

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: P256935

Luminaire Tested: **HGL-S-BF-53L830-UNV-4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P256935  
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-53L830-UNV-4  
Description: HUGO 4 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH FROSTED LENS  
Light Source: (168) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4344.6 lumens  
Efficiency: N/A  
Efficacy: 104.7 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

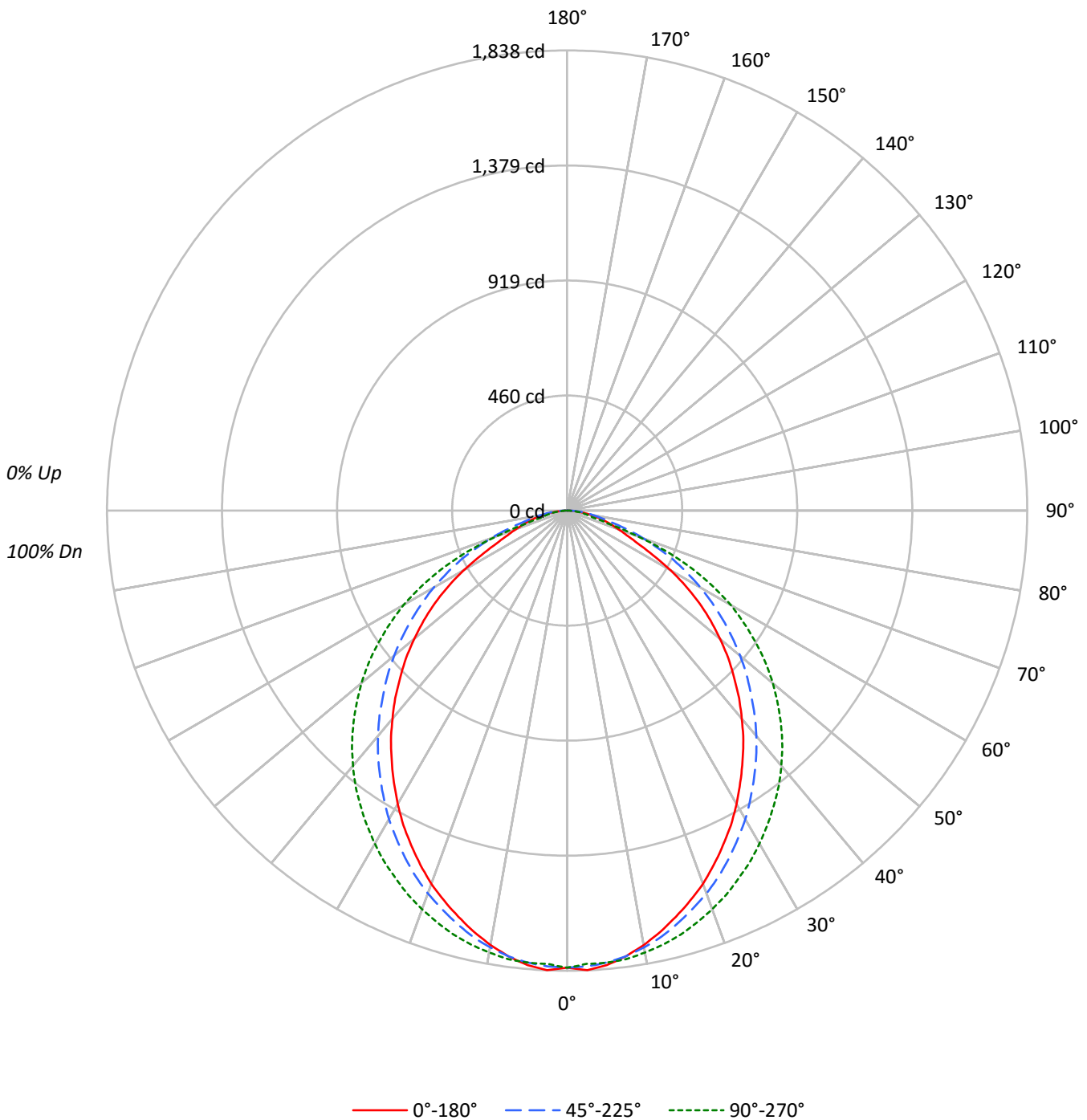
Input Watts (W): 41.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	21438	21438	21438
5°	21476	21301	21281
10°	20998	21007	21205
15°	20401	20563	21069
20°	19811	20095	20843
25°	19075	19543	20576
30°	18318	18946	20319
35°	17481	18253	20012
40°	16601	17549	19682
45°	15609	16696	19225
50°	14496	15859	18613
55°	13147	14845	17737
60°	11175	13691	16459
65°	8556	12236	14109
70°	7403	10180	9130
75°	6805	7555	4268
80°	6061	6049	3648
85°	5069	5123	2724



