

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: P256988

Luminaire Tested: **HGL-S-BF-40L830-UNV-12**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256988
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-40L830-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: 9783.1 lumens
Efficiency: N/A
Efficacy: 114.2 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

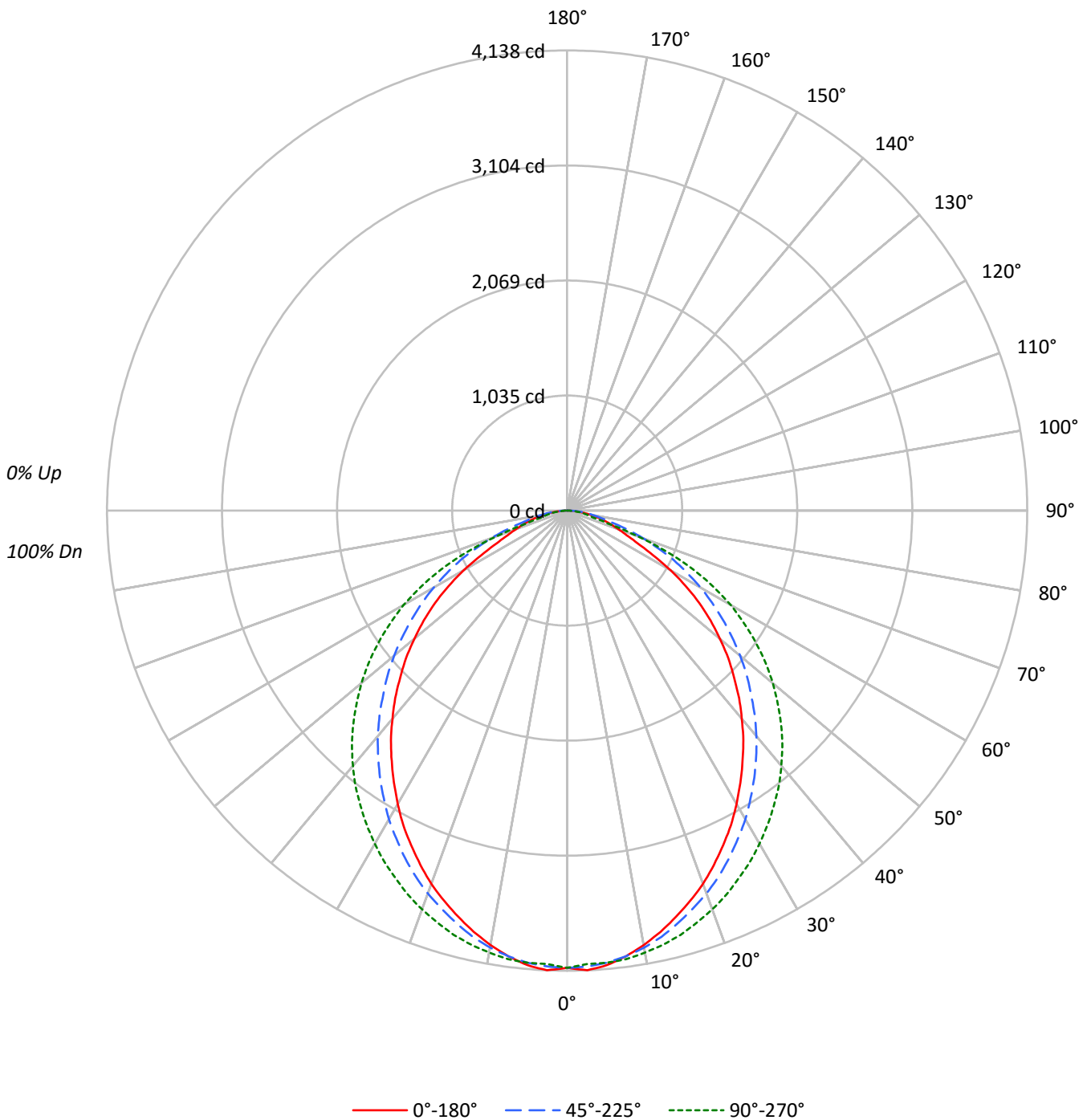
Input Watts (W): 85.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	16091	16091	16091
5°	16122	15990	15973
10°	15765	15771	15916
15°	15320	15439	15814
20°	14879	15089	15645
25°	14329	14676	15445
30°	13762	14229	15251
35°	13137	13711	15021
40°	12479	13185	14773
45°	11736	12547	14430
50°	10902	11920	13971
55°	9891	11161	13314
60°	8412	10296	12355
65°	6446	9205	10590
70°	5581	7664	6854
75°	5141	5693	3203
80°	4590	4566	2739
85°	3875	3882	2044



