

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: P256984

Luminaire Tested: **HGL-S-BF-50L940-UNV-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256984
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-50L940-UNV-8
Description: HUGO 8 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH FROSTED LENS
Light Source: (336) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6486.3 lumens
Efficiency: N/A
Efficacy: 86.9 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

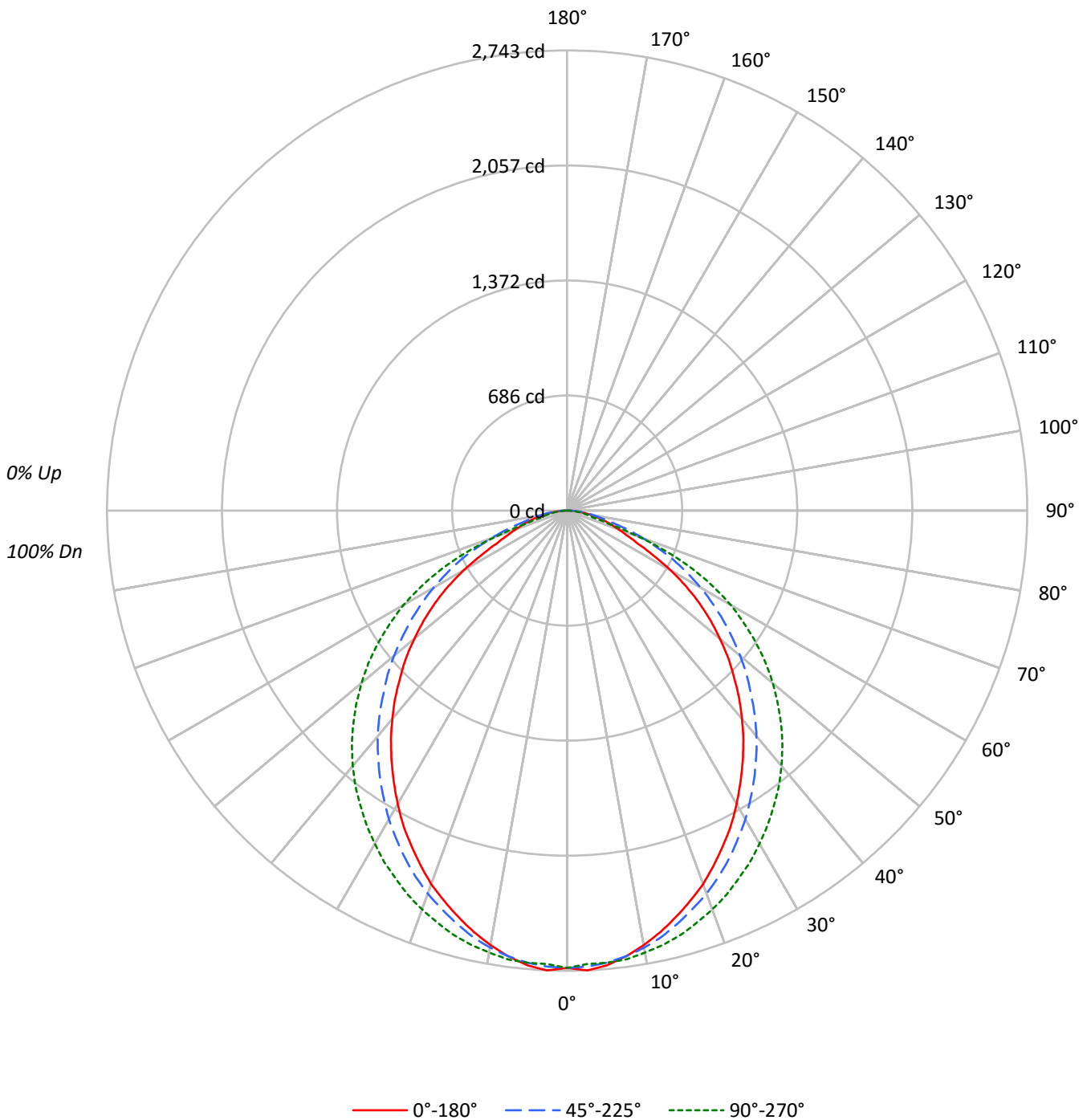
Input Watts (W): 74.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	16003	16003	16003
5°	16033	15902	15885
10°	15678	15683	15829
15°	15234	15353	15727
20°	14795	15005	15559
25°	14248	14594	15359
30°	13683	14149	15167
35°	13061	13633	14938
40°	12406	13109	14692
45°	11666	12474	14350
50°	10838	11851	13895
55°	9832	11095	13241
60°	8360	10235	12287
65°	6404	9149	10531
70°	5545	7615	6817
75°	5105	5657	3186
80°	4556	4536	2724
85°	3839	3851	2032



