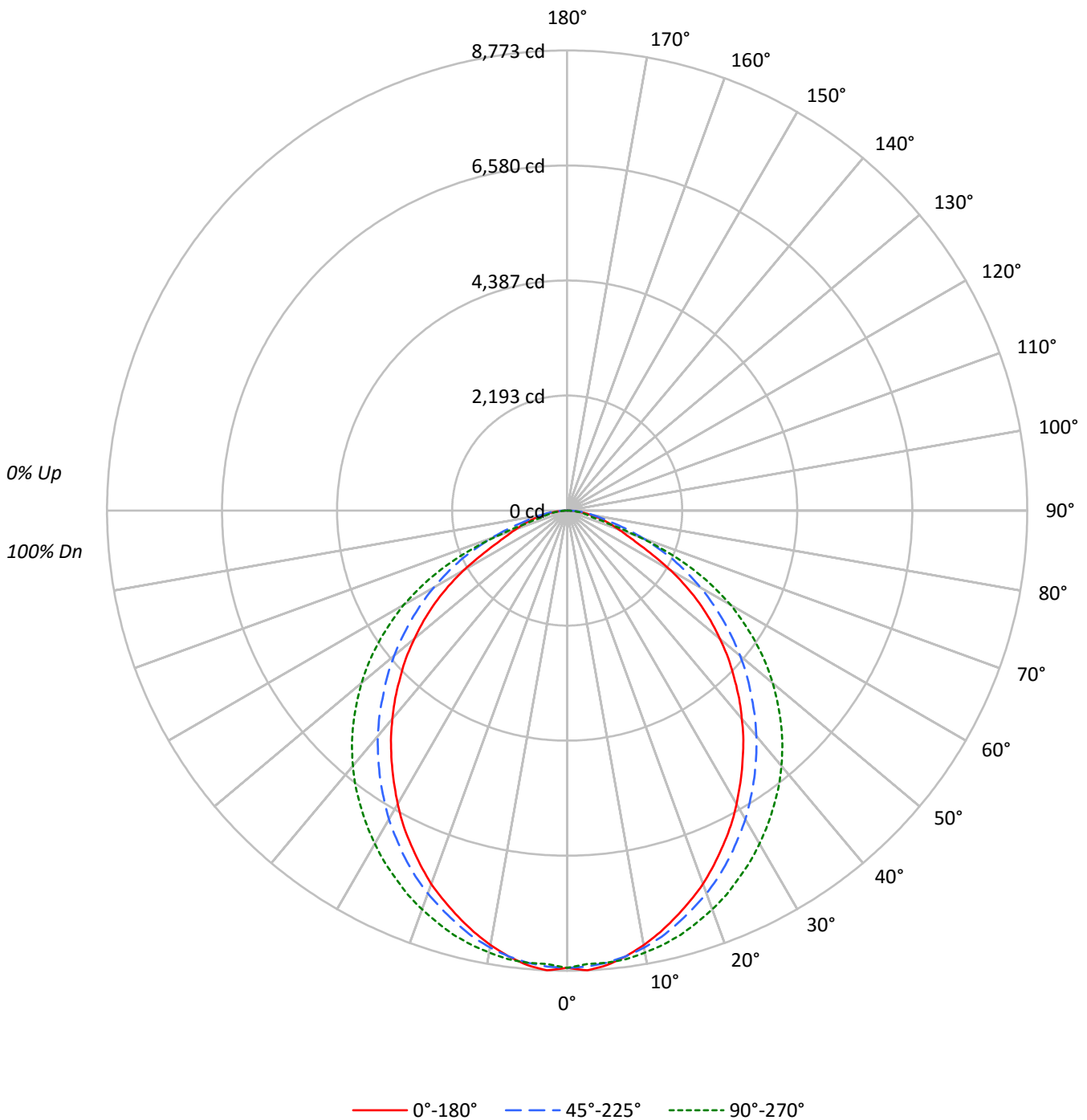
Input Watts (W): 212  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	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°	34118	34118	34118
5°	34183	33902	33866
10°	33426	33437	33746
15°	32482	32734	33530
20°	31546	31993	33171
25°	30382	31117	32746
30°	29179	30170	32336
35°	27853	29072	31848
40°	26458	27956	31323
45°	24883	26602	30594
50°	23116	25274	29622
55°	20972	23662	28229
60°	17835	21829	26195
65°	13666	19517	22453
70°	11834	16249	14531
75°	10900	12069	6791
80°	9732	9681	5806
85°	8221	8226	4333



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	819.3	3.9
10°-20°	2297.3	11.1
20°-30°	3369.7	16.2
30°-40°	3907.8	18.8
40°-50°	3869.0	18.7
50°-60°	3264.7	15.7
60°-70°	2115.8	10.2
70°-80°	855.9	4.1
80°-90°	237.5	1.1
90°-100°	5.5	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°	6486.2	31.3
0°-40°	10394.0	50.1
0°-60°	17527.8	84.5
0°-90°	20736.9	100.0
90°-120°	5.5	0.0
90°-150°	5.5	0.0
90°-180°	5.0	0.0
0°-180°	20742.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8717	8717	8717	8717	8717	
5°	8700	8612	8652	8644	8652	821
15°	8018	7978	8146	8291	8371	2258
25°	7038	7038	7311	7536	7736	3240
35°	5832	5873	6218	6548	6869	3647
45°	4499	4595	4957	5375	5768	3473
55°	3077	3238	3623	4049	4394	2734
65°	1478	1711	2249	2523	2651	1534
75°	723	755	892	731	522	768
85°	185	217	249	201	145	203
90°	0	32	56	40	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



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	8716.6	8716.6	8716.6	8716.6	8716.6
