

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: P256960

Luminaire Tested: **HGL-S-BF-60L940-UNV-4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P256960  
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-60L940-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: 3918.7 lumens  
Efficiency: N/A  
Efficacy: 82.3 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

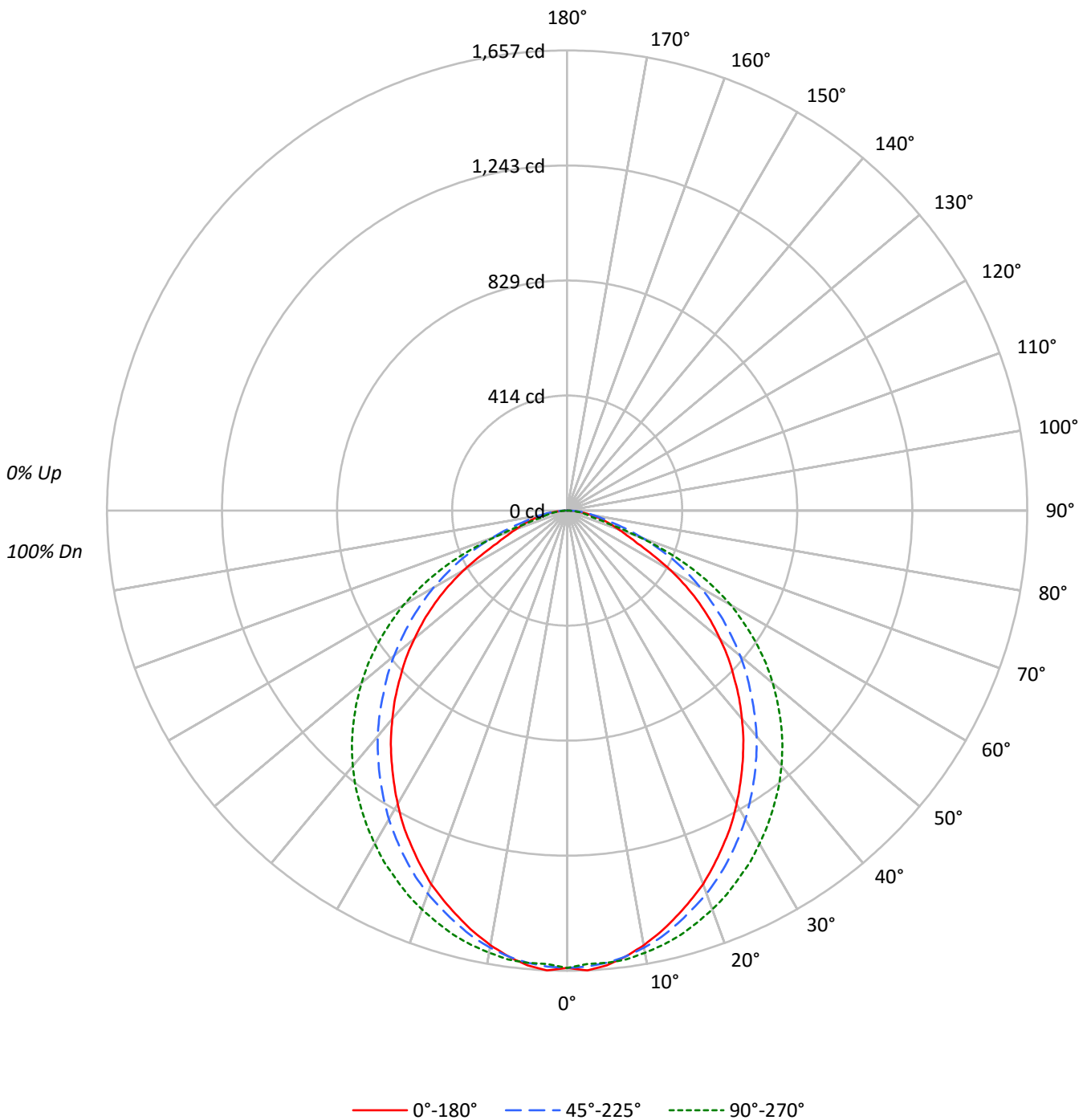
Input Watts (W): 47.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	19337	19337	19337
5°	19371	19213	19194
10°	18939	18947	19126
15°	18401	18547	19004
20°	17868	18125	18800
25°	17207	17627	18559
30°	16522	17088	18327
35°	15768	16463	18051
40°	14975	15829	17752
45°	14079	15060	17339
50°	13076	14305	16788
55°	11858	13389	15999
60°	10078	12348	14848
65°	7719	11036	12727
70°	6676	9182	8235
75°	6140	6815	3851
80°	5467	5455	3290
85°	4571	4622	2454