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.2	3.9
10°-20°	718.4	11.1
20°-30°	1053.7	16.2
30°-40°	1222.0	18.8
40°-50°	1209.9	18.7
50°-60°	1020.9	15.7
60°-70°	661.6	10.2
70°-80°	267.6	4.1
80°-90°	74.3	1.1
90°-100°	1.7	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°	2028.3	31.3
0°-40°	3250.3	50.1
0°-60°	5481.0	84.5
0°-90°	6484.5	100.0
90°-120°	1.7	0.0
90°-150°	1.7	0.0
90°-180°	2.0	0.0
0°-180°	6486.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2726	2726	2726	2726	2726	
5°	2721	2693	2706	2703	2706	257
15°	2507	2495	2547	2593	2618	706
25°	2201	2201	2286	2356	2419	1013
35°	1824	1836	1944	2047	2148	1140
45°	1407	1437	1550	1681	1804	1086
55°	962	1012	1133	1266	1374	855
65°	462	535	703	789	829	480
75°	226	236	279	229	163	240
85°	58	68	78	63	45	64
90°	0	10	18	13	0	3
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°	2725.7	2725.7	2725.7	2725.7	2725.7
2.5°	2743.3	2713.2	2720.7	2715.7	2705.6
5°	2720.7	2693.1	2705.6	2703.1	2705.6
7.5°	2680.5	2657.9	2680.5	2688.0	2698.1
10°	2630.3	2612.7	2645.3	2662.9	2675.5
12.5°	2572.5	2557.4	2602.6	2630.3	2650.4
15°	2507.2	2494.6	2547.4	2592.6	2617.7
17.5°	2439.3	2429.3	2489.6	2547.4	2575.0
20°	2369.0	2358.9	2429.3	2487.1	2529.8
22.5°	2286.1	2281.1	2361.5	2421.7	2479.5
25°	2200.7	2200.7	2286.1	2356.4	2419.2
27.5°	2115.3	2115.3	2205.7	2283.6	2361.5
30°	2019.8	2027.3	2125.3	2210.7	2293.6
32.5°	1921.8	1934.4	2034.9	2130.3	2223.3
35°	1823.8	1836.4	1944.4	2047.4	2147.9
37.5°	1725.9	1743.5	1851.5	1959.5	2072.5
40°	1620.4	1643.0	1756.0	1869.1	1987.1
42.5°	1517.4	1542.5	1655.5	1776.1	1899.2
45°	1406.8	1437.0	1550.0	1680.6	1803.7
47.5°	1303.8	1334.0	1452.0	1580.2	1703.3
50°	1188.3	1225.9	1346.5	1479.7	1600.3
52.5°	1077.7	1120.4	1238.5	1374.2	1492.2
55°	962.2	1012.4	1133.0	1266.1	1374.2
57.5°	839.1	899.4	1025.0	1153.1	1251.1
60°	713.5	786.3	919.5	1037.5	1125.5
62.5°	577.8	663.2	808.9	919.5	982.3
65°	462.2	535.1	703.4	788.8	829.0
67.5°	384.4	427.1	587.9	650.7	650.7
70°	324.1	346.7	482.3	497.4	444.7
72.5°	273.8	286.4	376.8	339.1	253.7
75°	226.1	236.1	278.9	228.6	163.3
77.5°	180.9	188.4	211.0	173.3	128.1
80°	135.7	145.7	158.3	133.1	100.5
82.5°	95.5	103.0	118.1	98.0	72.9
85°	57.8	67.8	77.9	62.8	45.2
87.5°	25.1	32.7	42.7	32.7	20.1
90°	0.0	10.0	17.6	12.6	0.0
92.5°	0.0	0.0	2.5	2.5	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)