

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: P256933

Luminaire Tested: **HGL-S-BF-40L830-UNV-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256933
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-40L830-UNV-4
Description: HUGO 4 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH FROSTED LENS
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3261.0 lumens
Efficiency: N/A
Efficacy: 110.2 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

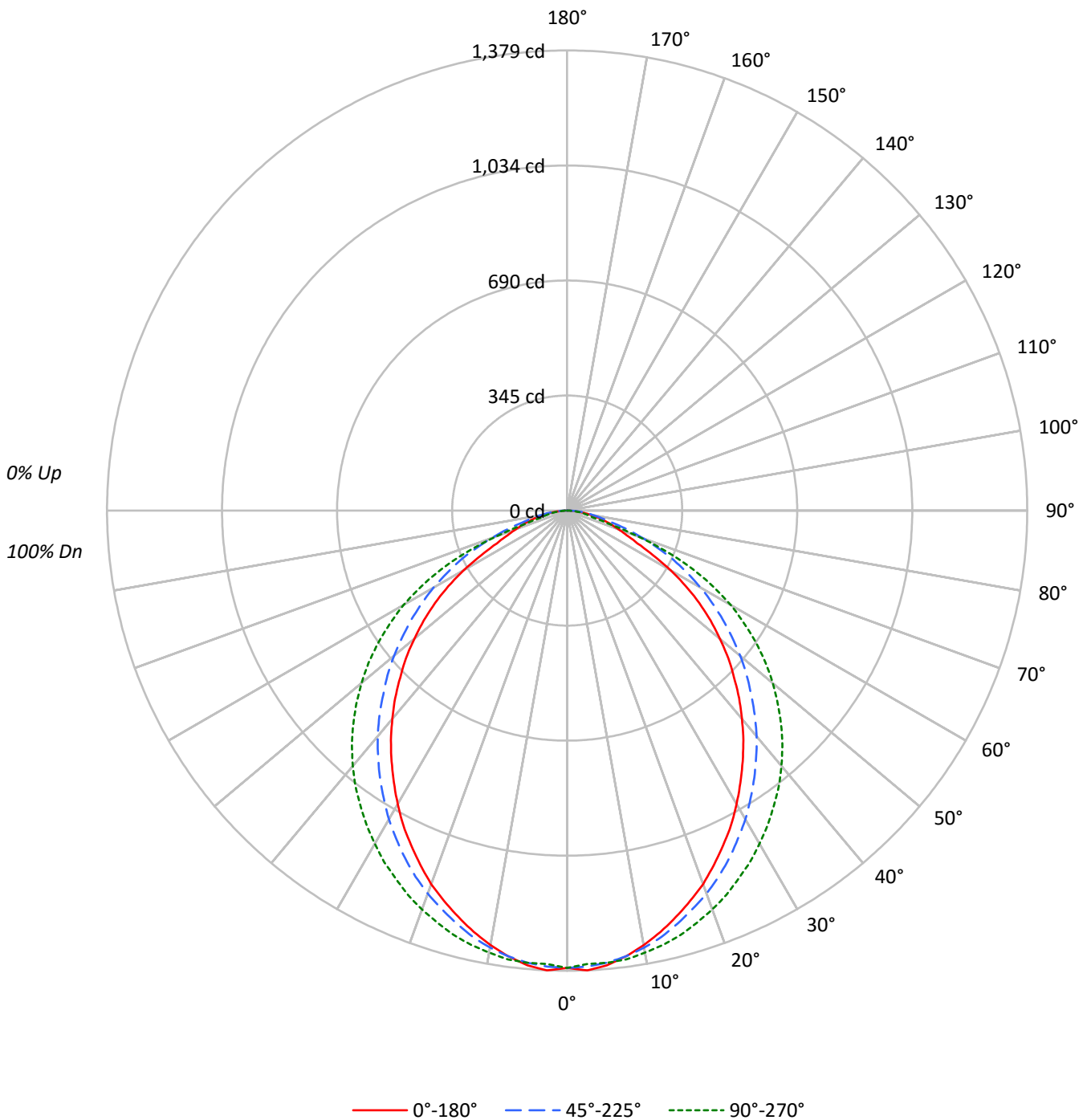
Input Watts (W): 29.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	16092	16092	16092
5°	16120	15989	15973
10°	15761	15768	15916
15°	15313	15434	15814
20°	14869	15082	15645
25°	14318	14668	15445
30°	13749	14220	15251
35°	13122	13701	15021
40°	12461	13173	14772
45°	11716	12532	14429
50°	10881	11905	13970
55°	9867	11142	13315
60°	8388	10276	12354
65°	6423	9182	10590
70°	5555	7641	6855
75°	5111	5670	3203
80°	4547	4542	2737
85°	3799	3847	2041



