

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: P256994

Luminaire Tested: **HGL-S-BF-50L835-UNV-12**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256994
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-50L835-UNV-12
Description: HUGO 12 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH FROSTED LENS
Light Source: (504) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12701.2 lumens
Efficiency: N/A
Efficacy: 113.4 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.25 / 1.28
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 12' x H: 0.01')
CIE Type: Direct

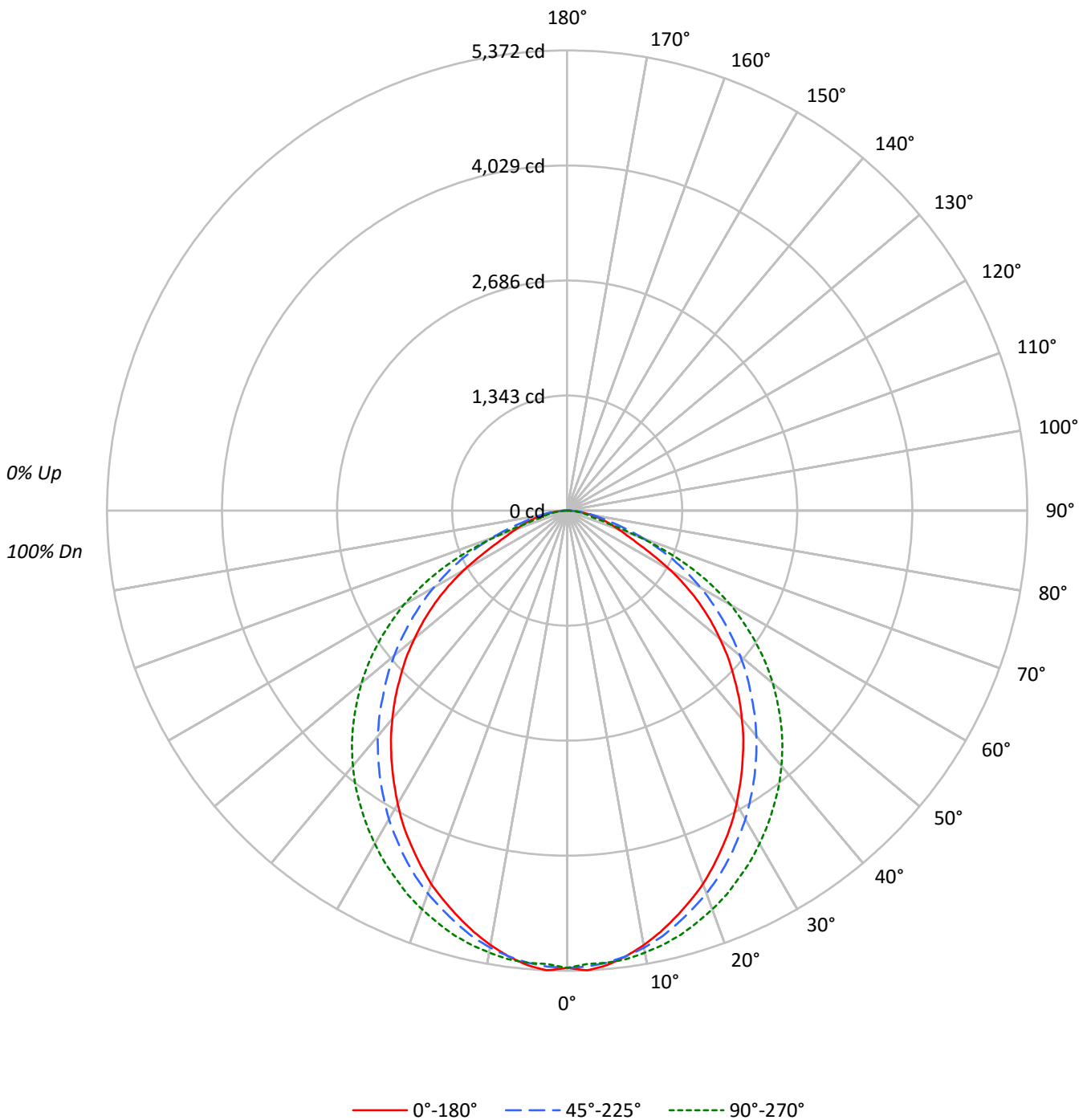
Input Watts (W): 112
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	20891	20891	20891
5°	20931	20760	20738
10°	20468	20475	20664
15°	19890	20044	20531
20°	19317	19590	20311
25°	18604	19054	20051
30°	17867	18474	19800
35°	17055	17801	19502
40°	16201	17118	19180
45°	15236	16289	18734
50°	14155	15476	18138
55°	12842	14489	17286
60°	10921	13367	16040
65°	8368	11951	13749
70°	7246	9949	8898
75°	6674	7390	4159
80°	5959	5928	3556
85°	5031	5038	2652



