

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: P256938

Luminaire Tested: **HGL-S-BF-30L835-UNV-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256938
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-4
Description: HUGO 4 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH FROSTED LENS
Light Source: (168) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2678.6 lumens
Efficiency: N/A
Efficacy: 115.5 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

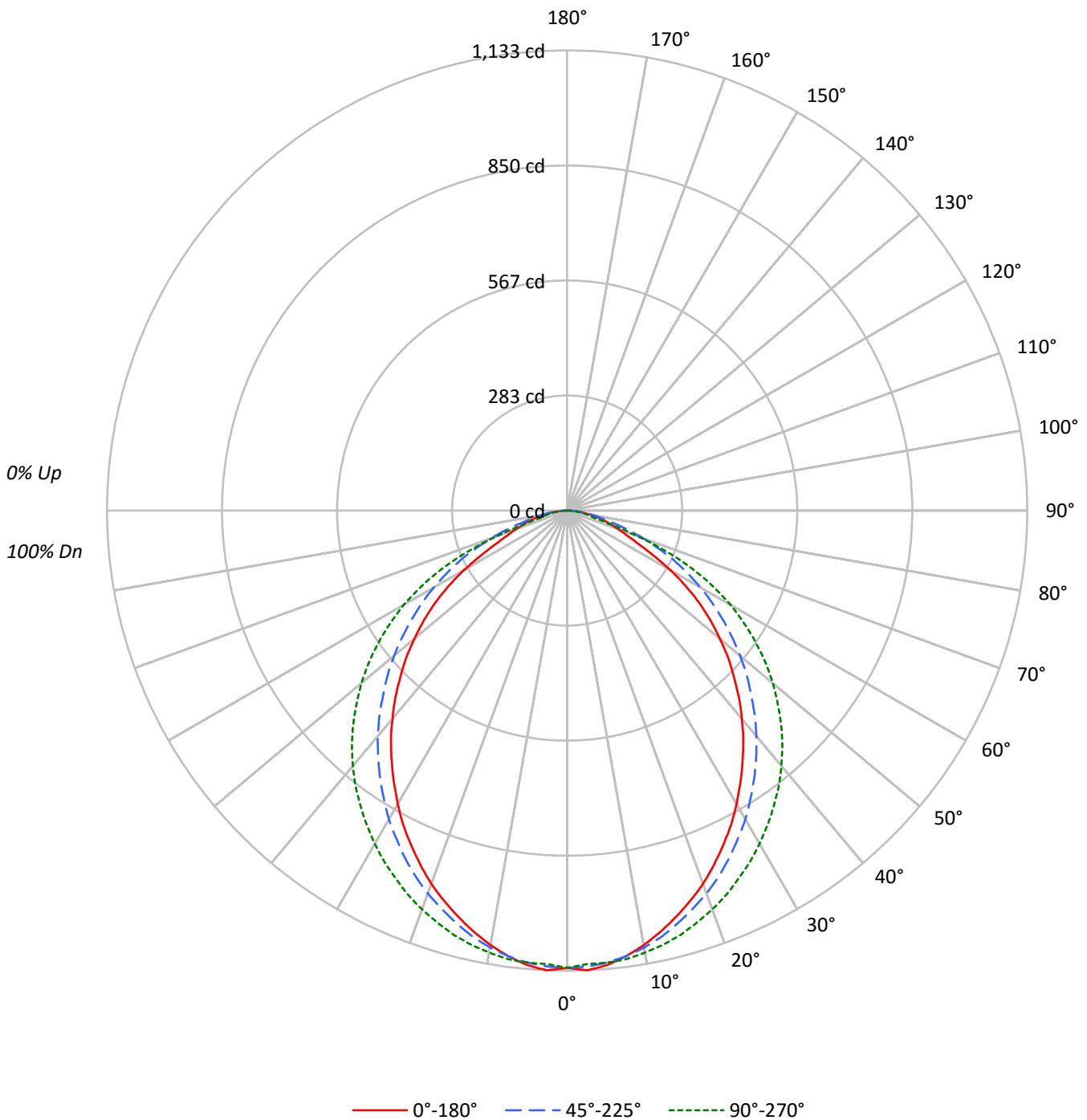
Input Watts (W): 23.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P256938

