

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: P256943

Luminaire Tested: **HGL-S-BF-80L835-UNV-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256943
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-80L835-UNV-4
Description: HUGO 4 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH FROSTED LENS
Light Source: (168) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6914.1 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.25 / 1.28
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 4' x H: 0.01')
CIE Type: Direct

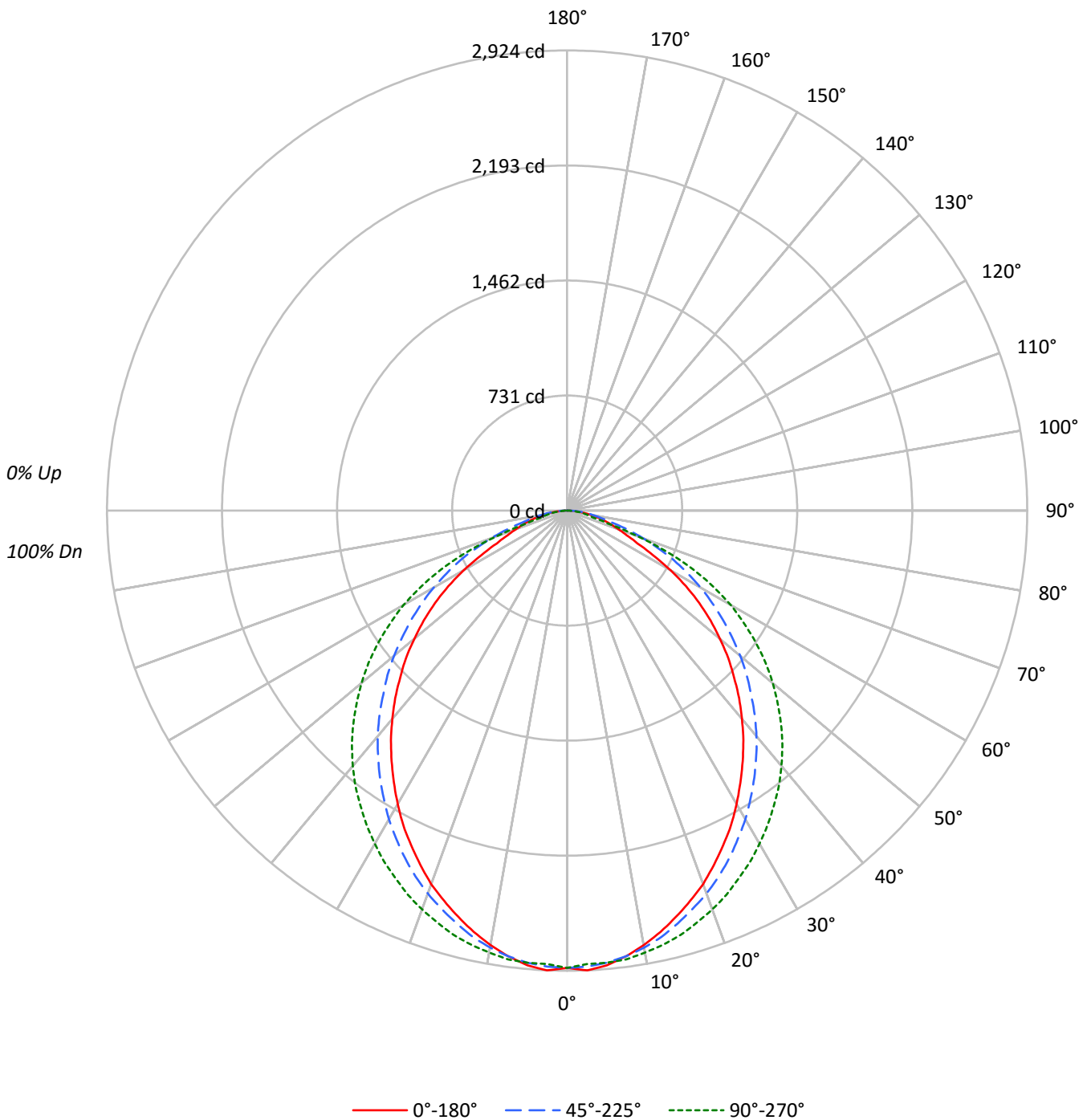
Input Watts (W): 70.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	34118	34118	34118
5°	34178	33899	33866
10°	33417	33430	33746
15°	32468	32724	33530
20°	31528	31979	33171
25°	30359	31100	32746
30°	29150	30150	32336
35°	27821	29048	31848
40°	26422	27929	31322
45°	24841	26572	30594
50°	23071	25241	29621
55°	20922	23624	28229
60°	17783	21786	26195
65°	13617	19471	22453
70°	11781	16202	14531
75°	10833	12020	6793
80°	9641	9627	5806
85°	8069	8145	4333



