

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: P256958

Luminaire Tested: **HGL-S-BF-50L940-UNV-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256958
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-4
Description: HUGO 4 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH FROSTED LENS
Light Source: (168) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3243.1 lumens
Efficiency: N/A
Efficacy: 84.2 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

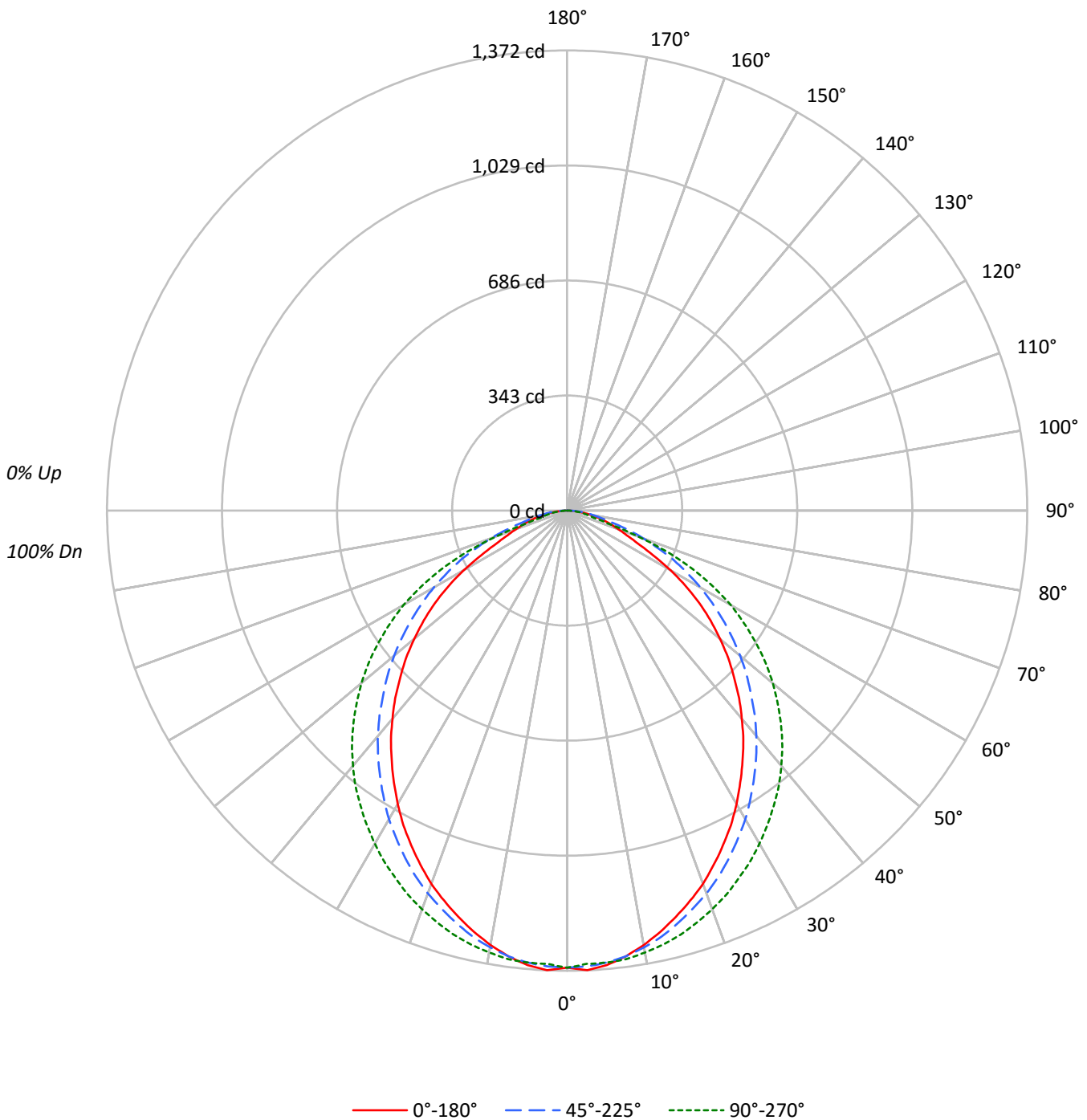
Input Watts (W): 38.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	16004	16004	16004
5°	16031	15900	15885
10°	15674	15681	15828
15°	15229	15350	15727
20°	14788	15000	15559
25°	14239	14587	15359
30°	13673	14143	15167
35°	13049	13625	14939
40°	12393	13100	14693
45°	11652	12463	14351
50°	10821	11840	13894
55°	9814	11081	13241
60°	8341	10219	12286
65°	6387	9133	10531
70°	5524	7600	6815
75°	5079	5638	3184
80°	4521	4514	2721
85°	3786	3817	2032



