

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: P256957

Luminaire Tested: **HGL-S-BF-40L940-UNV-4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P256957  
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-40L940-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: 2591.5 lumens  
Efficiency: N/A  
Efficacy: 87.6 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

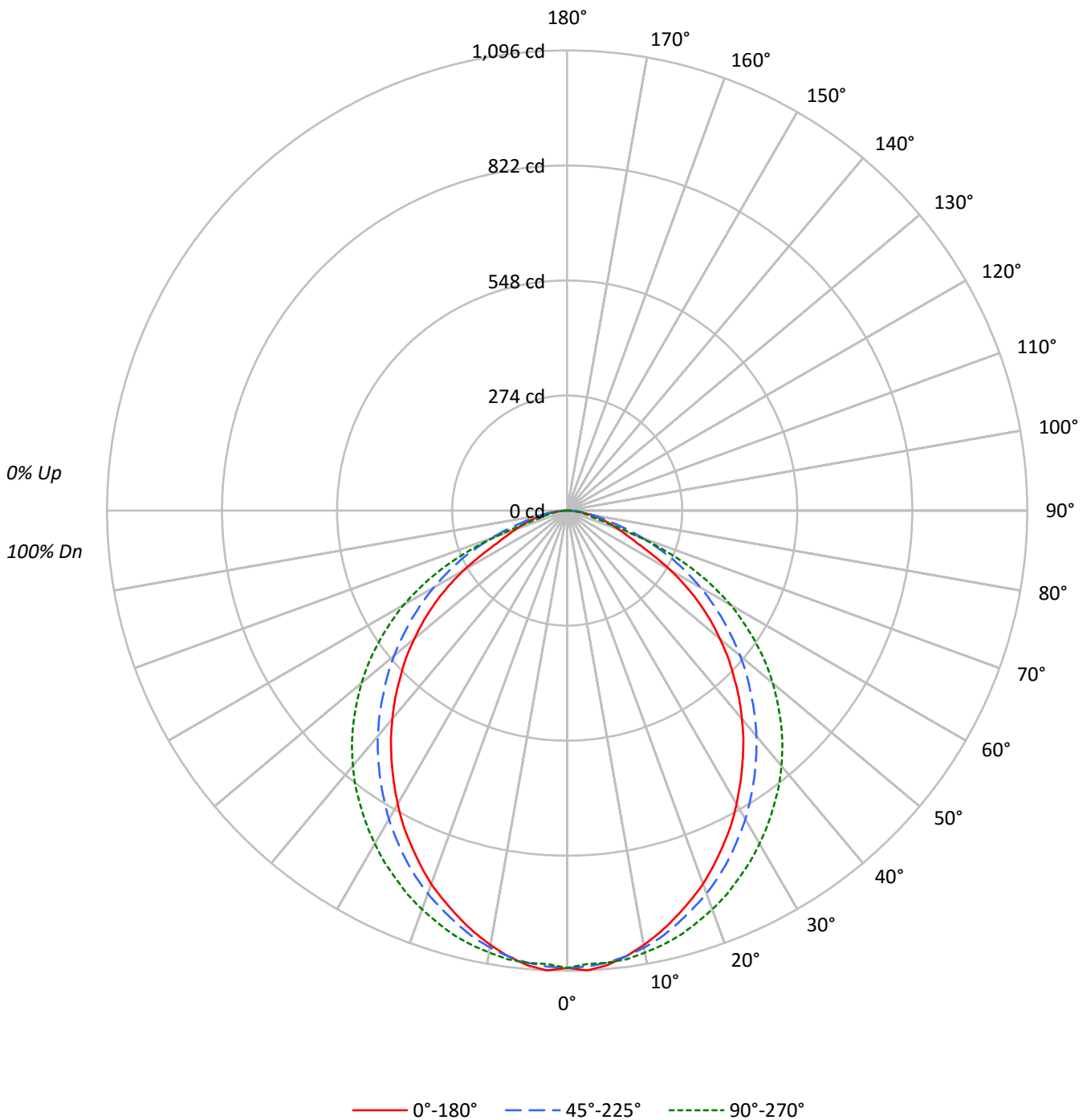
Input Watts (W): 29.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	12788	12788	12788
5°	12810	12706	12694
10°	12525	12530	12649
15°	12169	12266	12568
20°	11817	11986	12432
25°	11379	11657	12274
30°	10926	11300	12120
35°	10428	10888	11937
40°	9903	10468	11740
45°	9311	9959	11468
50°	8648	9460	11103
55°	7842	8855	10580
60°	6667	8167	9819
65°	5105	7297	8415
70°	4416	6072	5448
75°	4059	4506	2544
80°	3614	3606	2174
85°	3026	3052	1627



