

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: P256945

Luminaire Tested: **HGL-S-BF-40L840-UNV-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256945
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-40L840-UNV-4
Description: HUGO 4 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH FROSTED LENS
Light Source: (168) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3433.5 lumens
Efficiency: N/A
Efficacy: 116.0 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

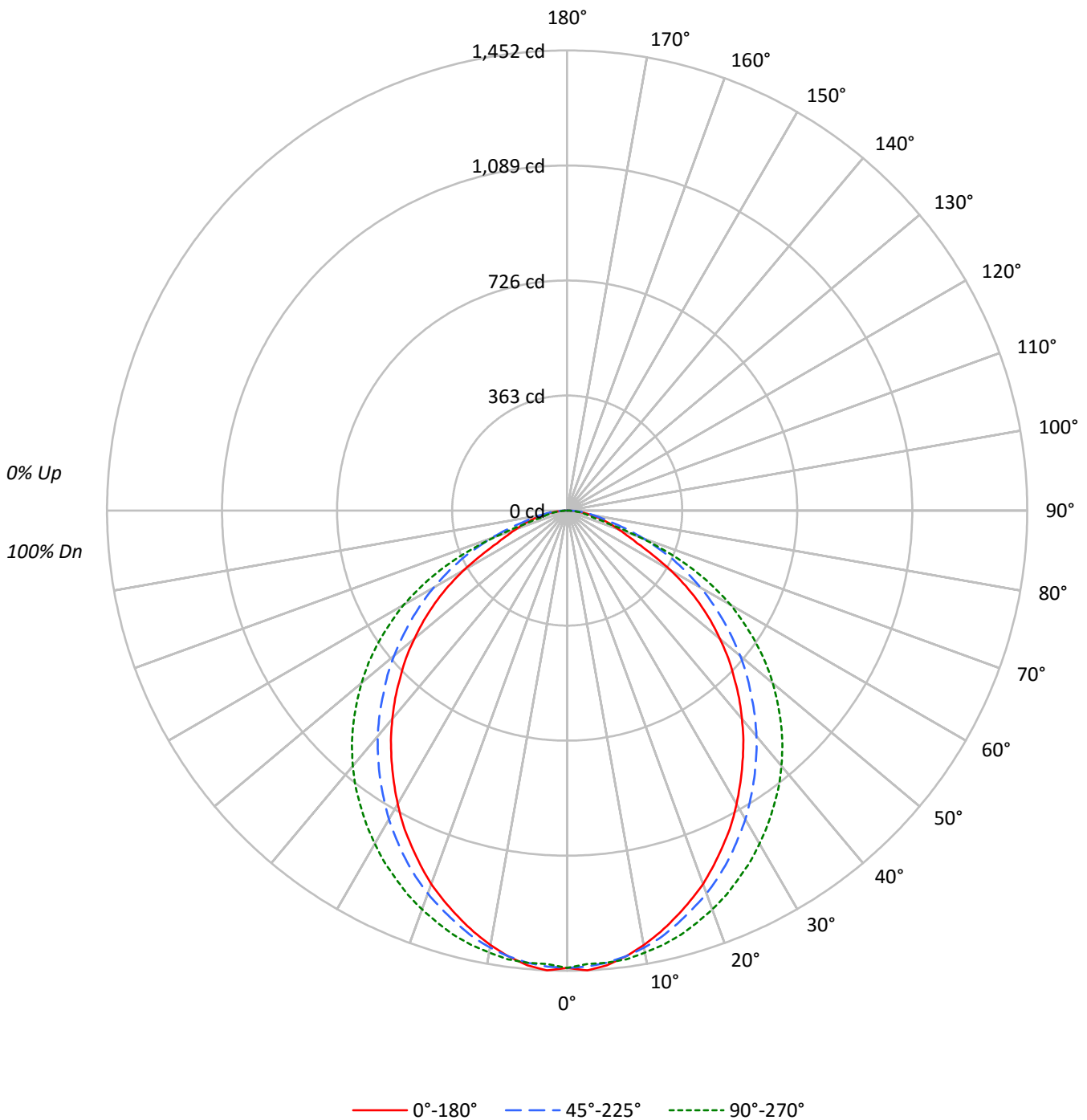
Input Watts (W): 29.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	16943	16943	16943
5°	16972	16834	16818
10°	16594	16601	16758
15°	16124	16250	16651
20°	15656	15880	16472
25°	15075	15444	16261
30°	14476	14972	16057
35°	13815	14425	15816
40°	13120	13868	15555
45°	12336	13195	15193
50°	11456	12534	14710
55°	10389	11731	14018
60°	8832	10819	13009
65°	6763	9668	11149
70°	5848	8044	7217
75°	5381	5970	3371
80°	4787	4782	2884
85°	4008	4043	2148



