

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: P256998

Luminaire Tested: **HGL-S-BF-40L840-UNV-12**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256998
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-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: 10300.4 lumens
Efficiency: N/A
Efficacy: 120.2 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

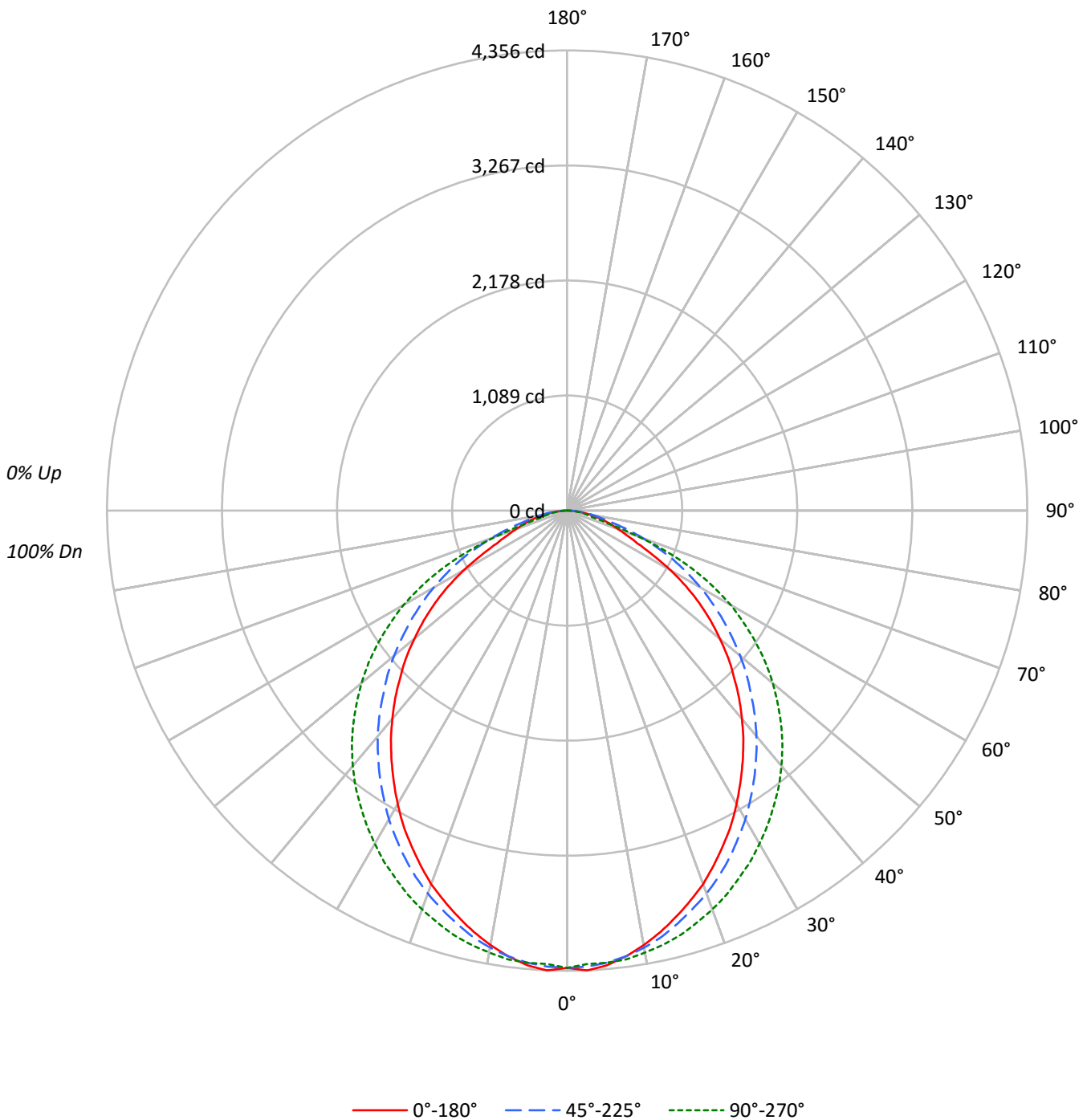
Input Watts (W): 85.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					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°	16975	16835	16818
10°	16599	16605	16758
15°	16130	16255	16650
20°	15666	15887	16472
25°	15087	15452	16261
30°	14490	14982	16058
35°	13831	14437	15816
40°	13139	13882	15555
45°	12356	13210	15193
50°	11479	12550	14710
55°	10415	11750	14018
60°	8857	10840	13008
65°	6787	9692	11150
70°	5876	8069	7216
75°	5414	5993	3372
80°	4832	4807	2884
85°	4084	4087	2151



