

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: P256976

Luminaire Tested: **HGL-S-BF-80L840-UNV-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256976
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-80L840-UNV-8
Description: HUGO 8 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH FROSTED LENS
Light Source: (336) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14034.2 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.25 / 1.28
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 8' x H: 0.01')
CIE Type: Direct

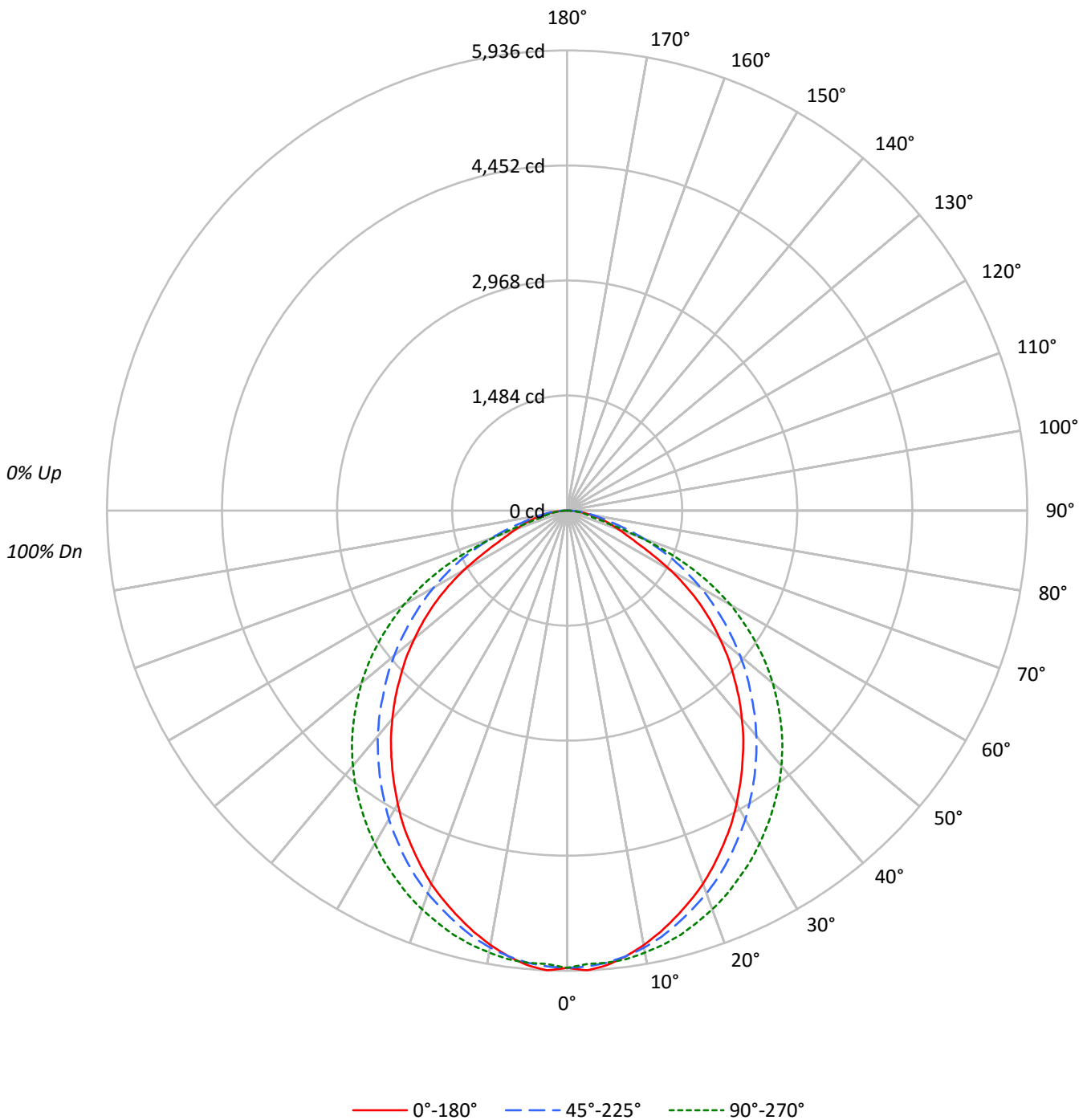
Input Watts (W): 141
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	34626	34626	34626
5°	34690	34406	34371
10°	33922	33934	34249
15°	32962	33219	34029
20°	32012	32466	33664
25°	30828	31576	33234
30°	29606	30615	32818
35°	28259	29499	32322
40°	26843	28365	31789
45°	25242	26990	31051
50°	23449	25642	30063
55°	21272	24005	28650
60°	18088	22143	26585
65°	13857	19797	22787
70°	11996	16478	14748
75°	11046	12238	6892
80°	9854	9811	5892
85°	8302	8329	4396



