

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: P256989

Luminaire Tested: **HGL-S-BF-50L830-UNV-12**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256989
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-50L830-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: 12242.9 lumens
Efficiency: N/A
Efficacy: 109.3 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

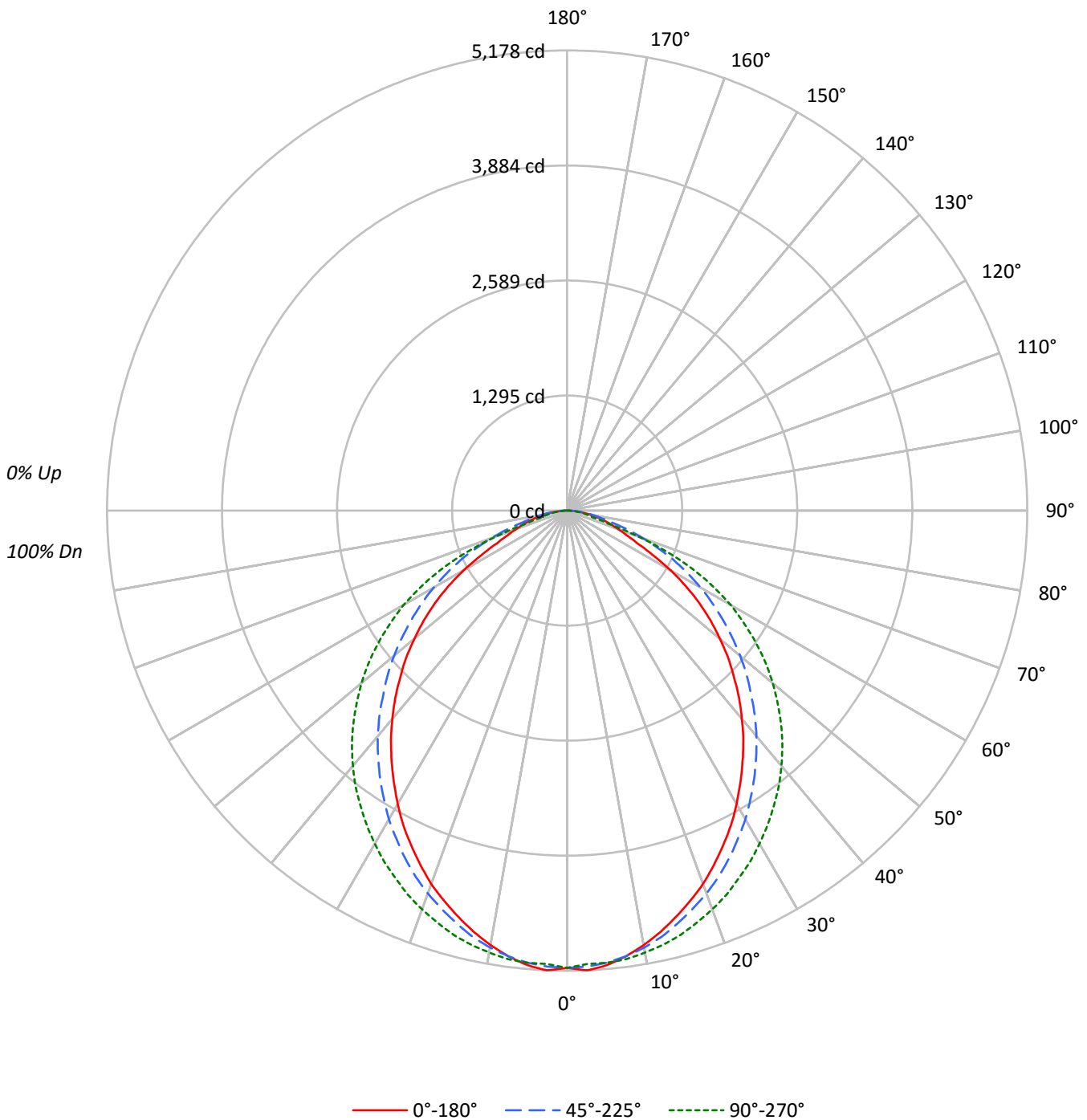
Input Watts (W): 112
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	20137	20137	20137
5°	20176	20010	19989
10°	19729	19736	19918
15°	19172	19321	19790
20°	18620	18883	19579
25°	17932	18366	19328
30°	17222	17807	19086
35°	16440	17159	18798
40°	15616	16500	18487
45°	14687	15701	18058
50°	13644	14918	17484
55°	12379	13966	16662
60°	10527	12884	15461
65°	8066	11520	13252
70°	6984	9590	8577
75°	6435	7123	4008
80°	5746	5714	3428
85°	4853	4856	2559



