

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: P256962

Luminaire Tested: **HGL-S-BF-30L830-UNV-8**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P256962  
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-30L830-UNV-8  
Description: HUGO 8 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH FROSTED LENS  
Light Source: (336) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5163.8 lumens  
Efficiency: N/A  
Efficacy: 115.8 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

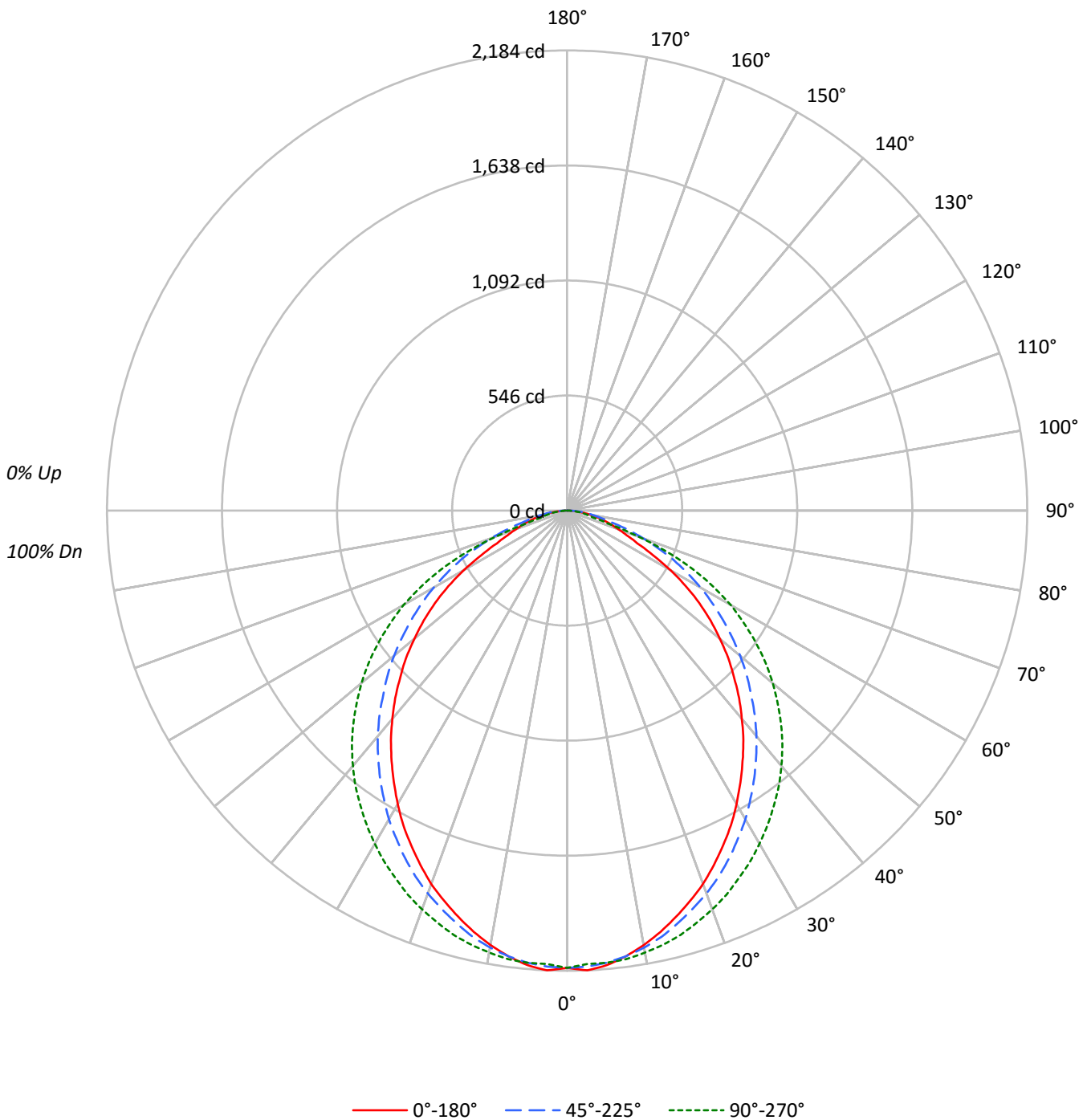
Input Watts (W): 44.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					86			
2	101	93	87	81	98	91	85	80	88	83	78	84	80	77	81	78	75	73					73			
3	92	82	75	68	90	81	74	68	78	72	67	75	70	66	73	68	64	62					62			
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54					54			
5	78	66	57	51	76	65	57	51	63	56	50	61	54	50	59	53	49	47					47			
6	72	59	51	45	70	59	50	45	57	50	44	55	49	44	54	48	43	41					41			
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39	37					37			
8	63	49	41	36	61	49	41	35	47	40	35	46	40	35	45	39	35	33					33			
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30					30			
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27					27			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	12741	12741	12741
5°	12764	12660	12647
10°	12481	12486	12602
15°	12128	12223	12521
20°	11778	11946	12387
25°	11343	11618	12228
30°	10894	11264	12075
35°	10398	10854	11893
40°	9877	10437	11697
45°	9288	9931	11425
50°	8628	9435	11061
55°	7827	8833	10541
60°	6655	8148	9782
65°	5099	7284	8384
70°	4414	6063	5426
75°	4064	4503	2536
80°	3626	3610	2168
85°	3055	3065	1618



