

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: P256991

Luminaire Tested: **HGL-S-BF-80L830-UNV-12**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P256991  
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-80L830-UNV-12  
Description: HUGO 12 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH FROSTED LENS  
Light Source: (504) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19994.0 lumens  
Efficiency: N/A  
Efficacy: 94.3 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

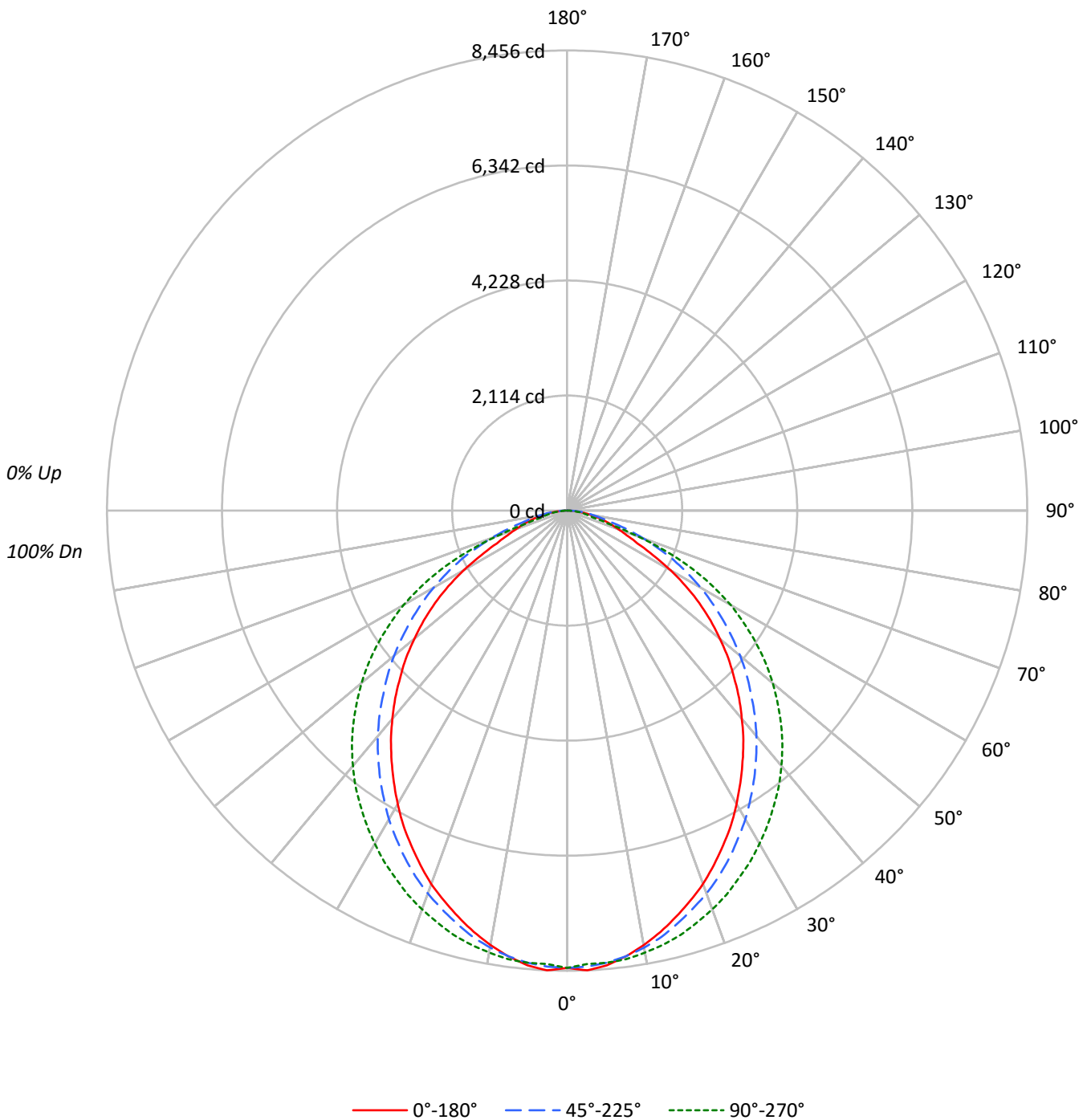
Input Watts (W): 212  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	32887	32887	32887
5°	32949	32679	32644
10°	32220	32231	32528
15°	31310	31553	32320
20°	30408	30838	31974
25°	29286	29994	31564
30°	28126	29082	31169
35°	26848	28023	30699
40°	25503	26947	30193
45°	23984	25641	29491
50°	22282	24362	28553
55°	20216	22809	27210
60°	17191	21041	25250
65°	13173	18813	21643
70°	11407	15662	14007
75°	10507	11634	6546
80°	9382	9333	5598
85°	7923	7932	4177