2.5°	8772.8	8676.4	8700.5	8684.5	8652.3
5°	8700.5	8612.2	8652.3	8644.3	8652.3
7.5°	8572.0	8499.7	8572.0	8596.1	8628.2
10°	8411.3	8355.1	8459.5	8515.8	8555.9
12.5°	8226.5	8178.3	8323.0	8411.3	8475.6
15°	8017.7	7977.5	8146.2	8290.8	8371.2
17.5°	7800.8	7768.6	7961.4	8146.2	8234.6
20°	7575.8	7543.7	7768.6	7953.4	8090.0
22.5°	7310.7	7294.6	7551.7	7744.5	7929.3
25°	7037.6	7037.6	7310.7	7535.6	7736.5
27.5°	6764.4	6764.4	7053.6	7302.7	7551.7
30°	6459.1	6483.2	6796.5	7069.7	7334.8
32.5°	6145.8	6186.0	6507.3	6812.6	7109.9
35°	5832.5	5872.7	6218.1	6547.5	6868.8
37.5°	5519.2	5575.4	5920.9	6266.3	6627.8
40°	5181.8	5254.1	5615.6	5977.1	6354.7
42.5°	4852.4	4932.7	5294.2	5679.9	6073.5
45°	4498.9	4595.3	4956.8	5374.6	5768.2
47.5°	4169.5	4265.9	4643.5	5053.2	5446.9
50°	3800.0	3920.5	4306.1	4731.9	5117.5
52.5°	3446.5	3583.0	3960.6	4394.5	4772.0
55°	3076.9	3237.6	3623.2	4049.0	4394.5
57.5°	2683.3	2876.1	3277.8	3687.5	4000.8
60°	2281.6	2514.6	2940.3	3317.9	3599.1
62.5°	1847.8	2120.9	2586.9	2940.3	3141.2
65°	1478.2	1711.2	2249.4	2522.6	2651.1
67.5°	1229.2	1365.7	1879.9	2080.7	2080.7
70°	1036.4	1108.7	1542.5	1590.7	1422.0
72.5°	875.7	915.8	1205.1	1084.6	811.4
75°	723.0	755.2	891.7	731.1	522.2
77.5°	578.4	602.5	674.8	554.3	409.7
80°	433.8	466.0	506.1	425.8	321.3
82.5°	305.3	329.4	377.6	313.3	233.0
85°	184.8	216.9	249.0	200.8	144.6
87.5°	80.3	104.4	136.6	104.4	64.3
90°	0.0	32.1	56.2	40.2	0.0
92.5°	0.0	0.0	8.0	8.0	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)