

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: P256969

Luminaire Tested: **HGL-S-BF-50L835-UNV-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256969
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-50L835-UNV-8
Description: HUGO 8 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH FROSTED LENS
Light Source: (336) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8467.5 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.25 / 1.28
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 8' x H: 0.01')
CIE Type: Direct

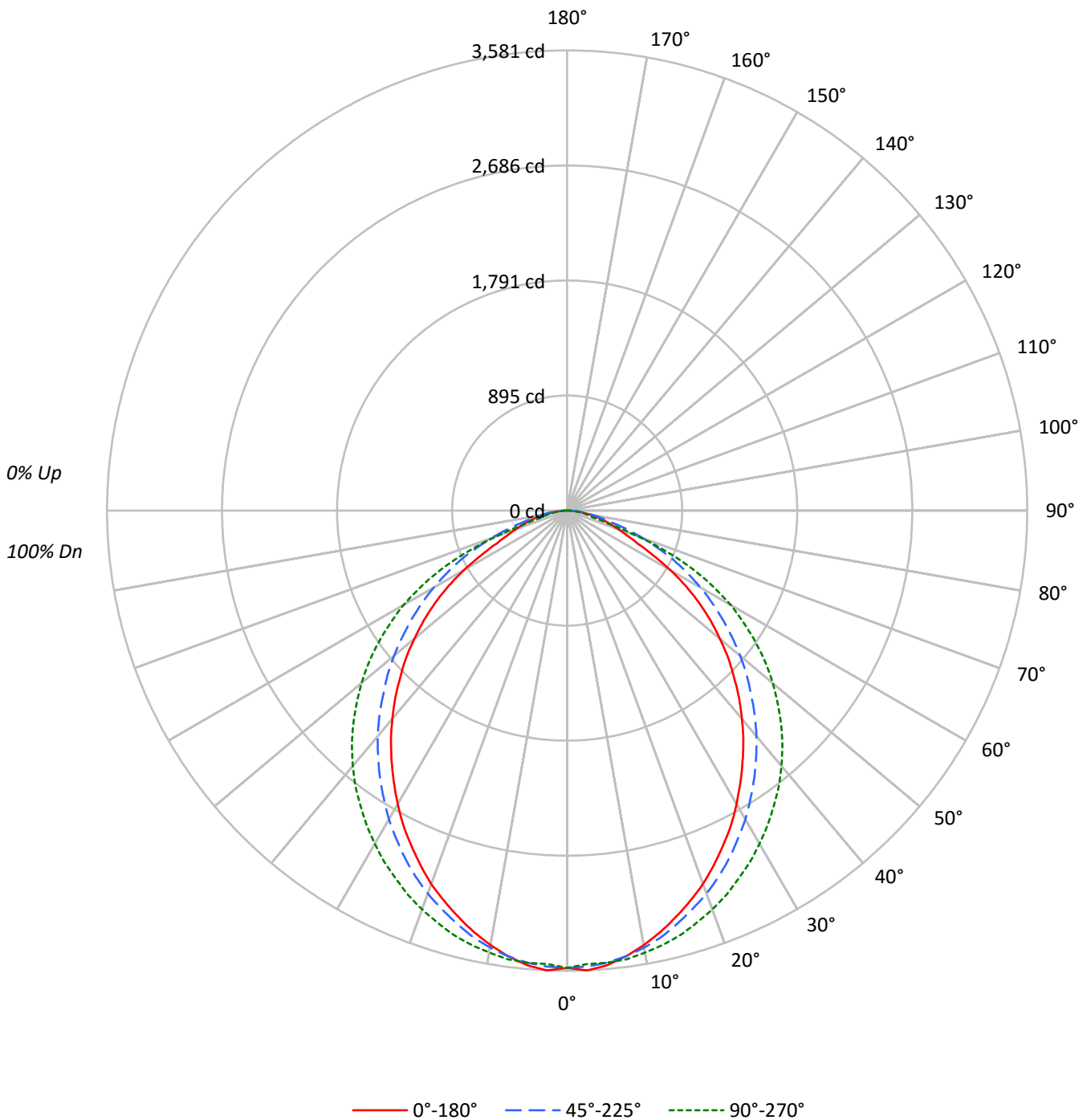
Input Watts (W): 74.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	20892	20892	20892
5°	20930	20759	20738
10°	20466	20473	20664
15°	19888	20042	20531
20°	19314	19588	20311
25°	18600	19051	20051
30°	17863	18471	19800
35°	17050	17798	19502
40°	16195	17114	19180
45°	15230	16285	18734
50°	14148	15471	18139
55°	12835	14484	17285
60°	10913	13360	16040
65°	8360	11944	13748
70°	7238	9943	8898
75°	6665	7383	4159
80°	5946	5920	3556
85°	5008	5027	2652



