

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: P256942

Luminaire Tested: **HGL-S-BF-60L835-UNV-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256942
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-60L835-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: 5115.7 lumens
Efficiency: N/A
Efficacy: 107.5 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

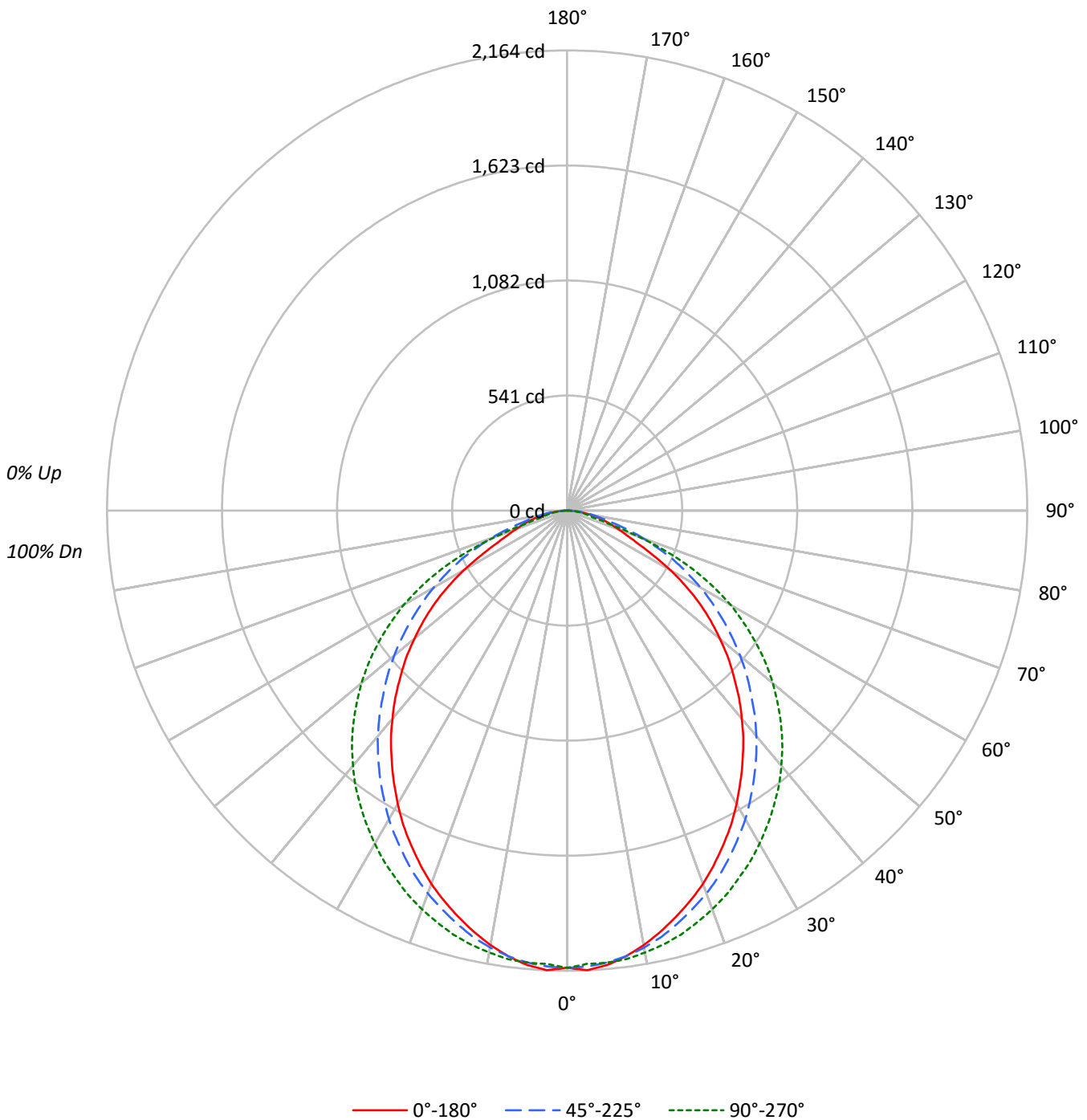
Input Watts (W): 47.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	25244	25244	25244
5°	25288	25081	25057
10°	24725	24735	24968
15°	24022	24212	24809
20°	23326	23661	24542
25°	22462	23010	24228
30°	21568	22307	23925
35°	20585	21493	23565
40°	19549	20665	23175
45°	18380	19660	22636
50°	17070	18675	21916
55°	15481	17480	20886
60°	13158	16120	19380
65°	10076	14407	16611
70°	8716	11986	10751
75°	8015	8894	5025
80°	7134	7122	4299
85°	5973	6026	3209



