

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: P256999

Luminaire Tested: **HGL-S-BF-50L840-UNV-12**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256999
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-50L840-UNV-12
Description: HUGO 12 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH FROSTED LENS
Light Source: (504) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12890.3 lumens
Efficiency: N/A
Efficacy: 115.1 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

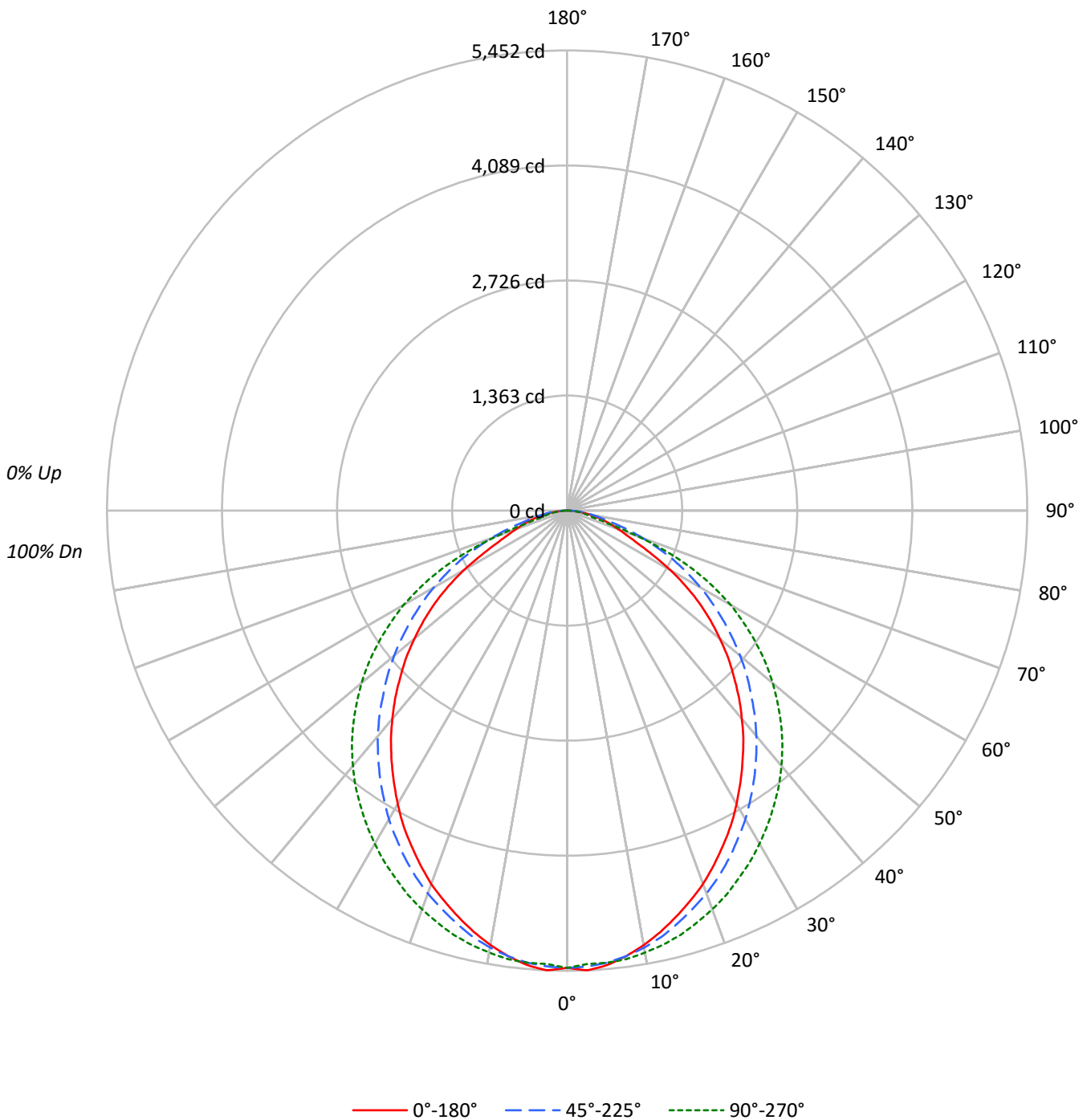
Input Watts (W): 112
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P256999

