

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: P256956

Luminaire Tested: **HGL-S-BF-30L940-UNV-4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P256956  
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-30L940-UNV-4  
Description: HUGO 4 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH FROSTED LENS  
Light Source: (168) 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2051.9 lumens  
Efficiency: N/A  
Efficacy: 88.4 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

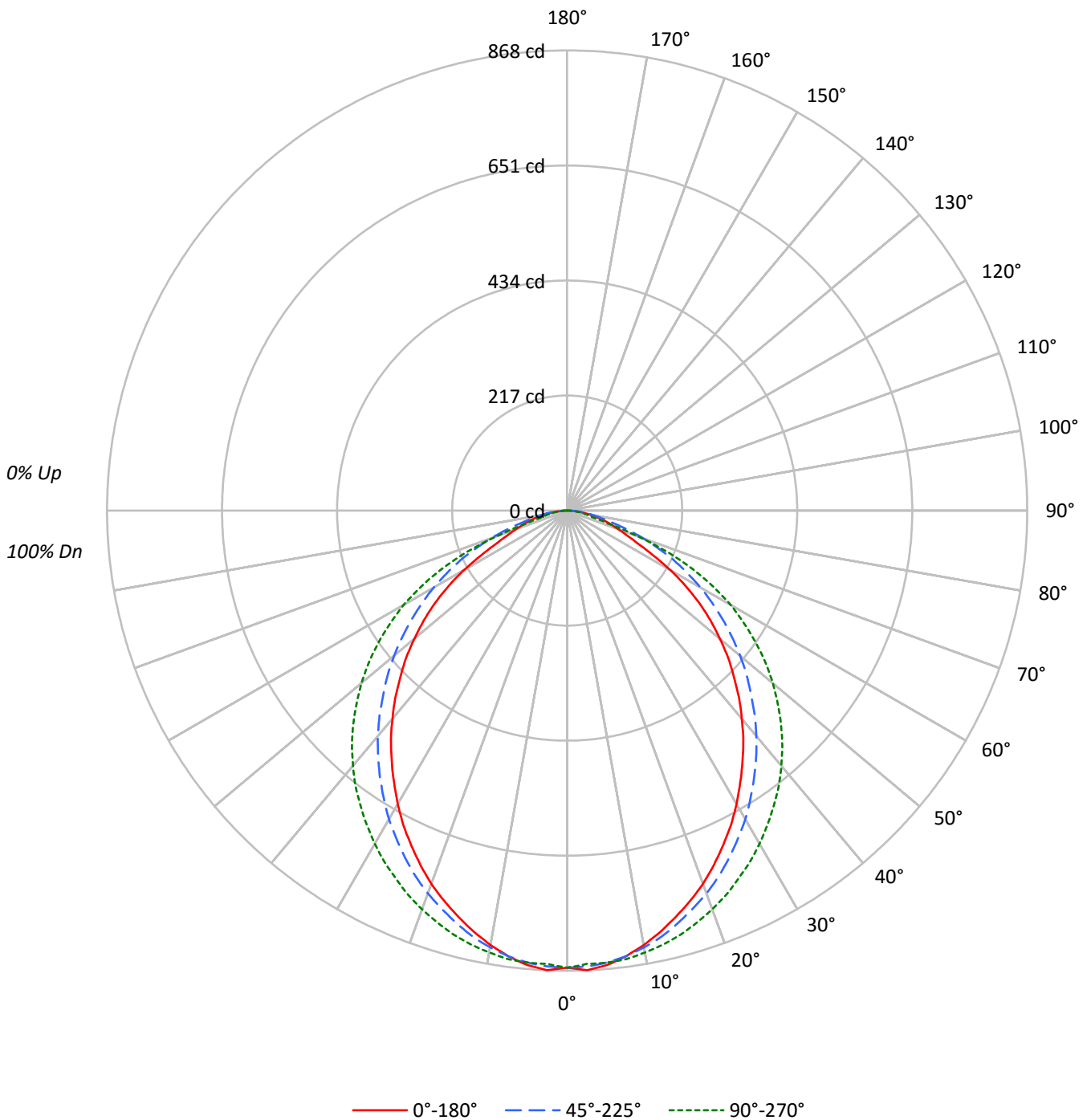
Input Watts (W): 23.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	10124	10124	10124
5°	10143	10060	10050
10°	9916	9921	10015
15°	9635	9711	9951
20°	9356	9491	9844
25°	9010	9230	9718
30°	8650	8947	9597
35°	8257	8620	9452
40°	7841	8288	9295
45°	7371	7885	9079
50°	6847	7491	8790
55°	6210	7011	8377
60°	5278	6466	7773
65°	4041	5778	6664
70°	3495	4808	4313
75°	3214	3567	2017
80°	2860	2859	1724
85°	2397	2414	1285



