

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: P256965

Luminaire Tested: **HGL-S-BF-60L830-UNV-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256965
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-60L830-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: 9862.2 lumens
Efficiency: N/A
Efficacy: 104.4 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

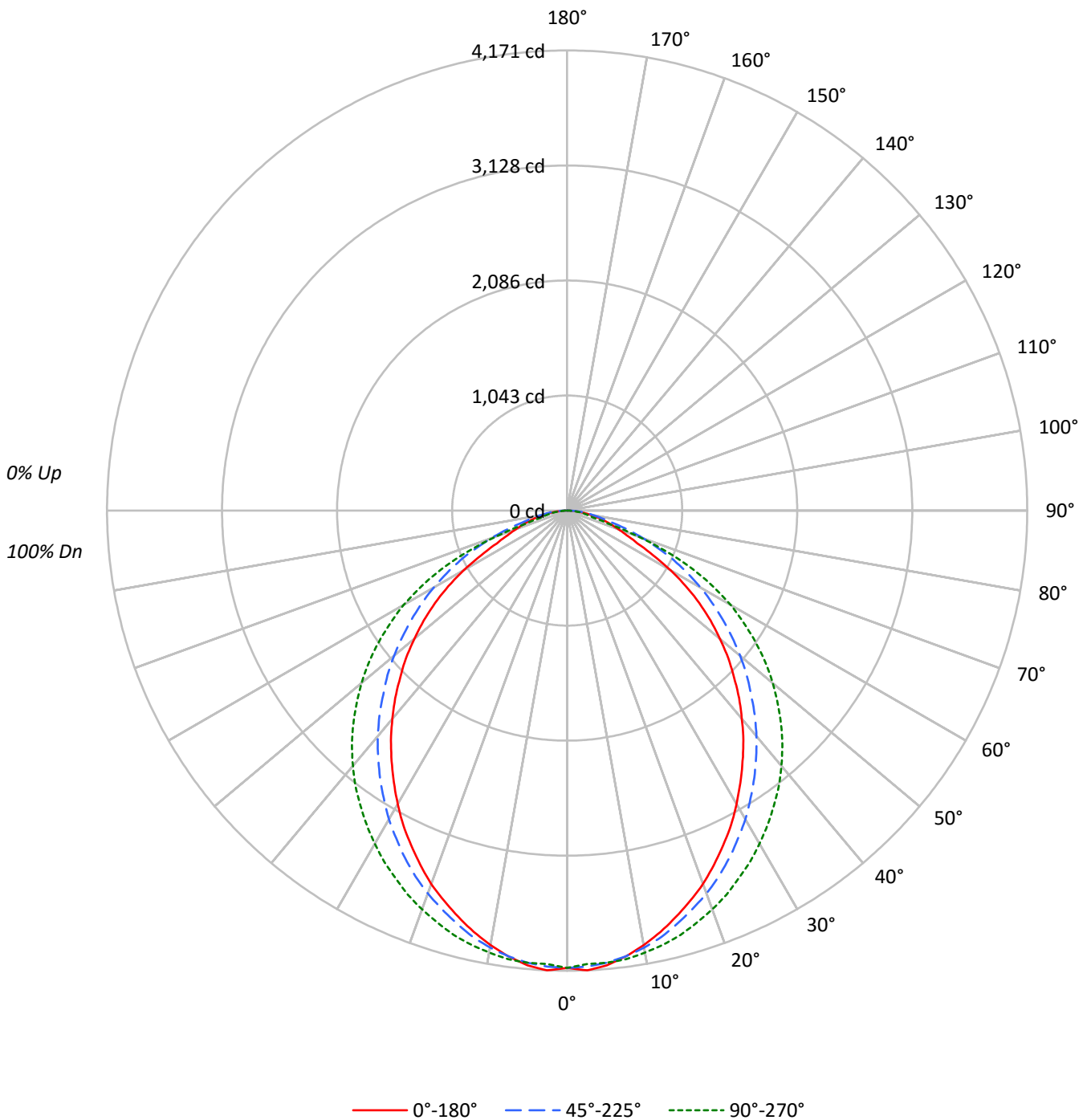
Input Watts (W): 94.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	24333	24333	24333
5°	24378	24178	24153
10°	23837	23846	24067
15°	23163	23344	23913
20°	22495	22815	23657
25°	21664	22189	23354
30°	20805	21514	23062
35°	19859	20730	22713
40°	18863	19933	22339
45°	17738	18967	21819
50°	16478	18019	21126
55°	14948	16869	20133
60°	12711	15560	18682
65°	9738	13911	16013
70°	8429	11580	10364
75°	7763	8600	4844
80°	6926	6894	4141
85°	5838	5853	3092