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.6	3.9
10°-20°	380.3	11.1
20°-30°	557.8	16.2
30°-40°	646.9	18.8
40°-50°	640.4	18.7
50°-60°	540.4	15.7
60°-70°	350.2	10.2
70°-80°	141.7	4.1
80°-90°	39.3	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°	1073.7	31.3
0°-40°	1720.5	50.1
0°-60°	2901.3	84.5
0°-90°	3432.6	100.0
90°-120°	0.9	0.0
90°-150°	0.9	0.0
90°-180°	1.0	0.0
0°-180°	3433.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1443	1443	1443	1443	1443	
5°	1440	1426	1432	1431	1432	136
15°	1327	1320	1348	1372	1386	374
25°	1165	1165	1210	1247	1281	536
35°	965	972	1029	1084	1137	604
45°	745	761	820	890	955	575
55°	509	536	600	670	727	453
65°	245	283	372	418	439	254
75°	120	125	148	121	86	127
85°	31	36	41	33	24	34
90°	0	5	9	7	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°	1442.9	1442.9	1442.9	1442.9	1442.9
2.5°	1452.2	1436.2	1440.2	1437.5	1432.2
5°	1440.2	1425.6	1432.2	1430.9	1432.2
7.5°	1418.9	1406.9	1418.9	1422.9	1428.2
10°	1392.3	1383.0	1400.3	1409.6	1416.3
12.5°	1361.7	1353.8	1377.7	1392.3	1403.0
15°	1327.2	1320.5	1348.4	1372.4	1385.7
17.5°	1291.3	1285.9	1317.8	1348.4	1363.1
20°	1254.0	1248.7	1285.9	1316.5	1339.1
22.5°	1210.1	1207.5	1250.0	1281.9	1312.5
25°	1164.9	1164.9	1210.1	1247.4	1280.6
27.5°	1119.7	1119.7	1167.6	1208.8	1250.0
30°	1069.2	1073.2	1125.0	1170.2	1214.1
32.5°	1017.3	1024.0	1077.2	1127.7	1176.9
35°	965.4	972.1	1029.3	1083.8	1137.0
37.5°	913.6	922.9	980.1	1037.3	1097.1
40°	857.7	869.7	929.5	989.4	1051.9
42.5°	803.2	816.5	876.3	940.2	1005.3
45°	744.7	760.7	820.5	889.6	954.8
47.5°	690.2	706.1	768.6	836.5	901.6
50°	629.0	649.0	712.8	783.3	847.1
52.5°	570.5	593.1	655.6	727.4	789.9
55°	509.3	535.9	599.7	670.2	727.4
57.5°	444.2	476.1	542.6	610.4	662.2
60°	377.7	416.2	486.7	549.2	595.8
62.5°	305.9	351.1	428.2	486.7	520.0
65°	244.7	283.3	372.3	417.6	438.8
67.5°	203.5	226.1	311.2	344.4	344.4
70°	171.5	183.5	255.3	263.3	235.4
72.5°	145.0	151.6	199.5	179.5	134.3
75°	119.7	125.0	147.6	121.0	86.4
77.5°	95.7	99.7	111.7	91.8	67.8
80°	71.8	77.1	83.8	70.5	53.2
82.5°	50.5	54.5	62.5	51.9	38.6
85°	30.6	35.9	41.2	33.2	23.9
87.5°	13.3	17.3	22.6	17.3	10.6
90°	0.0	5.3	9.3	6.6	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)