

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: P256936

Luminaire Tested: **HGL-S-BF-60L830-UNV-4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P256936  
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-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: 4931.1 lumens  
Efficiency: N/A  
Efficacy: 103.6 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

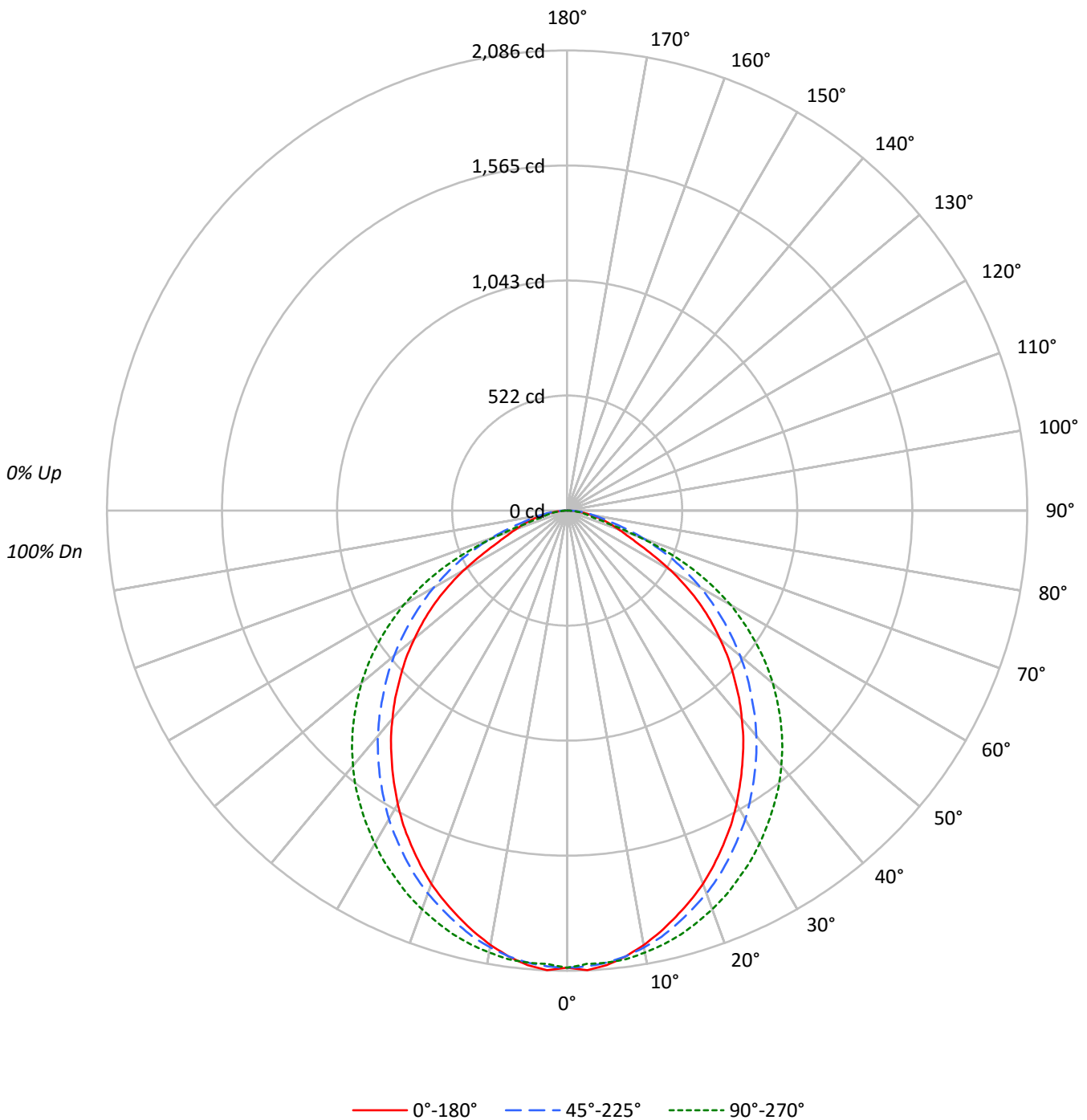
Input Watts (W): 47.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	24333	24333	24333
5°	24375	24176	24153
10°	23832	23842	24067
15°	23155	23339	23913
20°	22485	22807	23657
25°	21651	22181	23354
30°	20790	21502	23062
35°	19842	20717	22713
40°	18844	19919	22339
45°	17716	18951	21820
50°	16454	18001	21126
55°	14922	16848	20133
60°	12683	15538	18682
65°	9712	13888	16014
70°	8402	11554	10362
75°	7727	8574	4842
80°	6874	6865	4141
85°	5750	5810	3092