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.0	3.9
10°-20°	227.2	11.1
20°-30°	333.3	16.2
30°-40°	386.6	18.8
40°-50°	382.7	18.7
50°-60°	322.9	15.7
60°-70°	209.3	10.2
70°-80°	84.7	4.1
80°-90°	23.5	1.1
90°-100°	0.5	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°	641.6	31.3
0°-40°	1028.2	50.1
0°-60°	1733.8	84.5
0°-90°	2051.3	100.0
90°-120°	0.5	0.0
90°-150°	0.5	0.0
90°-180°	1.0	0.0
0°-180°	2051.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	862	862	862	862	862	
5°	861	852	856	855	856	81
15°	793	789	806	820	828	223
25°	696	696	723	745	765	321
35°	577	581	615	648	680	361
45°	445	455	490	532	571	344
55°	304	320	358	400	435	270
65°	146	169	222	250	262	152
75°	72	75	88	72	52	76
85°	18	22	25	20	14	20
90°	0	3	6	4	0	1
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°	862.2	862.2	862.2	862.2	862.2
2.5°	867.8	858.3	860.7	859.1	855.9
5°	860.7	851.9	855.9	855.1	855.9
7.5°	847.9	840.8	847.9	850.3	853.5
10°	832.0	826.5	836.8	842.4	846.4
12.5°	813.8	809.0	823.3	832.0	838.4
15°	793.1	789.1	805.8	820.1	828.1
17.5°	771.7	768.5	787.5	805.8	814.6
20°	749.4	746.2	768.5	786.8	800.3
22.5°	723.2	721.6	747.0	766.1	784.4
25°	696.2	696.2	723.2	745.4	765.3
27.5°	669.1	669.1	697.7	722.4	747.0
30°	638.9	641.3	672.3	699.3	725.6
32.5°	607.9	611.9	643.7	673.9	703.3
35°	577.0	580.9	615.1	647.7	679.5
37.5°	546.0	551.5	585.7	619.9	655.6
40°	512.6	519.7	555.5	591.3	628.6
42.5°	480.0	487.9	523.7	561.9	600.8
45°	445.0	454.6	490.3	531.7	570.6
47.5°	412.4	422.0	459.3	499.9	538.8
50°	375.9	387.8	426.0	468.1	506.2
52.5°	340.9	354.4	391.8	434.7	472.1
55°	304.4	320.3	358.4	400.5	434.7
57.5°	265.4	284.5	324.2	364.8	395.8
60°	225.7	248.7	290.9	328.2	356.0
62.5°	182.8	209.8	255.9	290.9	310.7
65°	146.2	169.3	222.5	249.5	262.3
67.5°	121.6	135.1	186.0	205.8	205.8
70°	102.5	109.7	152.6	157.4	140.7
72.5°	86.6	90.6	119.2	107.3	80.3
75°	71.5	74.7	88.2	72.3	51.7
77.5°	57.2	59.6	66.8	54.8	40.5
80°	42.9	46.1	50.1	42.1	31.8
82.5°	30.2	32.6	37.4	31.0	23.0
85°	18.3	21.5	24.6	19.9	14.3
87.5°	7.9	10.3	13.5	10.3	6.4
90°	0.0	3.2	5.6	4.0	0.0
92.5°	0.0	0.0	0.8	0.8	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)