

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: P256961

Luminaire Tested: **HGL-S-BF-80L940-UNV-4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P256961  
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-80L940-UNV-4  
Description: HUGO 4 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH FROSTED LENS  
Light Source: (168) 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5296.4 lumens  
Efficiency: N/A  
Efficacy: 74.7 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

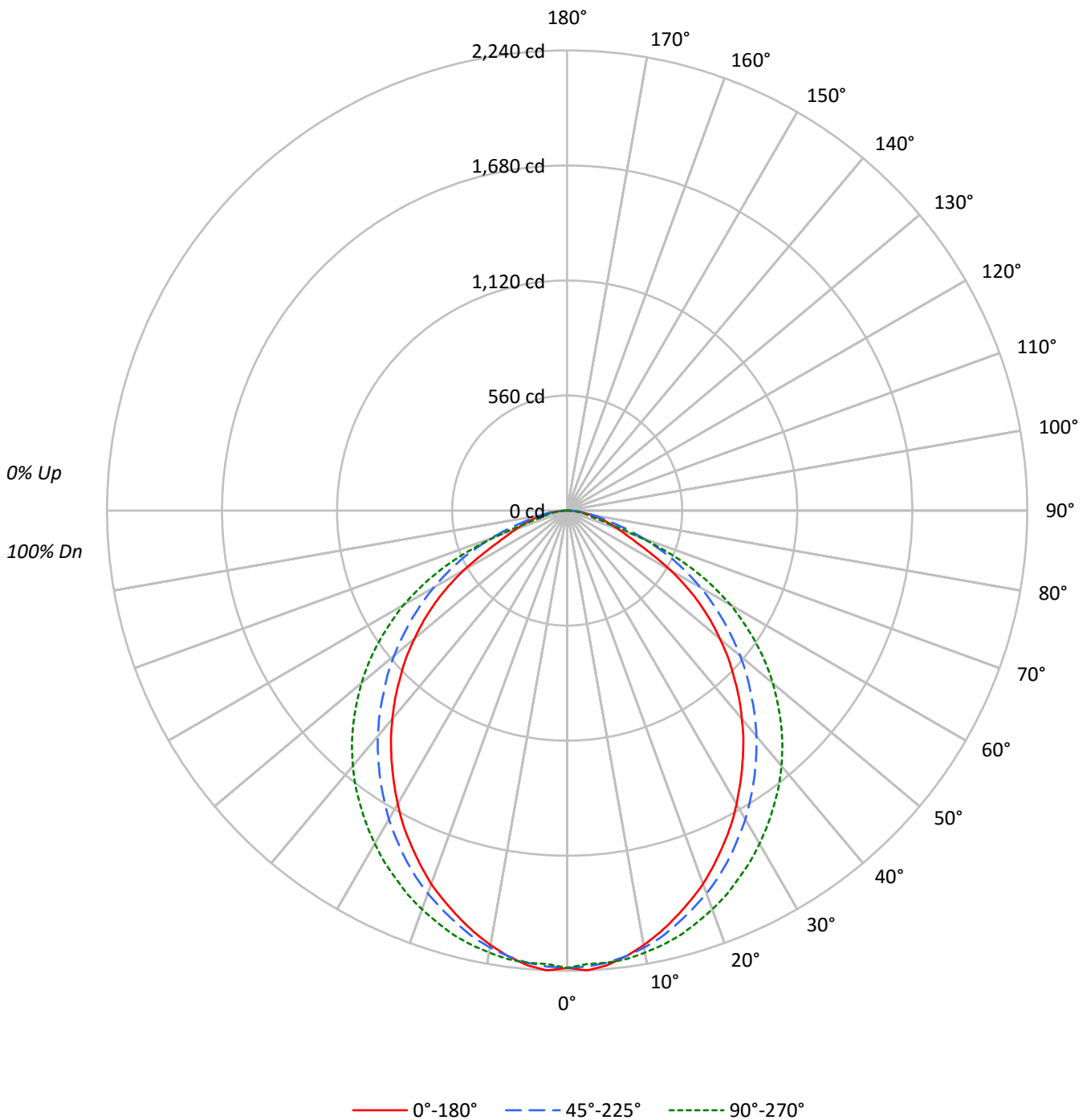
Input Watts (W): 70.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	26135	26135	26135
5°	26181	25968	25943
10°	25597	25609	25851
15°	24870	25068	25685
20°	24150	24496	25410
25°	23255	23823	25084
30°	22331	23095	24771
35°	21312	22251	24397
40°	20239	21394	23994
45°	19028	20355	23437
50°	17673	19334	22691
55°	16028	18098	21624
60°	13623	16689	20066
65°	10430	14916	17198
70°	9022	12411	11132
75°	8298	9209	5201
80°	7388	7373	4450
85°	6183	6241	3317