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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°	21203	21203	21203
5°	21243	21069	21046
10°	20773	20780	20972
15°	20186	20343	20837
20°	19605	19882	20614
25°	18881	19338	20350
30°	18133	18749	20095
35°	17309	18066	19792
40°	16442	17373	19465
45°	15463	16532	19013
50°	14366	15706	18409
55°	13033	14705	17543
60°	11084	13566	16279
65°	8493	12129	13953
70°	7353	10098	9031
75°	6774	7501	4220
80°	6048	6016	3608
85°	5107	5114	2694



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	509.1	3.9
10°-20°	1427.6	11.1
20°-30°	2094.1	16.2
30°-40°	2428.5	18.8
40°-50°	2404.4	18.7
50°-60°	2028.9	15.7
60°-70°	1314.8	10.2
70°-80°	531.9	4.1
80°-90°	147.6	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°	4030.9	31.3
0°-40°	6459.3	50.1
0°-60°	10892.6	84.5
0°-90°	12886.9	100.0
90°-120°	3.4	0.0
90°-150°	3.4	0.0
90°-180°	3.0	0.0
0°-180°	12890.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5417	5417	5417	5417	5417	
5°	5407	5352	5377	5372	5377	510
15°	4983	4958	5062	5152	5202	1403
25°	4374	4374	4543	4683	4808	2014
35°	3625	3650	3864	4069	4269	2266
45°	2796	2856	3080	3340	3585	2158
55°	1912	2012	2252	2516	2731	1699
65°	919	1063	1398	1568	1648	953
75°	449	469	554	454	324	477
85°	115	135	155	125	90	126
90°	0	20	35	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



TEST NUMBER: P256999

CATALOG NUMBER: HGL-S-BF-50L840-UNV-12

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5416.9	5416.9	5416.9	5416.9	5416.9
2.5°	5451.9	5392.0	5406.9	5396.9	5377.0
5°	5406.9	5352.0	5377.0	5372.0	5377.0
7.5°	5327.1	5282.1	5327.1	5342.0	5362.0
10°	5227.2	5192.3	5257.2	5292.1	5317.1
12.5°	5112.4	5082.4	5172.3	5227.2	5267.1
15°	4982.6	4957.6	5062.4	5152.3	5202.2
17.5°	4847.8	4827.8	4947.6	5062.4	5117.4
20°	4708.0	4688.0	4827.8	4942.6	5027.5
22.5°	4543.2	4533.2	4693.0	4812.8	4927.6
25°	4373.5	4373.5	4543.2	4683.0	4807.8
27.5°	4203.7	4203.7	4383.5	4538.2	4693.0
30°	4014.0	4029.0	4223.7	4393.4	4558.2
32.5°	3819.3	3844.3	4044.0	4233.7	4418.4
35°	3624.6	3649.6	3864.2	4068.9	4268.6
37.5°	3429.9	3464.8	3679.5	3894.2	4118.9
40°	3220.2	3265.1	3489.8	3714.5	3949.1
42.5°	3015.5	3065.4	3290.1	3529.7	3774.4
45°	2795.8	2855.7	3080.4	3340.0	3584.7
47.5°	2591.1	2651.0	2885.7	3140.3	3384.9
50°	2361.5	2436.4	2676.0	2940.6	3180.3
52.5°	2141.8	2226.7	2461.3	2730.9	2965.6
55°	1912.1	2012.0	2251.6	2516.2	2730.9
57.5°	1667.5	1787.3	2037.0	2291.6	2486.3
60°	1417.9	1562.7	1827.3	2061.9	2236.7
62.5°	1148.3	1318.0	1607.6	1827.3	1952.1
65°	918.6	1063.4	1397.9	1567.7	1647.5
67.5°	763.9	848.7	1168.3	1293.1	1293.1
70°	644.0	689.0	958.6	988.5	883.7
72.5°	544.2	569.2	748.9	674.0	504.2
75°	449.3	469.3	554.2	454.3	324.5
77.5°	359.5	374.4	419.4	344.5	254.6
80°	269.6	289.6	314.5	264.6	199.7
82.5°	189.7	204.7	234.6	194.7	144.8
85°	114.8	134.8	154.8	124.8	89.9
87.5°	49.9	64.9	84.9	64.9	39.9
90°	0.0	20.0	34.9	25.0	0.0
92.5°	0.0	0.0	5.0	5.0	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



TEST NUMBER: P256999

CATALOG NUMBER: HGL-S-BF-50L840-UNV-12

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)