

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: P256940

Luminaire Tested: **HGL-S-BF-50L835-UNV-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256940
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-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: 4233.7 lumens
Efficiency: N/A
Efficacy: 110.0 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

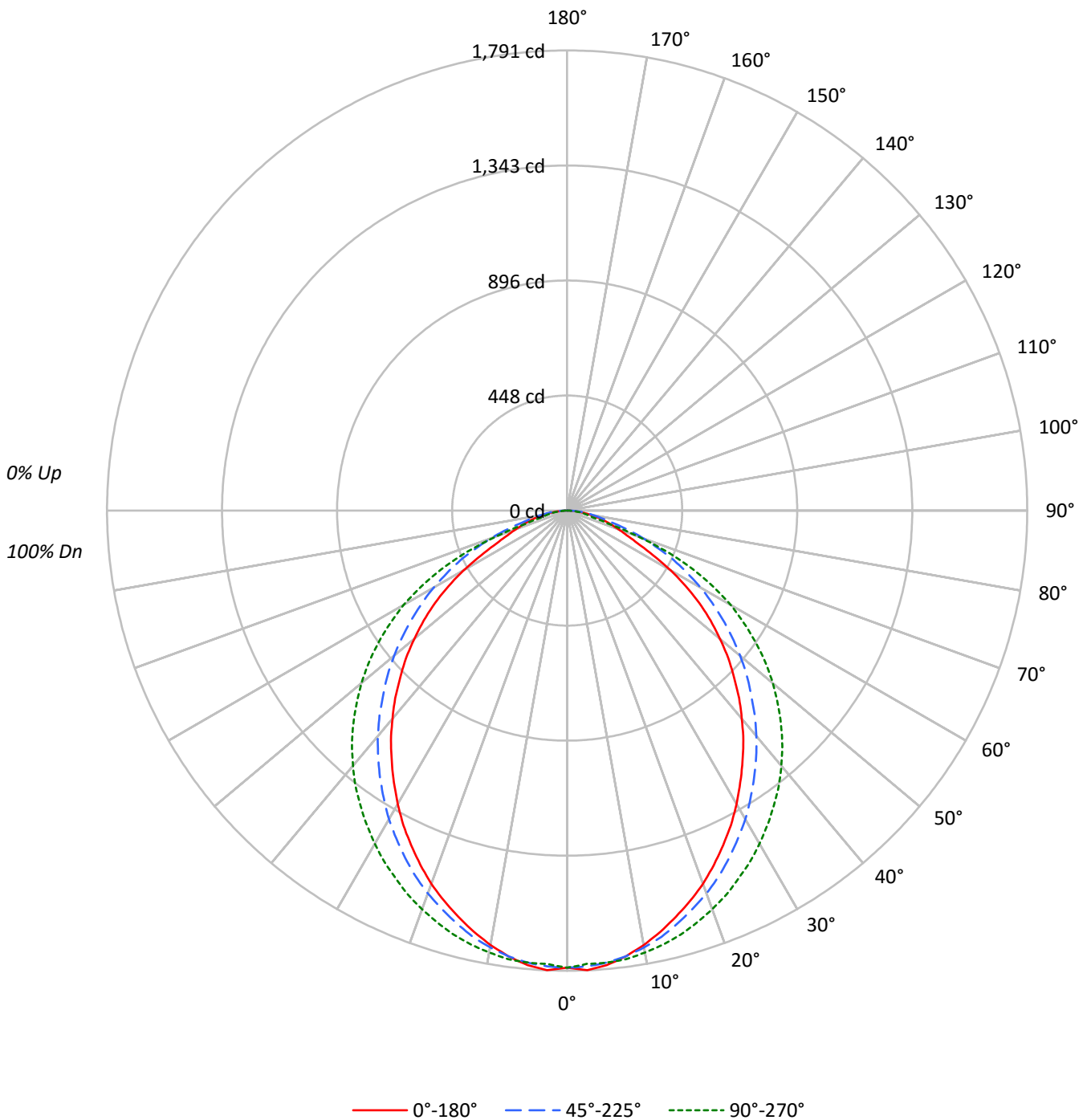
Input Watts (W): 38.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	20891	20891	20891
5°	20928	20757	20737
10°	20461	20471	20663
15°	19881	20038	20531
20°	19305	19582	20311
25°	18589	19044	20051
30°	17850	18461	19800
35°	17036	17787	19502
40°	16178	17102	19181
45°	15212	16270	18735
50°	14127	15455	18138
55°	12811	14465	17286
60°	10890	13342	16040
65°	8338	11922	13748
70°	7212	9919	8897
75°	6635	7361	4159
80°	5901	5895	3556
85°	4938	4985	2652