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	154.8	3.9
10°-20°	434.0	11.1
20°-30°	636.6	16.2
30°-40°	738.3	18.8
40°-50°	730.9	18.7
50°-60°	616.8	15.7
60°-70°	399.7	10.2
70°-80°	161.7	4.1
80°-90°	44.9	1.1
90°-100°	1.0	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°	1225.4	31.3
0°-40°	1963.7	50.1
0°-60°	3311.4	84.5
0°-90°	3917.7	100.0
90°-120°	1.0	0.0
90°-150°	1.0	0.0
90°-180°	1.0	0.0
0°-180°	3918.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1647	1647	1647	1647	1647	
5°	1644	1627	1635	1633	1635	155
15°	1515	1507	1539	1566	1582	427
25°	1330	1330	1381	1424	1462	612
35°	1102	1110	1175	1237	1298	689
45°	850	868	936	1015	1090	656
55°	581	612	684	765	830	516
65°	279	323	425	477	501	290
75°	137	143	168	138	99	145
85°	35	41	47	38	27	38
90°	0	6	11	8	0	2
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°	1646.8	1646.8	1646.8	1646.8	1646.8
2.5°	1657.4	1639.2	1643.7	1640.7	1634.6
5°	1643.7	1627.0	1634.6	1633.1	1634.6
7.5°	1619.4	1605.8	1619.4	1624.0	1630.1
10°	1589.1	1578.5	1598.2	1608.8	1616.4
12.5°	1554.2	1545.1	1572.4	1589.1	1601.2
15°	1514.7	1507.1	1539.0	1566.3	1581.5
17.5°	1473.7	1467.7	1504.1	1539.0	1555.7
20°	1431.2	1425.2	1467.7	1502.6	1528.4
22.5°	1381.2	1378.1	1426.7	1463.1	1498.0
25°	1329.6	1329.6	1381.2	1423.7	1461.6
27.5°	1277.9	1277.9	1332.6	1379.6	1426.7
30°	1220.3	1224.8	1284.0	1335.6	1385.7
32.5°	1161.1	1168.7	1229.4	1287.1	1343.2
35°	1101.9	1109.5	1174.7	1237.0	1297.7
37.5°	1042.7	1053.3	1118.6	1183.8	1252.1
40°	979.0	992.6	1060.9	1129.2	1200.5
42.5°	916.7	931.9	1000.2	1073.1	1147.4
45°	849.9	868.2	936.5	1015.4	1089.7
47.5°	787.7	805.9	877.3	954.7	1029.0
50°	717.9	740.7	813.5	894.0	966.8
52.5°	651.1	676.9	748.3	830.2	901.5
55°	581.3	611.7	684.5	764.9	830.2
57.5°	506.9	543.4	619.2	696.6	755.8
60°	431.0	475.1	555.5	626.8	680.0
62.5°	349.1	400.7	488.7	555.5	593.4
65°	279.3	323.3	425.0	476.6	500.9
67.5°	232.2	258.0	355.2	393.1	393.1
70°	195.8	209.4	291.4	300.5	268.6
72.5°	165.4	173.0	227.7	204.9	153.3
75°	136.6	142.7	168.5	138.1	98.7
77.5°	109.3	113.8	127.5	104.7	77.4
80°	82.0	88.0	95.6	80.4	60.7
82.5°	57.7	62.2	71.3	59.2	44.0
85°	34.9	41.0	47.1	37.9	27.3
87.5°	15.2	19.7	25.8	19.7	12.1
90°	0.0	6.1	10.6	7.6	0.0
92.5°	0.0	0.0	1.5	1.5	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)