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	554.3	3.9
10°-20°	1554.3	11.1
20°-30°	2279.9	16.2
30°-40°	2644.0	18.8
40°-50°	2617.8	18.7
50°-60°	2208.9	15.7
60°-70°	1431.5	10.2
70°-80°	579.1	4.1
80°-90°	160.7	1.1
90°-100°	3.7	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°	4388.6	31.3
0°-40°	7032.5	50.1
0°-60°	11859.2	84.5
0°-90°	14030.5	100.0
90°-120°	3.7	0.0
90°-150°	3.7	0.0
90°-180°	4.0	0.0
0°-180°	14034.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5898	5898	5898	5898	5898	
5°	5887	5827	5854	5849	5854	555
15°	5425	5398	5512	5610	5664	1528
25°	4762	4762	4946	5099	5234	2192
35°	3946	3973	4207	4430	4647	2467
45°	3044	3109	3354	3636	3903	2350
55°	2082	2190	2451	2740	2973	1850
65°	1000	1158	1522	1707	1794	1038
75°	489	511	603	495	353	520
85°	125	147	168	136	98	137
90°	0	22	38	27	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°	5897.6	5897.6	5897.6	5897.6	5897.6
2.5°	5935.7	5870.4	5886.7	5875.9	5854.1
5°	5886.7	5826.9	5854.1	5848.7	5854.1
7.5°	5799.8	5750.8	5799.8	5816.1	5837.8
10°	5691.1	5653.0	5723.7	5761.7	5788.9
12.5°	5566.0	5533.4	5631.3	5691.1	5734.5
15°	5424.7	5397.5	5511.7	5609.5	5663.9
17.5°	5278.0	5256.2	5386.7	5511.7	5571.5
20°	5125.8	5104.0	5256.2	5381.2	5473.6
22.5°	4946.4	4935.5	5109.5	5239.9	5364.9
25°	4761.6	4761.6	4946.4	5098.6	5234.5
27.5°	4576.8	4576.8	4772.4	4940.9	5109.5
30°	4370.2	4386.5	4598.5	4783.3	4962.7
32.5°	4158.2	4185.4	4402.8	4609.4	4810.5
35°	3946.2	3973.4	4207.1	4430.0	4647.4
37.5°	3734.2	3772.3	4006.0	4239.8	4484.4
40°	3506.0	3554.9	3799.5	4044.1	4299.5
42.5°	3283.1	3337.4	3582.1	3843.0	4109.3
45°	3043.9	3109.2	3353.8	3636.4	3902.8
47.5°	2821.1	2886.3	3141.8	3419.0	3685.3
50°	2571.0	2652.6	2913.5	3201.6	3462.5
52.5°	2331.9	2424.3	2679.7	2973.3	3228.7
55°	2081.8	2190.5	2451.4	2739.5	2973.3
57.5°	1815.5	1945.9	2217.7	2494.9	2706.9
60°	1543.7	1701.3	1989.4	2244.9	2435.1
62.5°	1250.2	1435.0	1750.3	1989.4	2125.3
65°	1000.1	1157.8	1522.0	1706.8	1793.7
67.5°	831.6	924.0	1271.9	1407.8	1407.8
70°	701.2	750.1	1043.6	1076.2	962.1
72.5°	592.5	619.7	815.3	733.8	549.0
75°	489.2	510.9	603.4	494.6	353.3
77.5°	391.4	407.7	456.6	375.1	277.2
80°	293.5	315.3	342.4	288.1	217.4
82.5°	206.6	222.9	255.5	212.0	157.6
85°	125.0	146.8	168.5	135.9	97.8
87.5°	54.4	70.7	92.4	70.7	43.5
90°	0.0	21.7	38.0	27.2	0.0
92.5°	0.0	0.0	5.4	5.4	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)