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.2	3.9
10°-20°	468.9	11.1
20°-30°	687.8	16.2
30°-40°	797.6	18.8
40°-50°	789.7	18.7
50°-60°	666.4	15.7
60°-70°	431.9	10.2
70°-80°	174.7	4.1
80°-90°	48.5	1.1
90°-100°	1.1	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°	1323.9	31.3
0°-40°	2121.5	50.1
0°-60°	3577.6	84.5
0°-90°	4232.6	100.0
90°-120°	1.1	0.0
90°-150°	1.1	0.0
90°-180°	1.0	0.0
0°-180°	4233.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1779	1779	1779	1779	1779	
5°	1776	1758	1766	1764	1766	168
15°	1636	1628	1663	1692	1709	461
25°	1436	1436	1492	1538	1579	661
35°	1190	1199	1269	1336	1402	744
45°	918	938	1012	1097	1177	709
55°	628	661	740	826	897	558
65°	302	349	459	515	541	313
75°	148	154	182	149	107	157
85°	38	44	51	41	30	41
90°	0	7	12	8	0	2
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°	1779.1	1779.1	1779.1	1779.1	1779.1
2.5°	1790.6	1770.9	1775.9	1772.6	1766.0
5°	1775.9	1757.8	1766.0	1764.4	1766.0
7.5°	1749.6	1734.9	1749.6	1754.5	1761.1
10°	1716.8	1705.4	1726.7	1738.2	1746.3
12.5°	1679.1	1669.3	1698.8	1716.8	1730.0
15°	1636.5	1628.3	1662.7	1692.2	1708.6
17.5°	1592.2	1585.7	1625.0	1662.7	1680.8
20°	1546.3	1539.7	1585.7	1623.4	1651.2
22.5°	1492.2	1488.9	1541.4	1580.7	1618.4
25°	1436.4	1436.4	1492.2	1538.1	1579.1
27.5°	1380.7	1380.7	1439.7	1490.5	1541.4
30°	1318.4	1323.3	1387.2	1443.0	1497.1
32.5°	1254.4	1262.6	1328.2	1390.5	1451.2
35°	1190.5	1198.7	1269.2	1336.4	1402.0
37.5°	1126.5	1138.0	1208.5	1279.0	1352.8
40°	1057.6	1072.4	1146.2	1220.0	1297.1
42.5°	990.4	1006.8	1080.6	1159.3	1239.7
45°	918.3	937.9	1011.7	1097.0	1177.4
47.5°	851.0	870.7	947.8	1031.4	1111.8
50°	775.6	800.2	878.9	965.8	1044.5
52.5°	703.5	731.3	808.4	897.0	974.0
55°	628.0	660.8	739.5	826.4	897.0
57.5°	547.7	587.0	669.0	752.7	816.6
60°	465.7	513.2	600.2	677.2	734.6
62.5°	377.1	432.9	528.0	600.2	641.1
65°	301.7	349.3	459.1	514.9	541.1
67.5°	250.9	278.8	383.7	424.7	424.7
70°	211.5	226.3	314.8	324.7	290.2
72.5°	178.7	186.9	246.0	221.4	165.6
75°	147.6	154.1	182.0	149.2	106.6
77.5°	118.1	123.0	137.7	113.1	83.6
80°	88.5	95.1	103.3	86.9	65.6
82.5°	62.3	67.2	77.1	64.0	47.6
85°	37.7	44.3	50.8	41.0	29.5
87.5°	16.4	21.3	27.9	21.3	13.1
90°	0.0	6.6	11.5	8.2	0.0
92.5°	0.0	0.0	1.6	1.6	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)