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	194.8	3.9
10°-20°	546.1	11.1
20°-30°	801.1	16.2
30°-40°	929.0	18.8
40°-50°	919.8	18.7
50°-60°	776.1	15.7
60°-70°	503.0	10.2
70°-80°	203.5	4.1
80°-90°	56.5	1.1
90°-100°	1.3	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°	1542.0	31.3
0°-40°	2471.0	50.1
0°-60°	4166.9	84.5
0°-90°	4929.8	100.0
90°-120°	1.3	0.0
90°-150°	1.3	0.0
90°-180°	1.0	0.0
0°-180°	4931.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2072	2072	2072	2072	2072	
5°	2068	2047	2057	2055	2057	195
15°	1906	1896	1937	1971	1990	537
25°	1673	1673	1738	1791	1839	770
35°	1387	1396	1478	1556	1633	867
45°	1070	1092	1178	1278	1371	826
55°	732	770	861	963	1045	650
65°	351	407	535	600	630	365
75°	172	180	212	174	124	183
85°	44	52	59	48	34	48
90°	0	8	13	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°	2072.2	2072.2	2072.2	2072.2	2072.2
2.5°	2085.6	2062.6	2068.4	2064.6	2056.9
5°	2068.4	2047.4	2056.9	2055.0	2056.9
7.5°	2037.8	2020.6	2037.8	2043.5	2051.2
10°	1999.6	1986.2	2011.1	2024.4	2034.0
12.5°	1955.7	1944.2	1978.6	1999.6	2014.9
15°	1906.0	1896.5	1936.6	1971.0	1990.1
17.5°	1854.5	1846.8	1892.7	1936.6	1957.6
20°	1801.0	1793.4	1846.8	1890.8	1923.2
22.5°	1738.0	1734.1	1795.3	1841.1	1885.0
25°	1673.0	1673.0	1738.0	1791.4	1839.2
27.5°	1608.1	1608.1	1676.9	1736.1	1795.3
30°	1535.5	1541.3	1615.7	1680.7	1743.7
32.5°	1461.0	1470.6	1547.0	1619.6	1690.2
35°	1386.6	1396.1	1478.2	1556.5	1632.9
37.5°	1312.1	1325.4	1407.6	1489.7	1575.6
40°	1231.9	1249.0	1335.0	1420.9	1510.7
42.5°	1153.6	1172.6	1258.6	1350.3	1443.8
45°	1069.5	1092.4	1178.4	1277.7	1371.3
47.5°	991.2	1014.1	1103.9	1201.3	1294.9
50°	903.4	932.0	1023.7	1124.9	1216.6
52.5°	819.3	851.8	941.6	1044.7	1134.5
55°	731.5	769.7	861.3	962.6	1044.7
57.5°	637.9	683.7	779.2	876.6	951.1
60°	542.4	597.8	699.0	788.8	855.6
62.5°	439.3	504.2	615.0	699.0	746.8
65°	351.4	406.8	534.8	599.7	630.3
67.5°	292.2	324.7	446.9	494.7	494.7
70°	246.4	263.6	366.7	378.2	338.0
72.5°	208.2	217.7	286.5	257.8	192.9
75°	171.9	179.5	212.0	173.8	124.1
77.5°	137.5	143.2	160.4	131.8	97.4
80°	103.1	110.8	120.3	101.2	76.4
82.5°	72.6	78.3	89.8	74.5	55.4
85°	43.9	51.6	59.2	47.7	34.4
87.5°	19.1	24.8	32.5	24.8	15.3
90°	0.0	7.6	13.4	9.5	0.0
92.5°	0.0	0.0	1.9	1.9	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)