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	171.6	3.9
10°-20°	481.2	11.1
20°-30°	705.8	16.2
30°-40°	818.5	18.8
40°-50°	810.4	18.7
50°-60°	683.8	15.7
60°-70°	443.2	10.2
70°-80°	179.3	4.1
80°-90°	49.7	1.1
90°-100°	1.2	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°	1358.6	31.3
0°-40°	2177.1	50.1
0°-60°	3671.3	84.5
0°-90°	4343.5	100.0
90°-120°	1.2	0.0
90°-150°	1.2	0.0
90°-180°	1.0	0.0
0°-180°	4344.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1826	1826	1826	1826	1826	
5°	1822	1804	1812	1811	1812	172
15°	1679	1671	1706	1736	1753	473
25°	1474	1474	1531	1578	1620	679
35°	1222	1230	1302	1371	1439	764
45°	942	962	1038	1126	1208	727
55°	644	678	759	848	920	573
65°	310	358	471	528	555	321
75°	151	158	187	153	109	161
85°	39	45	52	42	30	43
90°	0	7	12	8	0	2
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°	1825.7	1825.7	1825.7	1825.7	1825.7
2.5°	1837.5	1817.3	1822.4	1819.0	1812.3
5°	1822.4	1803.9	1812.3	1810.6	1812.3
7.5°	1795.4	1780.3	1795.4	1800.5	1807.2
10°	1761.8	1750.0	1771.9	1783.7	1792.1
12.5°	1723.1	1713.0	1743.3	1761.8	1775.2
15°	1679.3	1670.9	1706.3	1736.5	1753.4
17.5°	1633.9	1627.2	1667.6	1706.3	1724.8
20°	1586.8	1580.1	1627.2	1665.9	1694.5
22.5°	1531.3	1527.9	1581.7	1622.1	1660.8
25°	1474.0	1474.0	1531.3	1578.4	1620.4
27.5°	1416.8	1416.8	1477.4	1529.6	1581.7
30°	1352.9	1357.9	1423.6	1480.8	1536.3
32.5°	1287.3	1295.7	1363.0	1426.9	1489.2
35°	1221.6	1230.1	1302.4	1371.4	1438.7
37.5°	1156.0	1167.8	1240.1	1312.5	1388.2
40°	1085.3	1100.5	1176.2	1251.9	1331.0
42.5°	1016.3	1033.2	1108.9	1189.7	1272.1
45°	942.3	962.5	1038.2	1125.7	1208.2
47.5°	873.3	893.5	972.6	1058.4	1140.9
50°	795.9	821.2	901.9	991.1	1071.9
52.5°	721.9	750.5	829.6	920.4	999.5
55°	644.5	678.1	758.9	848.1	920.4
57.5°	562.0	602.4	686.5	772.4	838.0
60°	477.9	526.7	615.9	695.0	753.8
62.5°	387.0	444.2	541.8	615.9	657.9
65°	309.6	358.4	471.2	528.4	555.3
67.5°	257.5	286.1	393.8	435.8	435.8
70°	217.1	232.2	323.1	333.2	297.8
72.5°	183.4	191.8	252.4	227.2	170.0
75°	151.4	158.2	186.8	153.1	109.4
77.5°	121.2	126.2	141.3	116.1	85.8
80°	90.9	97.6	106.0	89.2	67.3
82.5°	63.9	69.0	79.1	65.6	48.8
85°	38.7	45.4	52.2	42.1	30.3
87.5°	16.8	21.9	28.6	21.9	13.5
90°	0.0	6.7	11.8	8.4	0.0
92.5°	0.0	0.0	1.7	1.7	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)