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	483.6	3.9
10°-20°	1355.9	11.1
20°-30°	1988.9	16.2
30°-40°	2306.5	18.8
40°-50°	2283.6	18.7
50°-60°	1927.0	15.7
60°-70°	1248.8	10.2
70°-80°	505.2	4.1
80°-90°	140.2	1.1
90°-100°	3.2	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°	3828.4	31.3
0°-40°	6134.9	50.1
0°-60°	10345.5	84.5
0°-90°	12239.6	100.0
90°-120°	3.2	0.0
90°-150°	3.2	0.0
90°-180°	3.0	0.0
0°-180°	12242.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5145	5145	5145	5145	5145	
5°	5135	5083	5107	5102	5107	484
15°	4732	4709	4808	4894	4941	1333
25°	4154	4154	4315	4448	4566	1912
35°	3442	3466	3670	3864	4054	2152
45°	2655	2712	2926	3172	3405	2050
55°	1816	1911	2138	2390	2594	1614
65°	872	1010	1328	1489	1565	906
75°	427	446	526	432	308	453
85°	109	128	147	118	85	120
90°	0	19	33	24	0	6
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°	5144.8	5144.8	5144.8	5144.8	5144.8
2.5°	5178.0	5121.1	5135.3	5125.9	5106.9
5°	5135.3	5083.2	5106.9	5102.2	5106.9
7.5°	5059.5	5016.8	5059.5	5073.7	5092.7
10°	4964.6	4931.4	4993.1	5026.3	5050.0
12.5°	4855.6	4827.1	4912.5	4964.6	5002.6
15°	4732.3	4708.6	4808.2	4893.5	4940.9
17.5°	4604.3	4585.3	4699.1	4808.2	4860.3
20°	4471.5	4452.5	4585.3	4694.4	4775.0
22.5°	4315.0	4305.5	4457.3	4571.1	4680.1
25°	4153.8	4153.8	4315.0	4447.8	4566.3
27.5°	3992.6	3992.6	4163.3	4310.3	4457.3
30°	3812.4	3826.6	4011.5	4172.8	4329.2
32.5°	3627.5	3651.2	3840.8	4021.0	4196.5
35°	3442.5	3466.2	3670.1	3864.5	4054.2
37.5°	3257.6	3290.8	3494.7	3698.6	3912.0
40°	3058.4	3101.1	3314.5	3527.9	3750.7
42.5°	2864.0	2911.5	3124.8	3352.4	3584.8
45°	2655.4	2712.3	2925.7	3172.2	3404.6
47.5°	2461.0	2517.9	2740.7	2982.6	3214.9
50°	2242.9	2314.0	2541.6	2792.9	3020.5
52.5°	2034.2	2114.8	2337.7	2593.8	2816.6
55°	1816.1	1910.9	2138.5	2389.9	2593.8
57.5°	1583.8	1697.6	1934.6	2176.5	2361.4
60°	1346.7	1484.2	1735.5	1958.4	2124.3
62.5°	1090.6	1251.8	1526.9	1735.5	1854.0
65°	872.5	1010.0	1327.7	1488.9	1564.8
67.5°	725.5	806.1	1109.6	1228.1	1228.1
70°	611.7	654.4	910.4	938.9	839.3
72.5°	516.9	540.6	711.3	640.1	478.9
75°	426.8	445.7	526.3	431.5	308.2
77.5°	341.4	355.6	398.3	327.2	241.8
80°	256.1	275.0	298.7	251.3	189.7
82.5°	180.2	194.4	222.9	184.9	137.5
85°	109.1	128.0	147.0	118.5	85.4
87.5°	47.4	61.6	80.6	61.6	37.9
90°	0.0	19.0	33.2	23.7	0.0
92.5°	0.0	0.0	4.7	4.7	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)