

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: P256966

Luminaire Tested: **HGL-S-BF-80L830-UNV-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256966
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-80L830-UNV-8
Description: HUGO 8 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH FROSTED LENS
Light Source: (336) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13329.3 lumens
Efficiency: N/A
Efficacy: 94.5 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

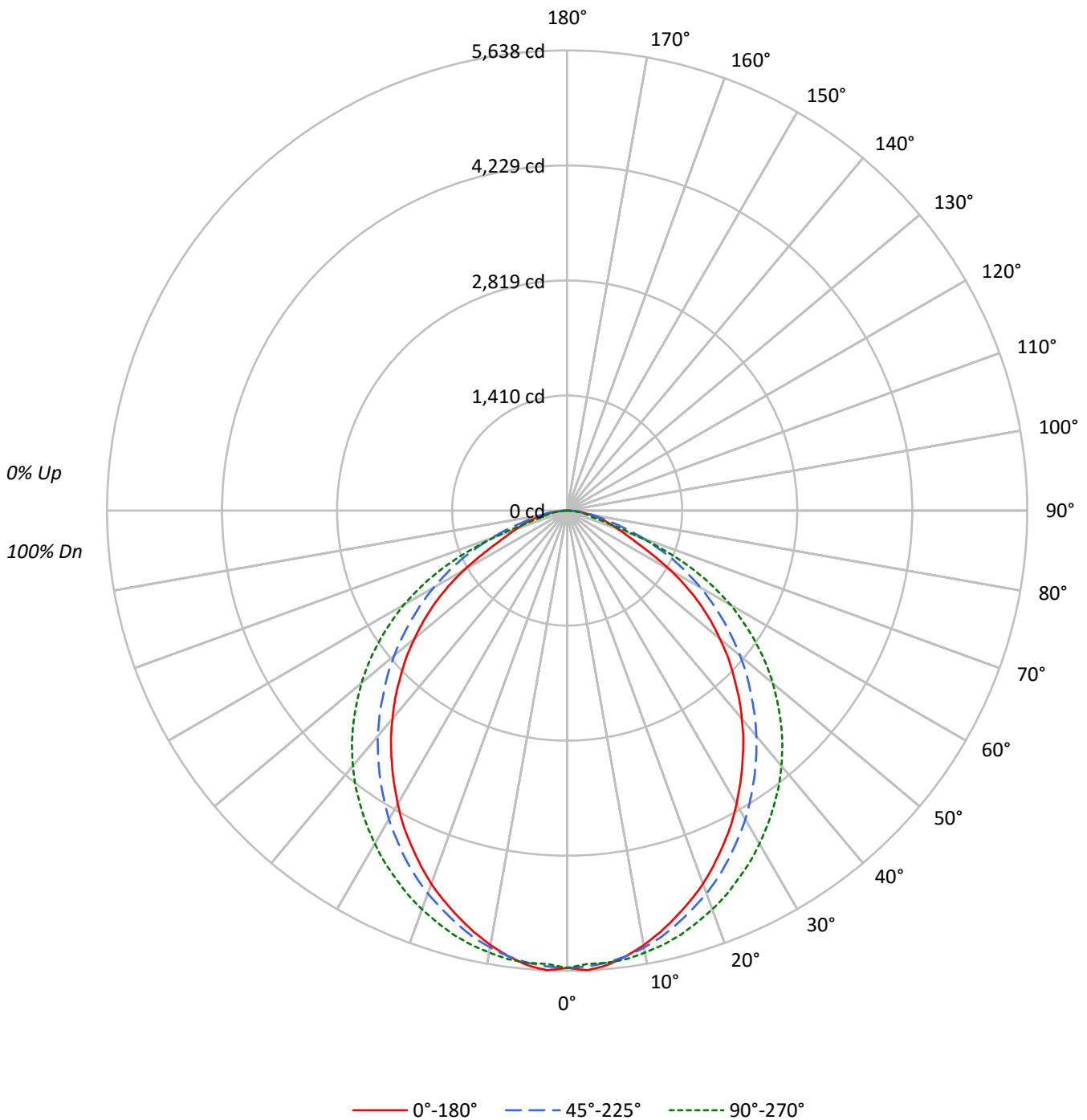
Input Watts (W): 141
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	32887	32887	32887
5°	32948	32679	32645
10°	32218	32229	32528
15°	31306	31551	32320
20°	30403	30835	31974
25°	29280	29990	31564
30°	28119	29077	31169
35°	26840	28017	30699
40°	25494	26940	30193
45°	23974	25634	29490
50°	22271	24353	28552
55°	20204	22799	27210
60°	17180	21031	25250
65°	13161	18802	21642
70°	11394	15650	14007
75°	10490	11622	6547
80°	9360	9318	5597
85°	7884	7909	4176



