

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: P257022

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P257022  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1708-204-1)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: HGL-S-FR-60L940-UNV-4  
Description: HUGO 4 FOOT LINEAR LED LUMINAIRE WITH FROSTED LENS  
Light Source: (168) 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4608.4 lumens  
Efficiency: N/A  
Efficacy: 96.8 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.33  
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 4' x H: 0.01')  
CIE Type: Direct

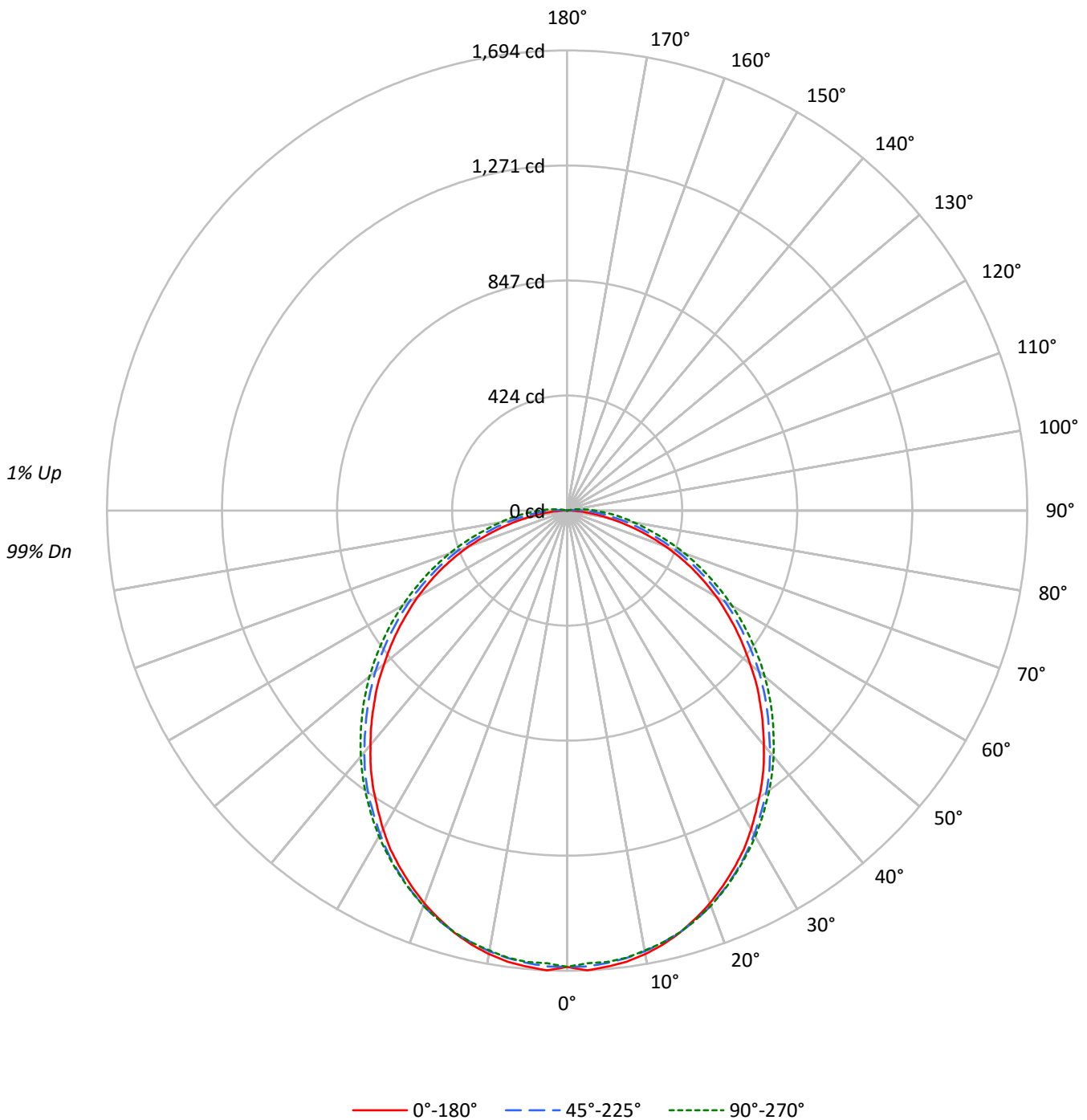
Input Watts (W): 47.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	101	101	101	99
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	82
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	55	50	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	50	44	40	38
7	65	51	43	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33
8	60	47	38	33	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26	24

