

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: P256952

Luminaire Tested: **HGL-S-BF-50L930-UNV-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256952
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-50L930-UNV-4
Description: HUGO 4 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH FROSTED LENS
Light Source: (168) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3135.6 lumens
Efficiency: N/A
Efficacy: 81.4 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

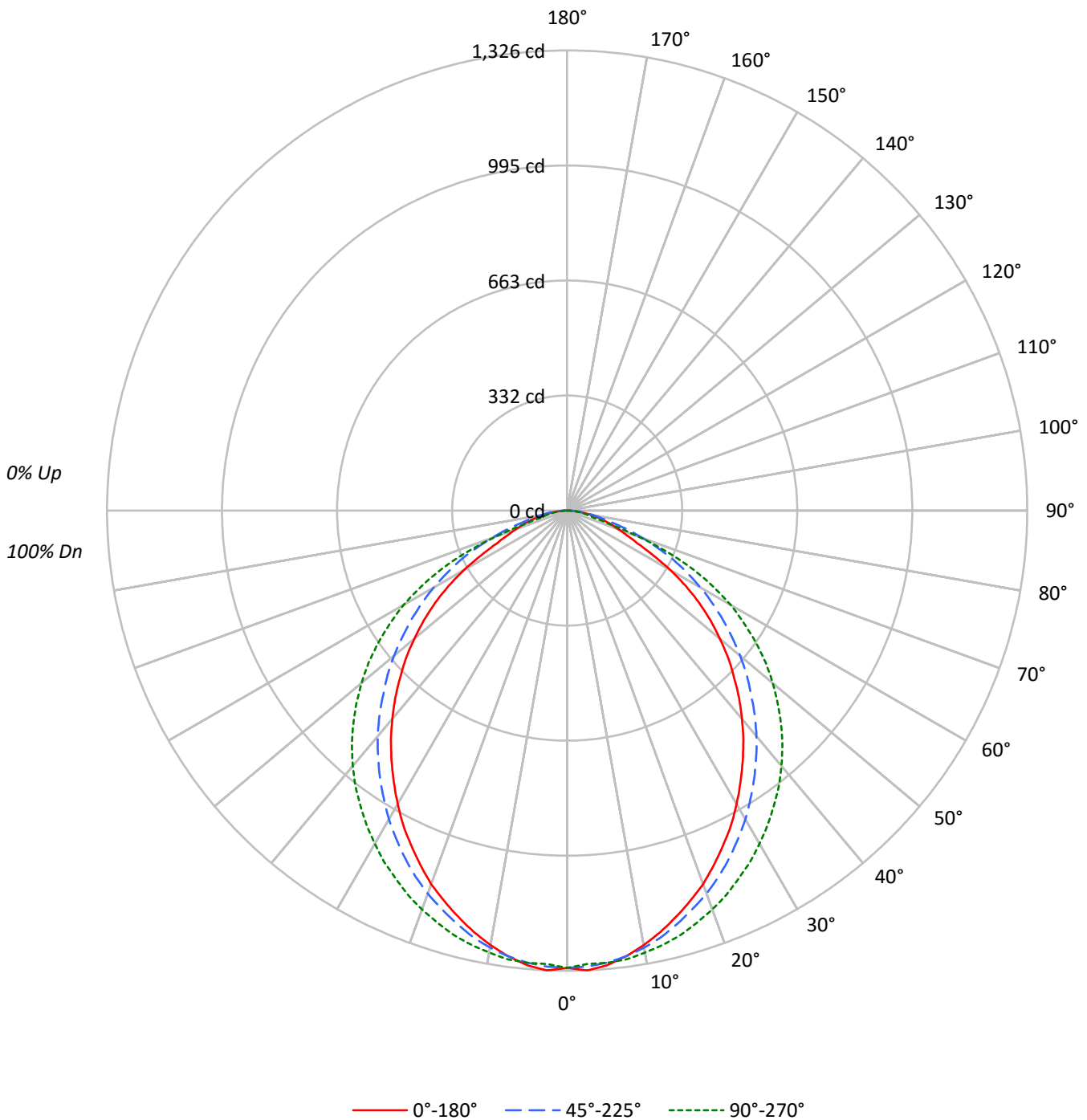
Input Watts (W): 38.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	15473	15473	15473
5°	15499	15374	15359
10°	15154	15161	15304
15°	14724	14841	15206
20°	14297	14503	15044
25°	13768	14104	14850
30°	13220	13673	14665
35°	12617	13174	14444
40°	11982	12666	14205
45°	11266	12050	13875
50°	10462	11446	13434
55°	9488	10714	12802
60°	8065	9881	11880
65°	6177	8829	10183
70°	5343	7348	6591
75°	4913	5452	3078
80°	4374	4365	2634
85°	3655	3690	1969