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	406.8	3.9
10°-20°	1140.8	11.1
20°-30°	1673.4	16.2
30°-40°	1940.6	18.8
40°-50°	1921.3	18.7
50°-60°	1621.2	15.7
60°-70°	1050.7	10.2
70°-80°	425.0	4.1
80°-90°	117.9	1.1
90°-100°	2.7	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°	3221.0	31.3
0°-40°	5161.5	50.1
0°-60°	8704.0	84.5
0°-90°	10297.7	100.0
90°-120°	2.7	0.0
90°-150°	2.7	0.0
90°-180°	3.0	0.0
0°-180°	10300.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4329	4329	4329	4329	4329	
5°	4321	4277	4297	4293	4297	408
15°	3982	3962	4045	4117	4157	1121
25°	3495	3495	3630	3742	3842	1609
35°	2896	2916	3088	3251	3411	1811
45°	2234	2282	2462	2669	2864	1725
55°	1528	1608	1799	2011	2182	1358
65°	734	850	1117	1253	1316	762
75°	359	375	443	363	259	381
85°	92	108	124	100	72	101
90°	0	16	28	20	0	5
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°	4328.6	4328.6	4328.6	4328.6	4328.6
2.5°	4356.5	4308.6	4320.6	4312.6	4296.6
5°	4320.6	4276.7	4296.6	4292.6	4296.6
7.5°	4256.7	4220.8	4256.7	4268.7	4284.7
10°	4177.0	4149.0	4200.9	4228.8	4248.8
12.5°	4085.2	4061.3	4133.1	4177.0	4208.9
15°	3981.5	3961.5	4045.3	4117.1	4157.0
17.5°	3873.8	3857.8	3953.5	4045.3	4089.2
20°	3762.1	3746.1	3857.8	3949.6	4017.4
22.5°	3630.4	3622.4	3750.1	3845.8	3937.6
25°	3494.8	3494.8	3630.4	3742.1	3841.8
27.5°	3359.1	3359.1	3502.7	3626.4	3750.1
30°	3207.5	3219.5	3375.1	3510.7	3642.4
32.5°	3051.9	3071.9	3231.5	3383.1	3530.7
35°	2896.3	2916.3	3087.8	3251.4	3411.0
37.5°	2740.8	2768.7	2940.2	3111.8	3291.3
40°	2573.2	2609.1	2788.6	2968.2	3155.7
42.5°	2409.6	2449.5	2629.0	2820.5	3016.0
45°	2234.1	2282.0	2461.5	2668.9	2864.4
47.5°	2070.5	2118.4	2305.9	2509.4	2704.8
50°	1887.0	1946.9	2138.3	2349.8	2541.3
52.5°	1711.5	1779.3	1966.8	2182.2	2369.7
55°	1528.0	1607.7	1799.2	2010.7	2182.2
57.5°	1332.5	1428.2	1627.7	1831.2	1986.7
60°	1133.0	1248.7	1460.1	1647.6	1787.3
62.5°	917.6	1053.2	1284.6	1460.1	1559.9
65°	734.1	849.8	1117.0	1252.7	1316.5
67.5°	610.4	678.2	933.5	1033.3	1033.3
70°	514.6	550.5	766.0	789.9	706.1
72.5°	434.9	454.8	598.4	538.6	402.9
75°	359.1	375.0	442.8	363.0	259.3
77.5°	287.2	299.2	335.1	275.3	203.5
80°	215.4	231.4	251.3	211.4	159.6
82.5°	151.6	163.6	187.5	155.6	115.7
85°	91.8	107.7	123.7	99.7	71.8
87.5°	39.9	51.9	67.8	51.9	31.9
90°	0.0	16.0	27.9	19.9	0.0
92.5°	0.0	0.0	4.0	4.0	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



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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)