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	389.5	3.9
10°-20°	1092.3	11.1
20°-30°	1602.2	16.2
30°-40°	1858.0	18.8
40°-50°	1839.6	18.7
50°-60°	1552.2	15.7
60°-70°	1005.9	10.2
70°-80°	407.0	4.1
80°-90°	112.9	1.1
90°-100°	2.6	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°	3083.9	31.3
0°-40°	4941.9	50.1
0°-60°	8333.7	84.5
0°-90°	9859.6	100.0
90°-120°	2.6	0.0
90°-150°	2.6	0.0
90°-180°	3.0	0.0
0°-180°	9862.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4144	4144	4144	4144	4144	
5°	4137	4095	4114	4110	4114	390
15°	3812	3793	3873	3942	3980	1074
25°	3346	3346	3476	3583	3678	1541
35°	2773	2792	2956	3113	3266	1734
45°	2139	2185	2357	2555	2742	1651
55°	1463	1539	1723	1925	2089	1300
65°	703	814	1070	1199	1260	729
75°	344	359	424	348	248	365
85°	88	103	118	96	69	97
90°	0	15	27	19	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°	4144.4	4144.4	4144.4	4144.4	4144.4
2.5°	4171.1	4125.3	4136.7	4129.1	4113.8
5°	4136.7	4094.7	4113.8	4110.0	4113.8
7.5°	4075.6	4041.2	4075.6	4087.1	4102.4
10°	3999.2	3972.5	4022.2	4048.9	4068.0
12.5°	3911.4	3888.5	3957.2	3999.2	4029.8
15°	3812.1	3793.0	3873.2	3941.9	3980.1
17.5°	3708.9	3693.7	3785.3	3873.2	3915.2
20°	3602.0	3586.7	3693.7	3781.5	3846.4
22.5°	3475.9	3468.3	3590.5	3682.2	3770.0
25°	3346.1	3346.1	3475.9	3582.9	3678.4
27.5°	3216.2	3216.2	3353.7	3472.1	3590.5
30°	3071.0	3082.5	3231.5	3361.3	3487.4
32.5°	2922.1	2941.2	3094.0	3239.1	3380.4
35°	2773.1	2792.2	2956.5	3113.1	3265.8
37.5°	2624.1	2650.9	2815.1	2979.4	3151.3
40°	2463.7	2498.1	2670.0	2841.9	3021.4
42.5°	2307.1	2345.3	2517.2	2700.5	2887.7
45°	2139.0	2184.9	2356.8	2555.4	2742.5
47.5°	1982.4	2028.3	2207.8	2402.6	2589.8
50°	1806.7	1864.0	2047.4	2249.8	2433.2
52.5°	1638.7	1703.6	1883.1	2089.4	2268.9
55°	1462.9	1539.3	1722.7	1925.1	2089.4
57.5°	1275.8	1367.5	1558.4	1753.2	1902.2
60°	1084.8	1195.6	1398.0	1577.5	1711.2
62.5°	878.5	1008.4	1229.9	1398.0	1493.5
65°	702.8	813.6	1069.5	1199.4	1260.5
67.5°	584.4	649.3	893.8	989.3	989.3
70°	492.7	527.1	733.4	756.3	676.1
72.5°	416.3	435.4	573.0	515.7	385.8
75°	343.8	359.1	424.0	347.6	248.3
77.5°	275.0	286.5	320.9	263.6	194.8
80°	206.3	221.5	240.6	202.4	152.8
82.5°	145.1	156.6	179.5	149.0	110.8
85°	87.9	103.1	118.4	95.5	68.8
87.5°	38.2	49.7	64.9	49.7	30.6
90°	0.0	15.3	26.7	19.1	0.0
92.5°	0.0	0.0	3.8	3.8	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)