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	501.7	3.9
10°-20°	1406.7	11.1
20°-30°	2063.4	16.2
30°-40°	2392.8	18.8
40°-50°	2369.1	18.7
50°-60°	1999.1	15.7
60°-70°	1295.6	10.2
70°-80°	524.1	4.1
80°-90°	145.4	1.1
90°-100°	3.4	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°	3971.7	31.3
0°-40°	6364.6	50.1
0°-60°	10732.8	84.5
0°-90°	12697.8	100.0
90°-120°	3.4	0.0
90°-150°	3.4	0.0
90°-180°	3.0	0.0
0°-180°	12701.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5337	5337	5337	5337	5337	
5°	5328	5274	5298	5293	5298	503
15°	4910	4885	4988	5077	5126	1383
25°	4309	4309	4477	4614	4737	1984
35°	3571	3596	3808	4009	4206	2233
45°	2755	2814	3035	3291	3532	2126
55°	1884	1982	2219	2479	2691	1674
65°	905	1048	1377	1545	1623	939
75°	443	462	546	448	320	470
85°	113	133	152	123	88	124
90°	0	20	34	25	0	7
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°	5337.4	5337.4	5337.4	5337.4	5337.4
2.5°	5371.9	5312.8	5327.6	5317.8	5298.1
5°	5327.6	5273.5	5298.1	5293.2	5298.1
7.5°	5248.9	5204.6	5248.9	5263.6	5283.3
10°	5150.5	5116.1	5180.0	5214.5	5239.0
12.5°	5037.4	5007.8	5096.4	5150.5	5189.9
15°	4909.5	4884.9	4988.2	5076.7	5125.9
17.5°	4776.6	4757.0	4875.0	4988.2	5042.3
20°	4638.9	4619.2	4757.0	4870.1	4953.7
22.5°	4476.6	4466.7	4624.1	4742.2	4855.3
25°	4309.3	4309.3	4476.6	4614.3	4737.3
27.5°	4142.0	4142.0	4319.1	4471.6	4624.1
30°	3955.1	3969.9	4161.7	4329.0	4491.3
32.5°	3763.3	3787.9	3984.6	4171.6	4353.6
35°	3571.4	3596.0	3807.5	4009.2	4206.0
37.5°	3379.6	3414.0	3625.5	3837.0	4058.4
40°	3172.9	3217.2	3438.6	3660.0	3891.2
42.5°	2971.3	3020.4	3241.8	3477.9	3719.0
45°	2754.8	2813.8	3035.2	3291.0	3532.1
47.5°	2553.1	2612.1	2843.4	3094.2	3335.3
50°	2326.8	2400.6	2636.7	2897.5	3133.6
52.5°	2110.4	2194.0	2425.2	2690.9	2922.1
55°	1884.1	1982.5	2218.6	2479.3	2690.9
57.5°	1643.0	1761.1	2007.1	2258.0	2449.8
60°	1397.1	1539.7	1800.5	2031.7	2203.8
62.5°	1131.4	1298.7	1584.0	1800.5	1923.4
65°	905.1	1047.8	1377.4	1544.7	1623.4
67.5°	752.7	836.3	1151.1	1274.1	1274.1
70°	634.6	678.9	944.5	974.0	870.7
72.5°	536.2	560.8	737.9	664.1	496.8
75°	442.7	462.4	546.0	447.7	319.8
77.5°	354.2	368.9	413.2	339.4	250.9
80°	265.6	285.3	309.9	260.7	196.8
82.5°	186.9	201.7	231.2	191.9	142.7
85°	113.1	132.8	152.5	123.0	88.5
87.5°	49.2	64.0	83.6	64.0	39.4
90°	0.0	19.7	34.4	24.6	0.0
92.5°	0.0	0.0	4.9	4.9	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)