

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: P256992

Luminaire Tested: **HGL-S-BF-30L835-UNV-12**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256992
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-30L835-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: 8035.7 lumens
Efficiency: N/A
Efficacy: 123.4 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

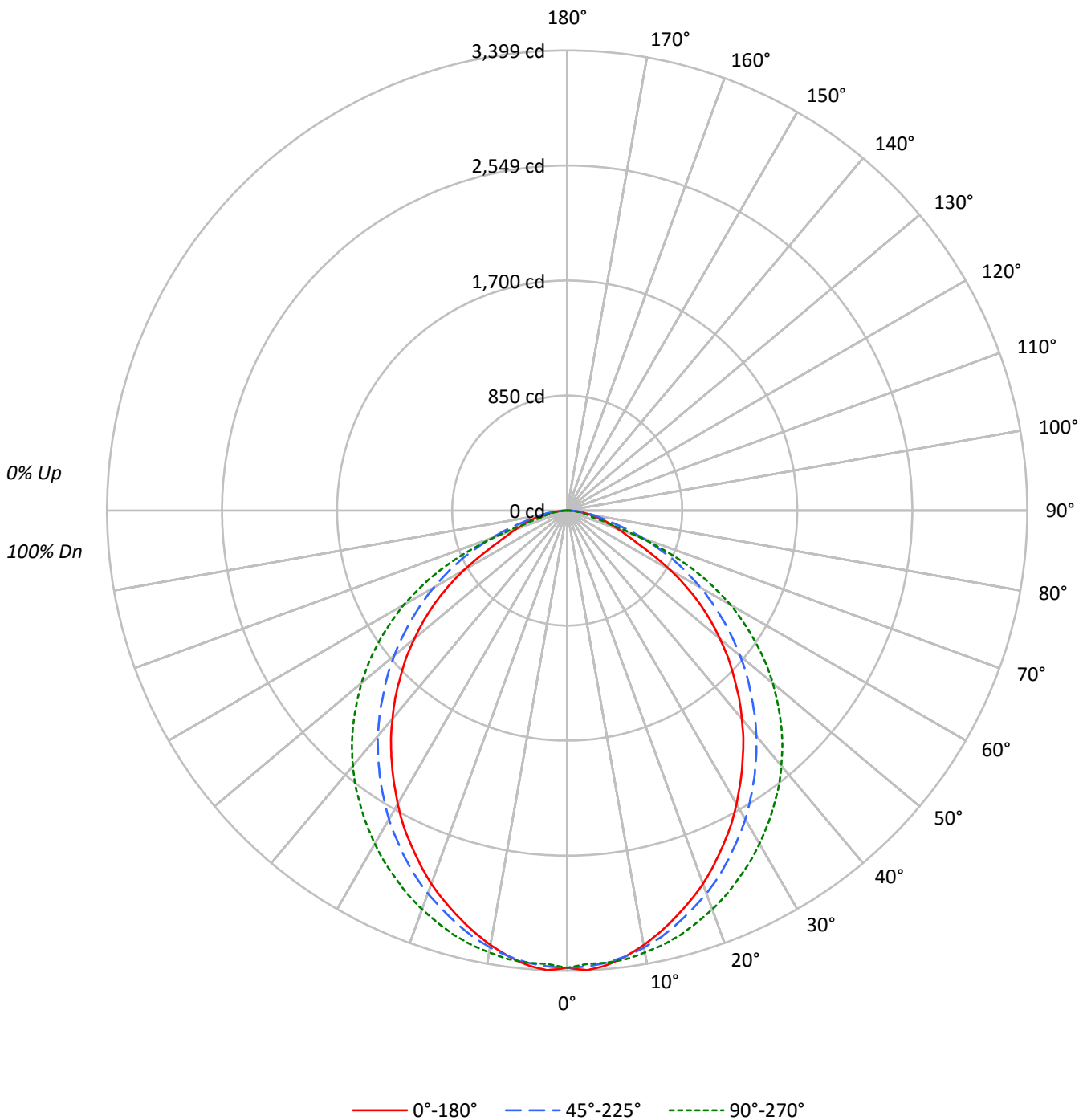
Input Watts (W): 65.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	13218	13218	13218
5°	13242	13134	13120
10°	12949	12954	13073
15°	12584	12682	12989
20°	12221	12394	12851
25°	11770	12055	12686
30°	11304	11688	12527
35°	10790	11262	12338
40°	10250	10830	12134
45°	9640	10306	11852
50°	8955	9791	11475
55°	8125	9167	10936
60°	6909	8457	10148
65°	5295	7561	8699
70°	4584	6295	5630
75°	4223	4676	2631
80°	3771	3751	2250
85°	3185	3188	1678