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.1	3.9
10°-20°	359.2	11.1
20°-30°	526.9	16.2
30°-40°	611.0	18.8
40°-50°	604.9	18.7
50°-60°	510.4	15.7
60°-70°	330.8	10.2
70°-80°	133.8	4.1
80°-90°	37.1	1.1
90°-100°	0.9	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°	1014.1	31.3
0°-40°	1625.1	50.1
0°-60°	2740.5	84.5
0°-90°	3242.2	100.0
90°-120°	0.9	0.0
90°-150°	0.9	0.0
90°-180°	1.0	0.0
0°-180°	3243.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1363	1363	1363	1363	1363	
5°	1360	1346	1353	1352	1353	128
15°	1254	1247	1274	1296	1309	353
25°	1100	1100	1143	1178	1210	507
35°	912	918	972	1024	1074	570
45°	703	718	775	840	902	543
55°	481	506	566	633	687	427
65°	231	268	352	394	414	240
75°	113	118	139	114	82	120
85°	29	34	39	31	23	32
90°	0	5	9	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°	1362.9	1362.9	1362.9	1362.9	1362.9
2.5°	1371.7	1356.6	1360.3	1357.8	1352.8
5°	1360.3	1346.5	1352.8	1351.6	1352.8
7.5°	1340.2	1328.9	1340.2	1344.0	1349.0
10°	1315.1	1306.3	1322.7	1331.5	1337.7
12.5°	1286.2	1278.7	1301.3	1315.1	1325.2
15°	1253.6	1247.3	1273.7	1296.3	1308.8
17.5°	1219.7	1214.6	1244.8	1273.7	1287.5
20°	1184.5	1179.5	1214.6	1243.5	1264.9
22.5°	1143.0	1140.5	1180.7	1210.9	1239.8
25°	1100.3	1100.3	1143.0	1178.2	1209.6
27.5°	1057.6	1057.6	1102.8	1141.8	1180.7
30°	1009.9	1013.7	1062.7	1105.4	1146.8
32.5°	960.9	967.2	1017.4	1065.2	1111.6
35°	911.9	918.2	972.2	1023.7	1074.0
37.5°	862.9	871.7	925.7	979.8	1036.3
40°	810.2	821.5	878.0	934.5	993.6
42.5°	758.7	771.2	827.8	888.1	949.6
45°	703.4	718.5	775.0	840.3	901.9
47.5°	651.9	667.0	726.0	790.1	851.6
50°	594.1	613.0	673.3	739.8	800.1
52.5°	538.9	560.2	619.3	687.1	746.1
55°	481.1	506.2	566.5	633.1	687.1
57.5°	419.5	449.7	512.5	576.5	625.5
60°	356.7	393.2	459.7	518.8	562.7
62.5°	288.9	331.6	404.5	459.7	491.1
65°	231.1	267.5	351.7	394.4	414.5
67.5°	192.2	213.5	293.9	325.3	325.3
70°	162.0	173.3	241.2	248.7	222.3
72.5°	136.9	143.2	188.4	169.6	126.9
75°	113.0	118.1	139.4	114.3	81.6
77.5°	90.4	94.2	105.5	86.7	64.1
80°	67.8	72.9	79.1	66.6	50.2
82.5°	47.7	51.5	59.0	49.0	36.4
85°	28.9	33.9	38.9	31.4	22.6
87.5°	12.6	16.3	21.4	16.3	10.0
90°	0.0	5.0	8.8	6.3	0.0
92.5°	0.0	0.0	1.3	1.3	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)