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.1	3.9
10°-20°	566.6	11.1
20°-30°	831.1	16.2
30°-40°	963.8	18.8
40°-50°	954.2	18.7
50°-60°	805.2	15.7
60°-70°	521.8	10.2
70°-80°	211.1	4.1
80°-90°	58.6	1.1
90°-100°	1.4	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°	1599.7	31.3
0°-40°	2563.5	50.1
0°-60°	4322.9	84.5
0°-90°	5114.3	100.0
90°-120°	1.4	0.0
90°-150°	1.4	0.0
90°-180°	1.0	0.0
0°-180°	5115.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2150	2150	2150	2150	2150	
5°	2146	2124	2134	2132	2134	202
15°	1977	1968	2009	2045	2065	557
25°	1736	1736	1803	1858	1908	799
35°	1438	1448	1534	1615	1694	899
45°	1110	1133	1222	1326	1423	856
55°	759	798	894	999	1084	674
65°	365	422	555	622	654	378
75°	178	186	220	180	129	189
85°	46	54	61	50	36	50
90°	0	8	14	10	0	3
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°	2149.8	2149.8	2149.8	2149.8	2149.8
2.5°	2163.6	2139.9	2145.8	2141.8	2133.9
5°	2145.8	2124.0	2133.9	2131.9	2133.9
7.5°	2114.1	2096.3	2114.1	2120.0	2128.0
10°	2074.5	2060.6	2086.4	2100.2	2110.1
12.5°	2028.9	2017.0	2052.7	2074.5	2090.3
15°	1977.4	1967.5	2009.1	2044.8	2064.6
17.5°	1923.9	1916.0	1963.5	2009.1	2030.9
20°	1868.4	1860.5	1916.0	1961.5	1995.2
22.5°	1803.0	1799.1	1862.5	1910.0	1955.6
25°	1735.7	1735.7	1803.0	1858.5	1908.0
27.5°	1668.3	1668.3	1739.6	1801.0	1862.5
30°	1593.0	1599.0	1676.2	1743.6	1809.0
32.5°	1515.7	1525.6	1604.9	1680.2	1753.5
35°	1438.5	1448.4	1533.6	1614.8	1694.1
37.5°	1361.2	1375.1	1460.3	1545.5	1634.6
40°	1278.0	1295.8	1385.0	1474.1	1567.2
42.5°	1196.7	1216.5	1305.7	1400.8	1497.9
45°	1109.6	1133.3	1222.5	1325.5	1422.6
47.5°	1028.3	1052.1	1145.2	1246.3	1343.4
50°	937.2	966.9	1062.0	1167.0	1262.1
52.5°	850.0	883.7	976.8	1083.8	1176.9
55°	758.9	798.5	893.6	998.6	1083.8
57.5°	661.8	709.3	808.4	909.4	986.7
60°	562.7	620.2	725.2	818.3	887.6
62.5°	455.7	523.1	638.0	725.2	774.7
65°	364.6	422.0	554.8	622.1	653.8
67.5°	303.1	336.8	463.6	513.2	513.2
70°	255.6	273.4	380.4	392.3	350.7
72.5°	216.0	225.9	297.2	267.5	200.1
75°	178.3	186.2	219.9	180.3	128.8
77.5°	142.7	148.6	166.4	136.7	101.0
80°	107.0	114.9	124.8	105.0	79.3
82.5°	75.3	81.2	93.1	77.3	57.5
85°	45.6	53.5	61.4	49.5	35.7
87.5°	19.8	25.8	33.7	25.8	15.9
90°	0.0	7.9	13.9	9.9	0.0
92.5°	0.0	0.0	2.0	2.0	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)