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.1	3.9
10°-20°	765.8	11.1
20°-30°	1123.2	16.2
30°-40°	1302.6	18.8
40°-50°	1289.7	18.7
50°-60°	1088.2	15.7
60°-70°	705.3	10.2
70°-80°	285.3	4.1
80°-90°	79.2	1.1
90°-100°	1.8	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°	2162.1	31.3
0°-40°	3464.7	50.1
0°-60°	5842.6	84.5
0°-90°	6912.3	100.0
90°-120°	1.8	0.0
90°-150°	1.8	0.0
90°-180°	2.0	0.0
0°-180°	6914.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2906	2906	2906	2906	2906	
5°	2900	2871	2884	2881	2884	274
15°	2673	2659	2715	2764	2790	753
25°	2346	2346	2437	2512	2579	1080
35°	1944	1958	2073	2182	2290	1216
45°	1500	1532	1652	1792	1923	1158
55°	1026	1079	1208	1350	1465	911
65°	493	570	750	841	884	511
75°	241	252	297	244	174	256
85°	62	72	83	67	48	68
90°	0	11	19	13	0	4
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°	2905.5	2905.5	2905.5	2905.5	2905.5
2.5°	2924.3	2892.1	2900.2	2894.8	2884.1
5°	2900.2	2870.7	2884.1	2881.4	2884.1
7.5°	2857.3	2833.2	2857.3	2865.4	2876.1
10°	2803.8	2785.0	2819.8	2838.6	2852.0
12.5°	2742.2	2726.1	2774.3	2803.8	2825.2
15°	2672.6	2659.2	2715.4	2763.6	2790.4
17.5°	2600.3	2589.5	2653.8	2715.4	2744.9
20°	2525.3	2514.6	2589.5	2651.1	2696.7
22.5°	2436.9	2431.5	2517.2	2581.5	2643.1
25°	2345.9	2345.9	2436.9	2511.9	2578.8
27.5°	2254.8	2254.8	2351.2	2434.2	2517.2
30°	2153.0	2161.1	2265.5	2356.6	2444.9
32.5°	2048.6	2062.0	2169.1	2270.9	2370.0
35°	1944.2	1957.6	2072.7	2182.5	2289.6
37.5°	1839.7	1858.5	1973.6	2088.8	2209.3
40°	1727.3	1751.4	1871.9	1992.4	2118.2
42.5°	1617.5	1644.2	1764.7	1893.3	2024.5
45°	1499.6	1531.8	1652.3	1791.5	1922.7
47.5°	1389.8	1422.0	1547.8	1684.4	1815.6
50°	1266.7	1306.8	1435.4	1577.3	1705.8
52.5°	1148.8	1194.3	1320.2	1464.8	1590.7
55°	1025.6	1079.2	1207.7	1349.7	1464.8
57.5°	894.4	958.7	1092.6	1229.2	1333.6
60°	760.5	838.2	980.1	1106.0	1199.7
62.5°	615.9	707.0	862.3	980.1	1047.1
65°	492.7	570.4	749.8	840.9	883.7
67.5°	409.7	455.2	626.6	693.6	693.6
70°	345.5	369.6	514.2	530.2	474.0
72.5°	291.9	305.3	401.7	361.5	270.5
75°	241.0	251.7	297.2	243.7	174.1
77.5°	192.8	200.8	224.9	184.8	136.6
80°	144.6	155.3	168.7	141.9	107.1
82.5°	101.8	109.8	125.9	104.4	77.7
85°	61.6	72.3	83.0	66.9	48.2
87.5°	26.8	34.8	45.5	34.8	21.4
90°	0.0	10.7	18.7	13.4	0.0
92.5°	0.0	0.0	2.7	2.7	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)