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.4	3.9
10°-20°	287.0	11.1
20°-30°	421.0	16.2
30°-40°	488.2	18.8
40°-50°	483.4	18.7
50°-60°	407.9	15.7
60°-70°	264.4	10.2
70°-80°	106.9	4.1
80°-90°	29.7	1.1
90°-100°	0.7	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°	810.4	31.3
0°-40°	1298.6	50.1
0°-60°	2189.9	84.5
0°-90°	2590.8	100.0
90°-120°	0.7	0.0
90°-150°	0.7	0.0
90°-180°	1.0	0.0
0°-180°	2591.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1089	1089	1089	1089	1089	
5°	1087	1076	1081	1080	1081	103
15°	1002	997	1018	1036	1046	282
25°	879	879	913	942	967	405
35°	729	734	777	818	858	456
45°	562	574	619	672	721	434
55°	384	404	453	506	549	342
65°	185	214	281	315	331	192
75°	90	94	111	91	65	96
85°	23	27	31	25	18	25
90°	0	4	7	5	0	1
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°	1089.0	1089.0	1089.0	1089.0	1089.0
2.5°	1096.1	1084.0	1087.0	1085.0	1081.0
5°	1087.0	1076.0	1081.0	1080.0	1081.0
7.5°	1071.0	1061.9	1071.0	1074.0	1078.0
10°	1050.9	1043.9	1056.9	1063.9	1069.0
12.5°	1027.8	1021.8	1039.9	1050.9	1058.9
15°	1001.7	996.7	1017.8	1035.8	1045.9
17.5°	974.6	970.6	994.7	1017.8	1028.8
20°	946.5	942.5	970.6	993.7	1010.7
22.5°	913.4	911.4	943.5	967.6	990.7
25°	879.3	879.3	913.4	941.5	966.6
27.5°	845.1	845.1	881.3	912.4	943.5
30°	807.0	810.0	849.1	883.3	916.4
32.5°	767.8	772.9	813.0	851.2	888.3
35°	728.7	733.7	776.9	818.0	858.2
37.5°	689.6	696.6	739.7	782.9	828.1
40°	647.4	656.4	701.6	746.8	793.9
42.5°	606.2	616.3	661.4	709.6	758.8
45°	562.1	574.1	619.3	671.5	720.7
47.5°	520.9	533.0	580.1	631.3	680.5
50°	474.8	489.8	538.0	591.2	639.4
52.5°	430.6	447.7	494.8	549.0	596.2
55°	384.4	404.5	452.7	505.9	549.0
57.5°	335.2	359.3	409.5	460.7	499.9
60°	285.1	314.2	367.4	414.5	449.7
62.5°	230.9	265.0	323.2	367.4	392.5
65°	184.7	213.8	281.0	315.2	331.2
67.5°	153.6	170.6	234.9	260.0	260.0
70°	129.5	138.5	192.7	198.7	177.7
72.5°	109.4	114.4	150.6	135.5	101.4
75°	90.3	94.3	111.4	91.3	65.2
77.5°	72.3	75.3	84.3	69.3	51.2
80°	54.2	58.2	63.2	53.2	40.1
82.5°	38.1	41.2	47.2	39.1	29.1
85°	23.1	27.1	31.1	25.1	18.1
87.5°	10.0	13.0	17.1	13.0	8.0
90°	0.0	4.0	7.0	5.0	0.0
92.5°	0.0	0.0	1.0	1.0	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)