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	526.5	3.9
10°-20°	1476.3	11.1
20°-30°	2165.4	16.2
30°-40°	2511.2	18.8
40°-50°	2486.2	18.7
50°-60°	2097.9	15.7
60°-70°	1359.6	10.2
70°-80°	550.0	4.1
80°-90°	152.6	1.1
90°-100°	3.5	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°	4168.1	31.3
0°-40°	6679.3	50.1
0°-60°	11263.5	84.5
0°-90°	13325.7	100.0
90°-120°	3.5	0.0
90°-150°	3.5	0.0
90°-180°	4.0	0.0
0°-180°	13329.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5601	5601	5601	5601	5601	
5°	5591	5534	5560	5555	5560	527
15°	5152	5126	5235	5328	5379	1451
25°	4522	4522	4698	4842	4972	2082
35°	3748	3774	3996	4208	4414	2343
45°	2891	2953	3185	3454	3707	2232
55°	1977	2080	2328	2602	2824	1757
65°	950	1100	1446	1621	1704	986
75°	465	485	573	470	336	493
85°	119	139	160	129	93	131
90°	0	21	36	26	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: P256966

CATALOG NUMBER: HGL-S-BF-80L830-UNV-8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5601.4	5601.4	5601.4	5601.4	5601.4
2.5°	5637.5	5575.6	5591.1	5580.7	5560.1
5°	5591.1	5534.3	5560.1	5554.9	5560.1
7.5°	5508.4	5462.0	5508.4	5523.9	5544.6
10°	5405.2	5369.1	5436.2	5472.3	5498.1
12.5°	5286.5	5255.5	5348.4	5405.2	5446.5
15°	5152.2	5126.4	5234.8	5327.8	5379.4
17.5°	5012.8	4992.2	5116.1	5234.8	5291.6
20°	4868.3	4847.6	4992.2	5110.9	5198.7
22.5°	4697.9	4687.6	4852.8	4976.7	5095.4
25°	4522.4	4522.4	4697.9	4842.5	4971.5
27.5°	4346.9	4346.9	4532.7	4692.8	4852.8
30°	4150.7	4166.2	4367.5	4543.1	4713.4
32.5°	3949.4	3975.2	4181.7	4377.8	4568.9
35°	3748.0	3773.8	3995.8	4207.5	4414.0
37.5°	3546.7	3582.8	3804.8	4026.8	4259.1
40°	3329.8	3376.3	3608.6	3840.9	4083.6
42.5°	3118.2	3169.8	3402.1	3649.9	3902.9
45°	2891.0	2953.0	3185.3	3453.8	3706.7
47.5°	2679.4	2741.3	2984.0	3247.2	3500.2
50°	2441.9	2519.3	2767.1	3040.7	3288.5
52.5°	2214.7	2302.5	2545.1	2823.9	3066.6
55°	1977.3	2080.5	2328.3	2601.9	2823.9
57.5°	1724.3	1848.2	2106.3	2369.6	2571.0
60°	1466.2	1615.9	1889.5	2132.1	2312.8
62.5°	1187.4	1362.9	1662.3	1889.5	2018.6
65°	949.9	1099.6	1445.5	1621.0	1703.6
67.5°	789.9	877.6	1208.0	1337.1	1337.1
70°	666.0	712.4	991.2	1022.2	913.8
72.5°	562.7	588.5	774.4	696.9	521.4
75°	464.6	485.3	573.0	469.8	335.6
77.5°	371.7	387.2	433.7	356.2	263.3
80°	278.8	299.4	325.2	273.6	206.5
82.5°	196.2	211.7	242.6	201.3	149.7
85°	118.7	139.4	160.0	129.1	92.9
87.5°	51.6	67.1	87.8	67.1	41.3
90°	0.0	20.7	36.1	25.8	0.0
92.5°	0.0	0.0	5.2	5.2	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: P256966

CATALOG NUMBER: HGL-S-BF-80L830-UNV-8

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)