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	204.0	3.9
10°-20°	571.9	11.1
20°-30°	838.9	16.2
30°-40°	972.8	18.8
40°-50°	963.2	18.7
50°-60°	812.8	15.7
60°-70°	526.7	10.2
70°-80°	213.1	4.1
80°-90°	59.1	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°	1614.8	31.3
0°-40°	2587.6	50.1
0°-60°	4363.5	84.5
0°-90°	5162.5	100.0
90°-120°	1.4	0.0
90°-150°	1.4	0.0
90°-180°	1.0	0.0
0°-180°	5163.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2170	2170	2170	2170	2170	
5°	2166	2144	2154	2152	2154	204
15°	1996	1986	2028	2064	2084	562
25°	1752	1752	1820	1876	1926	807
35°	1452	1462	1548	1630	1710	908
45°	1120	1144	1234	1338	1436	865
55°	766	806	902	1008	1094	681
65°	368	426	560	628	660	382
75°	180	188	222	182	130	191
85°	46	54	62	50	36	51
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°	2170	2170	2170	2170	2170
2.5°	2184	2160	2166	2162	2154
5°	2166	2144	2154	2152	2154
7.5°	2134	2116	2134	2140	2148
10°	2094	2080	2106	2120	2130
12.5°	2048	2036	2072	2094	2110
15°	1996	1986	2028	2064	2084
17.5°	1942	1934	1982	2028	2050
20°	1886	1878	1934	1980	2014
22.5°	1820	1816	1880	1928	1974
25°	1752	1752	1820	1876	1926
27.5°	1684	1684	1756	1818	1880
30°	1608	1614	1692	1760	1826
32.5°	1530	1540	1620	1696	1770
35°	1452	1462	1548	1630	1710
37.5°	1374	1388	1474	1560	1650
40°	1290	1308	1398	1488	1582
42.5°	1208	1228	1318	1414	1512
45°	1120	1144	1234	1338	1436
47.5°	1038	1062	1156	1258	1356
50°	946	976	1072	1178	1274
52.5°	858	892	986	1094	1188
55°	766	806	902	1008	1094
57.5°	668	716	816	918	996
60°	568	626	732	826	896
62.5°	460	528	644	732	782
65°	368	426	560	628	660
67.5°	306	340	468	518	518
70°	258	276	384	396	354
72.5°	218	228	300	270	202
75°	180	188	222	182	130
77.5°	144	150	168	138	102
80°	108	116	126	106	80
82.5°	76	82	94	78	58
85°	46	54	62	50	36
87.5°	20	26	34	26	16
90°	0	8	14	10	0
92.5°	0	0	2	2	0
95°	0	0	0	0	0
97.5°	0	0	0	0	0
100°	0	0	0	0	0
102.5°	0	0	0	0	0
105°	0	0	0	0	0
107.5°	0	0	0	0	0
110°	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
115°	0	0	0	0	0
117.5°	0	0	0	0	0
120°	0	0	0	0	0
122.5°	0	0	0	0	0
125°	0	0	0	0	0
127.5°	0	0	0	0	0
130°	0	0	0	0	0
132.5°	0	0	0	0	0
135°	0	0	0	0	0
137.5°	0	0	0	0	0
140°	0	0	0	0	0
142.5°	0	0	0	0	0
145°	0	0	0	0	0
147.5°	0	0	0	0	0
150°	0	0	0	0	0
152.5°	0	0	0	0	0
155°	0	0	0	0	0
157.5°	0	0	0	0	0
160°	0	0	0	0	0
162.5°	0	0	0	0	0
165°	0	0	0	0	0
167.5°	0	0	0	0	0
170°	0	0	0	0	0
172.5°	0	0	0	0	0
175°	0	0	0	0	0
177.5°	0	0	0	0	0
180°	0	0	0	0	0

(END OF REPORT)