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	386.4	3.9
10°-20°	1083.5	11.1
20°-30°	1589.3	16.2
30°-40°	1843.1	18.8
40°-50°	1824.8	18.7
50°-60°	1539.8	15.7
60°-70°	997.9	10.2
70°-80°	403.7	4.1
80°-90°	112.0	1.1
90°-100°	2.6	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°	3059.2	31.3
0°-40°	4902.3	50.1
0°-60°	8266.9	84.5
0°-90°	9780.5	100.0
90°-120°	2.6	0.0
90°-150°	2.6	0.0
90°-180°	3.0	0.0
0°-180°	9783.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4111	4111	4111	4111	4111	
5°	4104	4062	4081	4077	4081	387
15°	3782	3762	3842	3910	3948	1065
25°	3319	3319	3448	3554	3649	1528
35°	2751	2770	2933	3088	3240	1720
45°	2122	2167	2338	2535	2720	1638
55°	1451	1527	1709	1910	2073	1289
65°	697	807	1061	1190	1250	724
75°	341	356	421	345	246	362
85°	87	102	118	95	68	96
90°	0	15	26	19	0	5
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°	4111.1	4111.1	4111.1	4111.1	4111.1
2.5°	4137.7	4092.2	4103.6	4096.0	4080.8
5°	4103.6	4061.9	4080.8	4077.0	4080.8
7.5°	4042.9	4008.8	4042.9	4054.3	4069.5
10°	3967.1	3940.6	3989.9	4016.4	4035.4
12.5°	3880.0	3857.3	3925.5	3967.1	3997.5
15°	3781.5	3762.5	3842.1	3910.3	3948.2
17.5°	3679.2	3664.0	3755.0	3842.1	3883.8
20°	3573.1	3557.9	3664.0	3751.2	3815.6
22.5°	3448.0	3440.5	3561.7	3652.7	3739.8
25°	3319.2	3319.2	3448.0	3554.1	3648.9
27.5°	3190.4	3190.4	3326.8	3444.3	3561.7
30°	3046.4	3057.8	3205.5	3334.4	3459.4
32.5°	2898.6	2917.6	3069.1	3213.1	3353.3
35°	2750.9	2769.8	2932.7	3088.1	3239.6
37.5°	2603.1	2629.6	2792.5	2955.5	3126.0
40°	2443.9	2478.0	2648.6	2819.1	2997.1
42.5°	2288.6	2326.5	2497.0	2678.9	2864.5
45°	2121.9	2167.3	2337.9	2534.9	2720.5
47.5°	1966.5	2012.0	2190.1	2383.3	2569.0
50°	1792.2	1849.1	2030.9	2231.8	2413.6
52.5°	1625.5	1689.9	1868.0	2072.6	2250.7
55°	1451.2	1527.0	1708.9	1909.7	2072.6
57.5°	1265.5	1356.5	1545.9	1739.2	1887.0
60°	1076.1	1186.0	1386.8	1564.9	1697.5
62.5°	871.5	1000.3	1220.1	1386.8	1481.5
65°	697.2	807.1	1060.9	1189.8	1250.4
67.5°	579.7	644.1	886.6	981.4	981.4
70°	488.8	522.9	727.5	750.2	670.7
72.5°	413.0	432.0	568.4	511.5	382.7
75°	341.0	356.2	420.6	344.8	246.3
77.5°	272.8	284.2	318.3	261.4	193.2
80°	204.6	219.8	238.7	200.8	151.6
82.5°	144.0	155.4	178.1	147.8	109.9
85°	87.1	102.3	117.5	94.7	68.2
87.5°	37.9	49.3	64.4	49.3	30.3
90°	0.0	15.2	26.5	18.9	0.0
92.5°	0.0	0.0	3.8	3.8	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)