

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: P256972

Luminaire Tested: **HGL-S-BF-30L840-UNV-8**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P256972  
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-30L840-UNV-8  
Description: HUGO 8 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH FROSTED LENS  
Light Source: (336) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5436.9 lumens  
Efficiency: N/A  
Efficacy: 121.9 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

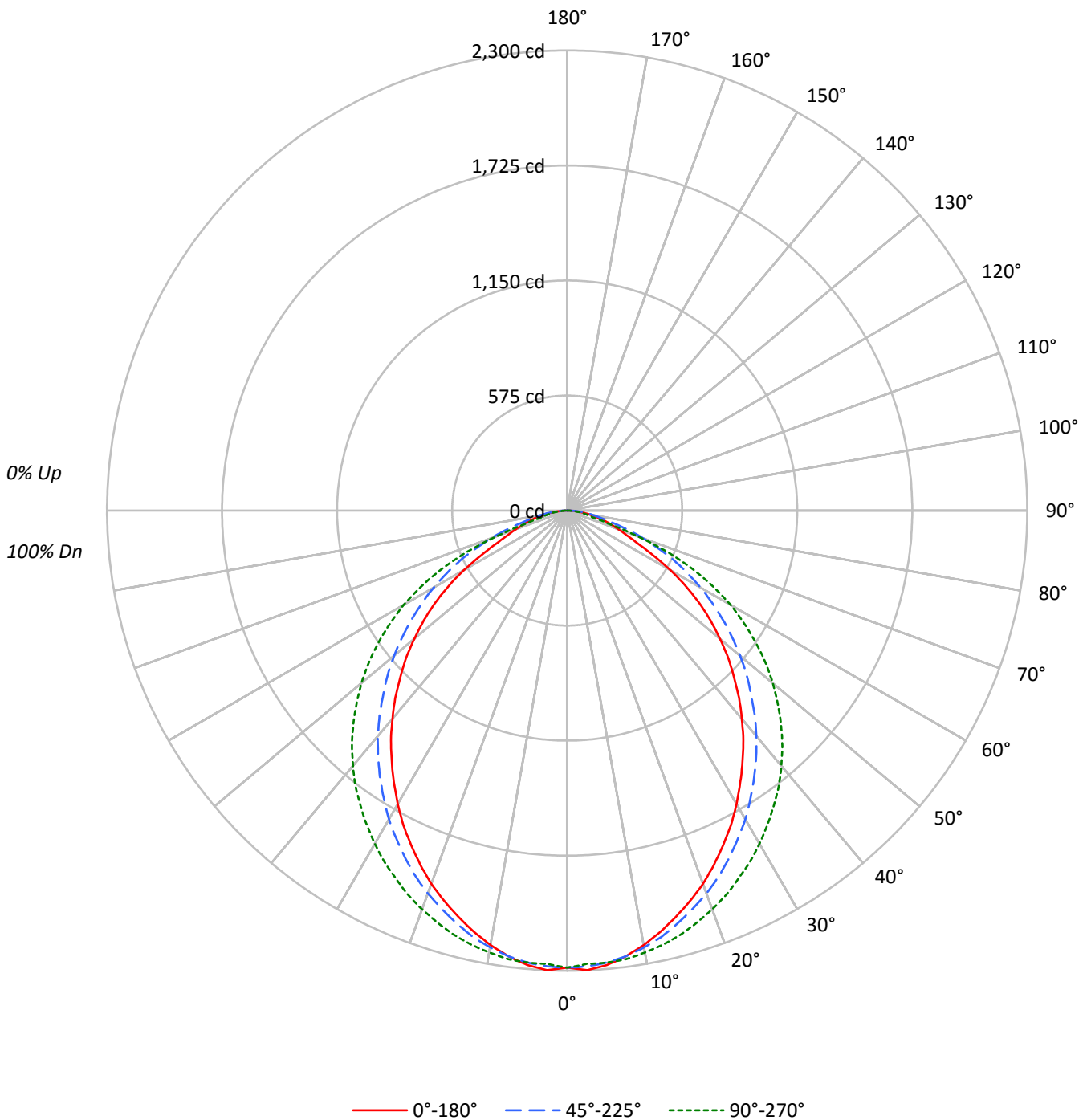
Input Watts (W): 44.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	13415	13415	13415
5°	13440	13329	13315
10°	13141	13146	13268
15°	12770	12870	13183
20°	12401	12578	13042
25°	11943	12233	12875
30°	11469	11860	12714
35°	10948	11428	12522
40°	10399	10988	12316
45°	9779	10456	12029
50°	9084	9934	11647
55°	8241	9300	11099
60°	7007	8578	10299
65°	5369	7669	8828
70°	4646	6384	5713
75°	4279	4740	2671
80°	3817	3802	2282
85°	3215	3228	1703