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.8	3.9
10°-20°	361.2	11.1
20°-30°	529.8	16.2
30°-40°	614.4	18.8
40°-50°	608.3	18.7
50°-60°	513.3	15.7
60°-70°	332.6	10.2
70°-80°	134.6	4.1
80°-90°	37.3	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°	1019.7	31.3
0°-40°	1634.1	50.1
0°-60°	2755.6	84.5
0°-90°	3260.1	100.0
90°-120°	0.9	0.0
90°-150°	0.9	0.0
90°-180°	1.0	0.0
0°-180°	3261.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1370	1370	1370	1370	1370	
5°	1368	1354	1360	1359	1360	129
15°	1260	1254	1281	1303	1316	355
25°	1106	1106	1149	1185	1216	509
35°	917	923	978	1029	1080	573
45°	707	722	779	845	907	546
55°	484	509	570	637	691	430
65°	232	269	354	397	417	241
75°	114	119	140	115	82	121
85°	29	34	39	32	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°	1370.4	1370.4	1370.4	1370.4	1370.4
2.5°	1379.2	1364.1	1367.9	1365.3	1360.3
5°	1367.9	1354.0	1360.3	1359.0	1360.3
7.5°	1347.6	1336.3	1347.6	1351.4	1356.5
10°	1322.4	1313.5	1330.0	1338.8	1345.1
12.5°	1293.3	1285.8	1308.5	1322.4	1332.5
15°	1260.5	1254.2	1280.7	1303.4	1316.1
17.5°	1226.4	1221.3	1251.7	1280.7	1294.6
20°	1191.0	1186.0	1221.3	1250.4	1271.9
22.5°	1149.3	1146.8	1187.2	1217.6	1246.6
25°	1106.4	1106.4	1149.3	1184.7	1216.3
27.5°	1063.5	1063.5	1108.9	1148.1	1187.2
30°	1015.5	1019.3	1068.5	1111.5	1153.1
32.5°	966.2	972.5	1023.0	1071.0	1117.8
35°	917.0	923.3	977.6	1029.4	1079.9
37.5°	867.7	876.5	930.8	985.2	1042.0
40°	814.6	826.0	882.9	939.7	999.0
42.5°	762.9	775.5	832.3	893.0	954.8
45°	707.3	722.4	779.3	845.0	906.8
47.5°	655.5	670.7	730.0	794.4	856.3
50°	597.4	616.4	677.0	743.9	804.5
52.5°	541.8	563.3	622.7	690.9	750.2
55°	483.7	509.0	569.6	636.6	690.9
57.5°	421.8	452.2	515.3	579.7	629.0
60°	358.7	395.3	462.3	521.6	565.8
62.5°	290.5	333.4	406.7	462.3	493.8
65°	232.4	269.0	353.6	396.6	416.8
67.5°	193.2	214.7	295.5	327.1	327.1
70°	162.9	174.3	242.5	250.1	223.6
72.5°	137.7	144.0	189.5	170.5	127.6
75°	113.7	118.7	140.2	114.9	82.1
77.5°	90.9	94.7	106.1	87.1	64.4
80°	68.2	73.3	79.6	66.9	50.5
82.5°	48.0	51.8	59.4	49.3	36.6
85°	29.0	34.1	39.2	31.6	22.7
87.5°	12.6	16.4	21.5	16.4	10.1
90°	0.0	5.1	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)