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.8	3.9
10°-20°	347.3	11.1
20°-30°	509.4	16.2
30°-40°	590.7	18.8
40°-50°	584.9	18.7
50°-60°	493.5	15.7
60°-70°	319.8	10.2
70°-80°	129.4	4.1
80°-90°	35.9	1.1
90°-100°	0.8	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°	980.5	31.3
0°-40°	1571.3	50.1
0°-60°	2649.7	84.5
0°-90°	3134.8	100.0
90°-120°	0.8	0.0
90°-150°	0.8	0.0
90°-180°	1.0	0.0
0°-180°	3135.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1318	1318	1318	1318	1318	
5°	1315	1302	1308	1307	1308	124
15°	1212	1206	1232	1253	1266	341
25°	1064	1064	1105	1139	1170	490
35°	882	888	940	990	1038	551
45°	680	695	749	812	872	525
55°	465	489	548	612	664	413
65°	224	259	340	381	401	232
75°	109	114	135	110	79	116
85°	28	33	38	30	22	31
90°	0	5	8	6	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°	1317.7	1317.7	1317.7	1317.7	1317.7
2.5°	1326.2	1311.6	1315.2	1312.8	1308.0
5°	1315.2	1301.9	1308.0	1306.7	1308.0
7.5°	1295.8	1284.9	1295.8	1299.5	1304.3
10°	1271.5	1263.0	1278.8	1287.3	1293.4
12.5°	1243.6	1236.3	1258.2	1271.5	1281.2
15°	1212.0	1205.9	1231.5	1253.3	1265.5
17.5°	1179.2	1174.4	1203.5	1231.5	1244.8
20°	1145.2	1140.4	1174.4	1202.3	1223.0
22.5°	1105.1	1102.7	1141.6	1170.7	1198.7
25°	1063.9	1063.9	1105.1	1139.2	1169.5
27.5°	1022.6	1022.6	1066.3	1103.9	1141.6
30°	976.4	980.1	1027.4	1068.7	1108.8
32.5°	929.1	935.1	983.7	1029.9	1074.8
35°	881.7	887.8	940.0	989.8	1038.4
37.5°	834.3	842.8	895.0	947.3	1001.9
40°	783.3	794.3	848.9	903.6	960.6
42.5°	733.5	745.7	800.3	858.6	918.1
45°	680.1	694.7	749.3	812.5	872.0
47.5°	630.3	644.9	702.0	763.9	823.4
50°	574.4	592.7	650.9	715.3	773.6
52.5°	521.0	541.6	598.7	664.3	721.4
55°	465.1	489.4	547.7	612.1	664.3
57.5°	405.6	434.8	495.5	557.4	604.8
60°	344.9	380.1	444.5	501.6	544.1
62.5°	279.3	320.6	391.1	444.5	474.8
65°	223.5	258.7	340.0	381.3	400.8
67.5°	185.8	206.5	284.2	314.5	314.5
70°	156.7	167.6	233.2	240.5	215.0
72.5°	132.4	138.4	182.2	164.0	122.7
75°	109.3	114.2	134.8	110.5	78.9
77.5°	87.4	91.1	102.0	83.8	61.9
80°	65.6	70.4	76.5	64.4	48.6
82.5°	46.1	49.8	57.1	47.4	35.2
85°	27.9	32.8	37.6	30.4	21.9
87.5°	12.1	15.8	20.6	15.8	9.7
90°	0.0	4.9	8.5	6.1	0.0
92.5°	0.0	0.0	1.2	1.2	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)