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	317.4	3.9
10°-20°	890.0	11.1
20°-30°	1305.4	16.2
30°-40°	1513.9	18.8
40°-50°	1498.9	18.7
50°-60°	1264.8	15.7
60°-70°	819.7	10.2
70°-80°	331.6	4.1
80°-90°	92.0	1.1
90°-100°	2.1	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°	2512.8	31.3
0°-40°	4026.7	50.1
0°-60°	6790.3	84.5
0°-90°	8033.6	100.0
90°-120°	2.1	0.0
90°-150°	2.1	0.0
90°-180°	2.0	0.0
0°-180°	8035.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3377	3377	3377	3377	3377	
5°	3371	3336	3352	3349	3352	318
15°	3106	3090	3156	3212	3243	875
25°	2726	2726	2832	2919	2997	1255
35°	2260	2275	2409	2536	2661	1413
45°	1743	1780	1920	2082	2235	1345
55°	1192	1254	1404	1569	1702	1059
65°	573	663	871	977	1027	594
75°	280	293	346	283	202	297
85°	72	84	96	78	56	79
90°	0	12	22	16	0	4
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°	3376.9	3376.9	3376.9	3376.9	3376.9
2.5°	3398.6	3361.3	3370.6	3364.4	3352.0
5°	3370.6	3336.4	3352.0	3348.8	3352.0
7.5°	3320.8	3292.8	3320.8	3330.2	3342.6
10°	3258.6	3236.8	3277.3	3299.1	3314.6
12.5°	3187.0	3168.3	3224.4	3258.6	3283.5
15°	3106.1	3090.5	3155.9	3211.9	3243.0
17.5°	3022.1	3009.6	3084.3	3155.9	3190.1
20°	2934.9	2922.5	3009.6	3081.2	3134.1
22.5°	2832.2	2826.0	2925.6	3000.3	3071.9
25°	2726.4	2726.4	2832.2	2919.3	2997.2
27.5°	2620.6	2620.6	2732.6	2829.1	2925.6
30°	2502.3	2511.6	2633.0	2738.8	2841.5
32.5°	2380.9	2396.5	2521.0	2639.2	2754.4
35°	2259.5	2275.1	2408.9	2536.5	2661.0
37.5°	2138.2	2159.9	2293.8	2427.6	2567.7
40°	2007.4	2035.5	2175.5	2315.6	2461.8
42.5°	1879.8	1911.0	2051.0	2200.4	2352.9
45°	1742.9	1780.2	1920.3	2082.1	2234.6
47.5°	1615.3	1652.6	1798.9	1957.6	2110.1
50°	1472.1	1518.8	1668.2	1833.2	1982.5
52.5°	1335.2	1388.1	1534.4	1702.4	1848.7
55°	1192.0	1254.3	1403.7	1568.6	1702.4
57.5°	1039.5	1114.2	1269.8	1428.6	1549.9
60°	883.9	974.2	1139.1	1285.4	1394.3
62.5°	715.8	821.7	1002.2	1139.1	1216.9
65°	572.7	662.9	871.4	977.3	1027.1
67.5°	476.2	529.1	728.3	806.1	806.1
70°	401.5	429.5	597.6	616.2	550.9
72.5°	339.2	354.8	466.8	420.2	314.3
75°	280.1	292.6	345.5	283.2	202.3
77.5°	224.1	233.4	261.4	214.7	158.7
80°	168.1	180.5	196.1	165.0	124.5
82.5°	118.3	127.6	146.3	121.4	90.3
85°	71.6	84.0	96.5	77.8	56.0
87.5°	31.1	40.5	52.9	40.5	24.9
90°	0.0	12.4	21.8	15.6	0.0
92.5°	0.0	0.0	3.1	3.1	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

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