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	214.7	3.9
10°-20°	602.2	11.1
20°-30°	883.3	16.2
30°-40°	1024.3	18.8
40°-50°	1014.1	18.7
50°-60°	855.7	15.7
60°-70°	554.6	10.2
70°-80°	224.4	4.1
80°-90°	62.2	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°	1700.2	31.3
0°-40°	2724.5	50.1
0°-60°	4594.3	84.5
0°-90°	5435.5	100.0
90°-120°	1.4	0.0
90°-150°	1.4	0.0
90°-180°	1.0	0.0
0°-180°	5436.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2285	2285	2285	2285	2285	
5°	2281	2257	2268	2266	2268	215
15°	2102	2091	2135	2173	2194	592
25°	1845	1845	1916	1975	2028	849
35°	1529	1539	1630	1716	1800	956
45°	1179	1204	1299	1409	1512	910
55°	806	849	950	1061	1152	717
65°	388	448	590	661	695	402
75°	190	198	234	192	137	201
85°	48	57	65	53	38	53
90°	0	8	15	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°	2284.8	2284.8	2284.8	2284.8	2284.8
2.5°	2299.5	2274.2	2280.6	2276.3	2267.9
5°	2280.6	2257.4	2267.9	2265.8	2267.9
7.5°	2246.9	2227.9	2246.9	2253.2	2261.6
10°	2204.7	2190.0	2217.4	2232.1	2242.7
12.5°	2156.3	2143.7	2181.6	2204.7	2221.6
15°	2101.6	2091.0	2135.3	2173.2	2194.2
17.5°	2044.7	2036.3	2086.8	2135.3	2158.4
20°	1985.7	1977.3	2036.3	2084.7	2120.5
22.5°	1916.3	1912.0	1979.4	2030.0	2078.4
25°	1844.7	1844.7	1916.3	1975.2	2027.9
27.5°	1773.1	1773.1	1848.9	1914.1	1979.4
30°	1693.0	1699.4	1781.5	1853.1	1922.6
32.5°	1610.9	1621.4	1705.7	1785.7	1863.6
35°	1528.8	1539.3	1629.9	1716.2	1800.4
37.5°	1446.7	1461.4	1552.0	1642.5	1737.3
40°	1358.2	1377.2	1471.9	1566.7	1665.7
42.5°	1271.9	1292.9	1387.7	1488.8	1592.0
45°	1179.2	1204.5	1299.3	1408.8	1511.9
47.5°	1092.9	1118.2	1217.1	1324.5	1427.7
50°	996.0	1027.6	1128.7	1240.3	1341.4
52.5°	903.4	939.2	1038.1	1151.9	1250.8
55°	806.5	848.6	949.7	1061.3	1151.9
57.5°	703.3	753.9	859.2	966.6	1048.7
60°	598.0	659.1	770.7	869.7	943.4
62.5°	484.3	555.9	678.1	770.7	823.4
65°	387.5	448.5	589.6	661.2	694.9
67.5°	322.2	358.0	492.8	545.4	545.4
70°	271.6	290.6	404.3	416.9	372.7
72.5°	229.5	240.1	315.9	284.3	212.7
75°	189.5	197.9	233.7	191.6	136.9
77.5°	151.6	157.9	176.9	145.3	107.4
80°	113.7	122.1	132.7	111.6	84.2
82.5°	80.0	86.3	99.0	82.1	61.1
85°	48.4	56.9	65.3	52.6	37.9
87.5°	21.1	27.4	35.8	27.4	16.8
90°	0.0	8.4	14.7	10.5	0.0
92.5°	0.0	0.0	2.1	2.1	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)