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	209.2	3.9
10°-20°	586.6	11.1
20°-30°	860.4	16.2
30°-40°	997.8	18.8
40°-50°	987.9	18.7
50°-60°	833.6	15.7
60°-70°	540.2	10.2
70°-80°	218.6	4.1
80°-90°	60.6	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°	1656.2	31.3
0°-40°	2654.0	50.1
0°-60°	4475.5	84.5
0°-90°	5295.0	100.0
90°-120°	1.4	0.0
90°-150°	1.4	0.0
90°-180°	1.0	0.0
0°-180°	5296.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2226	2226	2226	2226	2226	
5°	2222	2199	2209	2207	2209	210
15°	2047	2037	2080	2117	2138	577
25°	1797	1797	1867	1924	1975	827
35°	1489	1500	1588	1672	1754	931
45°	1149	1173	1266	1372	1473	887
55°	786	827	925	1034	1122	698
65°	377	437	574	644	677	392
75°	185	193	228	187	133	196
85°	47	55	64	51	37	52
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°	2225.7	2225.7	2225.7	2225.7	2225.7
2.5°	2240.1	2215.4	2221.6	2217.5	2209.3
5°	2221.6	2199.0	2209.3	2207.2	2209.3
7.5°	2188.8	2170.3	2188.8	2194.9	2203.1
10°	2147.7	2133.4	2160.1	2174.4	2184.7
12.5°	2100.6	2088.3	2125.2	2147.7	2164.2
15°	2047.2	2037.0	2080.1	2117.0	2137.5
17.5°	1991.8	1983.6	2032.9	2080.1	2102.6
20°	1934.4	1926.2	1983.6	2030.8	2065.7
22.5°	1866.7	1862.6	1928.3	1977.5	2024.7
25°	1797.0	1797.0	1866.7	1924.2	1975.4
27.5°	1727.2	1727.2	1801.1	1864.7	1928.3
30°	1649.3	1655.4	1735.4	1805.2	1872.9
32.5°	1569.3	1579.5	1661.6	1739.5	1815.4
35°	1489.3	1499.5	1587.7	1671.8	1753.9
37.5°	1409.3	1423.6	1511.8	1600.0	1692.3
40°	1323.1	1341.6	1433.9	1526.2	1622.6
42.5°	1239.0	1259.5	1351.8	1450.3	1550.8
45°	1148.7	1173.4	1265.7	1372.3	1472.9
47.5°	1064.6	1089.3	1185.7	1290.3	1390.8
50°	970.3	1001.1	1099.5	1208.2	1306.7
52.5°	880.0	914.9	1011.3	1122.1	1218.5
55°	785.7	826.7	925.2	1033.9	1122.1
57.5°	685.1	734.4	836.9	941.6	1021.6
60°	582.6	642.1	750.8	847.2	919.0
62.5°	471.8	541.6	660.5	750.8	802.1
65°	377.4	436.9	574.4	644.1	676.9
67.5°	313.9	348.7	480.0	531.3	531.3
70°	264.6	283.1	393.9	406.2	363.1
72.5°	223.6	233.9	307.7	276.9	207.2
75°	184.6	192.8	227.7	186.7	133.3
77.5°	147.7	153.8	172.3	141.5	104.6
80°	110.8	119.0	129.2	108.7	82.1
82.5°	78.0	84.1	96.4	80.0	59.5
85°	47.2	55.4	63.6	51.3	36.9
87.5°	20.5	26.7	34.9	26.7	16.4
90°	0.0	8.2	14.4	10.3	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)