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	334.4	3.9
10°-20°	937.8	11.1
20°-30°	1375.6	16.2
30°-40°	1595.2	18.8
40°-50°	1579.4	18.7
50°-60°	1332.7	15.7
60°-70°	863.7	10.2
70°-80°	349.4	4.1
80°-90°	96.9	1.1
90°-100°	2.3	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°	2647.8	31.3
0°-40°	4243.0	50.1
0°-60°	7155.2	84.5
0°-90°	8465.2	100.0
90°-120°	2.3	0.0
90°-150°	2.3	0.0
90°-180°	2.0	0.0
0°-180°	8467.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3558	3558	3558	3558	3558	
5°	3552	3516	3532	3529	3532	335
15°	3273	3257	3325	3384	3417	922
25°	2873	2873	2984	3076	3158	1323
35°	2381	2397	2538	2673	2804	1489
45°	1836	1876	2024	2194	2355	1418
55°	1256	1322	1479	1653	1794	1116
65°	603	698	918	1030	1082	626
75°	295	308	364	298	213	313
85°	75	88	102	82	59	83
90°	0	13	23	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°	3558.3	3558.3	3558.3	3558.3	3558.3
2.5°	3581.2	3541.9	3551.7	3545.2	3532.1
5°	3551.7	3515.7	3532.1	3528.8	3532.1
7.5°	3499.3	3469.7	3499.3	3509.1	3522.2
10°	3433.7	3410.7	3453.3	3476.3	3492.7
12.5°	3358.2	3338.6	3397.6	3433.7	3459.9
15°	3273.0	3256.6	3325.4	3384.5	3417.3
17.5°	3184.4	3171.3	3250.0	3325.4	3361.5
20°	3092.6	3079.5	3171.3	3246.7	3302.5
22.5°	2984.4	2977.8	3082.8	3161.5	3236.9
25°	2872.9	2872.9	2984.4	3076.2	3158.2
27.5°	2761.4	2761.4	2879.4	2981.1	3082.8
30°	2636.7	2646.6	2774.5	2886.0	2994.2
32.5°	2508.8	2525.2	2656.4	2781.0	2902.4
35°	2380.9	2397.3	2538.4	2672.8	2804.0
37.5°	2253.0	2276.0	2417.0	2558.0	2705.6
40°	2115.3	2144.8	2292.4	2440.0	2594.1
42.5°	1980.8	2013.6	2161.2	2318.6	2479.3
45°	1836.5	1875.9	2023.5	2194.0	2354.7
47.5°	1702.1	1741.4	1895.6	2062.8	2223.5
50°	1551.2	1600.4	1757.8	1931.6	2089.1
52.5°	1406.9	1462.7	1616.8	1793.9	1948.0
55°	1256.1	1321.6	1479.1	1652.9	1793.9
57.5°	1095.4	1174.1	1338.0	1505.3	1633.2
60°	931.4	1026.5	1200.3	1354.4	1469.2
62.5°	754.3	865.8	1056.0	1200.3	1282.3
65°	603.4	698.5	918.3	1029.8	1082.2
67.5°	501.8	557.5	767.4	849.4	849.4
70°	423.1	452.6	629.7	649.3	580.5
72.5°	357.5	373.9	491.9	442.7	331.2
75°	295.2	308.3	364.0	298.4	213.2
77.5°	236.1	246.0	275.5	226.3	167.3
80°	177.1	190.2	206.6	173.8	131.2
82.5°	124.6	134.5	154.1	127.9	95.1
85°	75.4	88.5	101.7	82.0	59.0
87.5°	32.8	42.6	55.8	42.6	26.2
90°	0.0	13.1	23.0	16.4	0.0
92.5°	0.0	0.0	3.3	3.3	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)