CATALOG NUMBER: HGL-S-BF-30L835-UNV-4

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°	13217	13217	13217
5°	13240	13132	13120
10°	12946	12951	13074
15°	12579	12678	12989
20°	12214	12389	12851
25°	11761	12049	12687
30°	11293	11681	12527
35°	10778	11254	12338
40°	10235	10820	12134
45°	9624	10294	11853
50°	8937	9779	11475
55°	8105	9153	10936
60°	6889	8440	10149
65°	5276	7544	8699
70°	4562	6276	5629
75°	4198	4659	2630
80°	3734	3732	2250
85°	3131	3160	1681



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.8	3.9
10°-20°	296.7	11.1
20°-30°	435.2	16.2
30°-40°	504.6	18.8
40°-50°	499.6	18.7
50°-60°	421.6	15.7
60°-70°	273.2	10.2
70°-80°	110.5	4.1
80°-90°	30.7	1.1
90°-100°	0.7	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°	837.6	31.3
0°-40°	1342.2	50.1
0°-60°	2263.5	84.5
0°-90°	2677.9	100.0
90°-120°	0.7	0.0
90°-150°	0.7	0.0
90°-180°	1.0	0.0
0°-180°	2678.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1126	1126	1126	1126	1126	
5°	1124	1112	1117	1116	1117	106
15°	1035	1030	1052	1071	1081	292
25°	909	909	944	973	999	418
35°	753	758	803	846	887	471
45°	581	593	640	694	745	448
55°	397	418	468	523	568	353
65°	191	221	290	326	342	198
75°	93	98	115	94	67	99
85°	24	28	32	26	19	26
90°	0	4	7	5	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



TEST NUMBER: P256938

CATALOG NUMBER: HGL-S-BF-30L835-UNV-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1125.6	1125.6	1125.6	1125.6	1125.6
2.5°	1132.9	1120.4	1123.5	1121.5	1117.3
5°	1123.5	1112.1	1117.3	1116.3	1117.3
7.5°	1106.9	1097.6	1106.9	1110.1	1114.2
10°	1086.2	1078.9	1092.4	1099.7	1104.9
12.5°	1062.3	1056.1	1074.8	1086.2	1094.5
15°	1035.4	1030.2	1052.0	1070.6	1081.0
17.5°	1007.4	1003.2	1028.1	1052.0	1063.4
20°	978.3	974.2	1003.2	1027.1	1044.7
22.5°	944.1	942.0	975.2	1000.1	1024.0
25°	908.8	908.8	944.1	973.1	999.1
27.5°	873.5	873.5	910.9	943.0	975.2
30°	834.1	837.2	877.7	912.9	947.2
32.5°	793.6	798.8	840.3	879.7	918.1
35°	753.2	758.4	803.0	845.5	887.0
37.5°	712.7	720.0	764.6	809.2	855.9
40°	669.1	678.5	725.2	771.9	820.6
42.5°	626.6	637.0	683.7	733.5	784.3
45°	581.0	593.4	640.1	694.0	744.9
47.5°	538.4	550.9	599.6	652.5	703.4
50°	490.7	506.3	556.1	611.1	660.8
52.5°	445.1	462.7	511.5	567.5	616.2
55°	397.3	418.1	467.9	522.9	567.5
57.5°	346.5	371.4	423.3	476.2	516.6
60°	294.6	324.7	379.7	428.5	464.8
62.5°	238.6	273.9	334.1	379.7	405.6
65°	190.9	221.0	290.5	325.8	342.4
67.5°	158.7	176.4	242.8	268.7	268.7
70°	133.8	143.2	199.2	205.4	183.6
72.5°	113.1	118.3	155.6	140.1	104.8
75°	93.4	97.5	115.2	94.4	67.4
77.5°	74.7	77.8	87.1	71.6	52.9
80°	56.0	60.2	65.4	55.0	41.5
82.5°	39.4	42.5	48.8	40.5	30.1
85°	23.9	28.0	32.2	25.9	18.7
87.5°	10.4	13.5	17.6	13.5	8.3
90°	0.0	4.1	7.3	5.2	0.0
92.5°	0.0	0.0	1.0	1.0	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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CATALOG NUMBER: HGL-S-BF-30L835-UNV-4

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)