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	789.7	3.9
10°-20°	2214.4	11.1
20°-30°	3248.1	16.2
30°-40°	3766.8	18.8
40°-50°	3729.4	18.7
50°-60°	3146.9	15.7
60°-70°	2039.4	10.2
70°-80°	825.1	4.1
80°-90°	228.9	1.1
90°-100°	5.3	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°	6252.2	31.3
0°-40°	10019.0	50.1
0°-60°	16895.2	84.5
0°-90°	19988.7	100.0
90°-120°	5.3	0.0
90°-150°	5.3	0.0
90°-180°	5.0	0.0
0°-180°	19994.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8402	8402	8402	8402	8402	
5°	8387	8301	8340	8332	8340	791
15°	7728	7690	7852	7992	8069	2177
25°	6784	6784	7047	7264	7457	3123
35°	5622	5661	5994	6311	6621	3515
45°	4336	4430	4778	5181	5560	3347
55°	2966	3121	3492	3903	4236	2635
65°	1425	1649	2168	2432	2556	1479
75°	697	728	860	705	503	740
85°	178	209	240	194	139	196
90°	0	31	54	39	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°	8402.1	8402.1	8402.1	8402.1	8402.1
2.5°	8456.3	8363.3	8386.6	8371.1	8340.1
5°	8386.6	8301.4	8340.1	8332.4	8340.1
7.5°	8262.7	8193.0	8262.7	8285.9	8316.9
10°	8107.8	8053.6	8154.3	8208.5	8247.2
12.5°	7929.7	7883.2	8022.6	8107.8	8169.7
15°	7728.3	7689.6	7852.3	7991.6	8069.1
17.5°	7519.3	7488.3	7674.1	7852.3	7937.4
20°	7302.4	7271.5	7488.3	7666.4	7798.0
22.5°	7046.9	7031.4	7279.2	7465.1	7643.2
25°	6783.6	6783.6	7046.9	7263.7	7457.3
27.5°	6520.3	6520.3	6799.1	7039.1	7279.2
30°	6226.0	6249.3	6551.3	6814.6	7070.1
32.5°	5924.0	5962.8	6272.5	6566.8	6853.3
35°	5622.0	5660.7	5993.7	6311.2	6621.0
37.5°	5320.0	5374.2	5707.2	6040.2	6388.7
40°	4994.8	5064.5	5412.9	5761.4	6125.4
42.5°	4677.3	4754.7	5103.2	5474.9	5854.3
45°	4336.5	4429.5	4777.9	5180.6	5560.1
47.5°	4019.1	4112.0	4475.9	4870.9	5250.3
50°	3662.8	3779.0	4150.7	4561.1	4932.8
52.5°	3322.1	3453.8	3817.7	4235.9	4599.8
55°	2965.9	3120.8	3492.5	3902.9	4235.9
57.5°	2586.4	2772.3	3159.5	3554.4	3856.4
60°	2199.2	2423.8	2834.2	3198.2	3469.2
62.5°	1781.1	2044.4	2493.5	2834.2	3027.8
65°	1424.9	1649.4	2168.3	2431.6	2555.5
67.5°	1184.8	1316.5	1812.1	2005.7	2005.7
70°	999.0	1068.6	1486.8	1533.3	1370.7
72.5°	844.1	882.8	1161.6	1045.4	782.1
75°	696.9	727.9	859.6	704.7	503.3
77.5°	557.6	580.8	650.5	534.3	394.9
80°	418.2	449.1	487.9	410.4	309.8
82.5°	294.3	317.5	364.0	302.0	224.6
85°	178.1	209.1	240.1	193.6	139.4
87.5°	77.4	100.7	131.6	100.7	62.0
90°	0.0	31.0	54.2	38.7	0.0
92.5°	0.0	0.0	7.7	7.7	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)