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

	0°	45°	90°
0°	19721	19721	19721
5°	19862	19655	19584
10°	19756	19529	19457
15°	19532	19359	19303
20°	19196	19114	19039
25°	18800	18745	18689
30°	18342	18322	18323
35°	17816	17879	17908
40°	17232	17331	17480
45°	16649	16751	16994
50°	16015	16207	16488
55°	15430	15539	15901
60°	14846	14927	15302
65°	14111	14171	14683
70°	13121	13369	14084
75°	11705	12307	13414
80°	9855	11607	13481
85°	7859	11914	15120



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	158.7	3.4
10°-20°	451.6	9.8
20°-30°	672.5	14.6
30°-40°	791.5	17.2
40°-50°	799.5	17.3
50°-60°	708.5	15.4
60°-70°	539.1	11.7
70°-80°	323.6	7.0
80°-90°	133.0	2.9
90°-100°	28.9	0.6
100°-110°	1.4	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°	1282.9	27.8
0°-40°	2074.4	45.0
0°-60°	3582.4	77.7
0°-90°	4578.0	99.3
90°-120°	30.3	0.7
90°-150°	30.3	0.7
90°-180°	30.0	0.7
0°-180°	4608.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1680	1680	1680	1680	1680	
5°	1685	1666	1672	1669	1668	160
15°	1608	1592	1606	1605	1606	453
25°	1453	1441	1469	1467	1472	669
35°	1245	1241	1276	1282	1287	778
45°	1005	1010	1042	1056	1068	776
55°	756	767	794	815	825	676
65°	511	518	546	568	578	505
75°	260	272	304	335	344	277
85°	60	79	121	156	168	67
90°	2	25	60	91	102	4
95°	0	2	22	44	53	0
105°	2	0	0	0	2	1
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



TEST NUMBER: P257022

CATALOG NUMBER: HGL-S-FR-60L940-UNV-4

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1679.5	1679.5	1679.5	1679.5	1679.5
2.5°	1694.1	1675.1	1679.5	1676.6	1667.8
5°	1685.4	1666.3	1672.2	1669.3	1667.8
7.5°	1675.1	1656.1	1661.9	1659.0	1660.5
10°	1657.6	1638.5	1647.3	1644.4	1644.4
12.5°	1635.6	1619.5	1628.3	1625.4	1628.3
15°	1607.8	1591.7	1606.4	1604.9	1606.4
17.5°	1574.2	1559.5	1580.0	1577.1	1578.6
20°	1537.6	1523.0	1547.8	1542.0	1547.8
22.5°	1496.6	1484.9	1509.8	1505.4	1511.3
25°	1452.7	1441.0	1468.8	1467.4	1471.8
27.5°	1407.4	1397.1	1424.9	1427.9	1429.3
30°	1354.7	1347.4	1376.7	1381.1	1385.4
32.5°	1299.1	1294.7	1325.5	1332.8	1337.2
35°	1245.0	1240.6	1275.7	1281.6	1287.4
37.5°	1187.9	1185.0	1221.6	1227.4	1236.2
40°	1126.5	1128.0	1161.6	1171.8	1182.1
42.5°	1066.5	1069.4	1100.2	1114.8	1125.0
45°	1005.1	1009.5	1041.6	1056.3	1068.0
47.5°	945.1	949.5	981.7	997.8	1009.5
50°	879.3	889.5	921.7	936.3	949.5
52.5°	817.8	828.0	857.3	876.3	888.0
55°	756.4	766.6	794.4	814.9	825.1
57.5°	693.5	708.1	733.0	753.4	763.7
60°	634.9	643.7	671.5	692.0	700.8
62.5°	572.0	580.8	607.1	632.0	637.9
65°	510.6	517.9	545.7	567.6	577.9
67.5°	447.7	456.5	484.2	507.7	517.9
70°	384.8	393.5	424.3	450.6	459.4
72.5°	320.4	330.6	361.4	392.1	402.3
75°	260.4	272.1	304.3	335.0	343.8
77.5°	201.9	216.5	251.6	283.8	295.5
80°	147.8	165.3	203.4	238.5	248.7
82.5°	100.9	120.0	159.5	196.0	209.2
85°	60.0	79.0	121.4	156.5	168.2
87.5°	26.3	46.8	87.8	121.4	131.7
90°	1.5	24.9	60.0	90.7	102.4
92.5°	0.0	10.2	38.0	64.4	76.1
95°	0.0	1.5	21.9	43.9	52.7
97.5°	0.0	0.0	10.2	26.3	33.6
100°	0.0	0.0	1.5	13.2	19.0
102.5°	1.5	0.0	0.0	2.9	7.3
105°	1.5	0.0	0.0	0.0	1.5
107.5°	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P257022

CATALOG NUMBER: HGL-S-FR-60L940-UNV-4

**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)