

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: P257024

Luminaire Tested: **HGL-S-FR-30L930-UNV-8**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P257024  
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-30L930-UNV-8  
Description: HUGO 8 FOOT LINEAR LED LUMINAIRE WITH FROSTED LENS  
Light Source: (336) 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4666.0 lumens  
Efficiency: N/A  
Efficacy: 104.6 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.33  
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 8' x H: 0.01')  
CIE Type: Direct

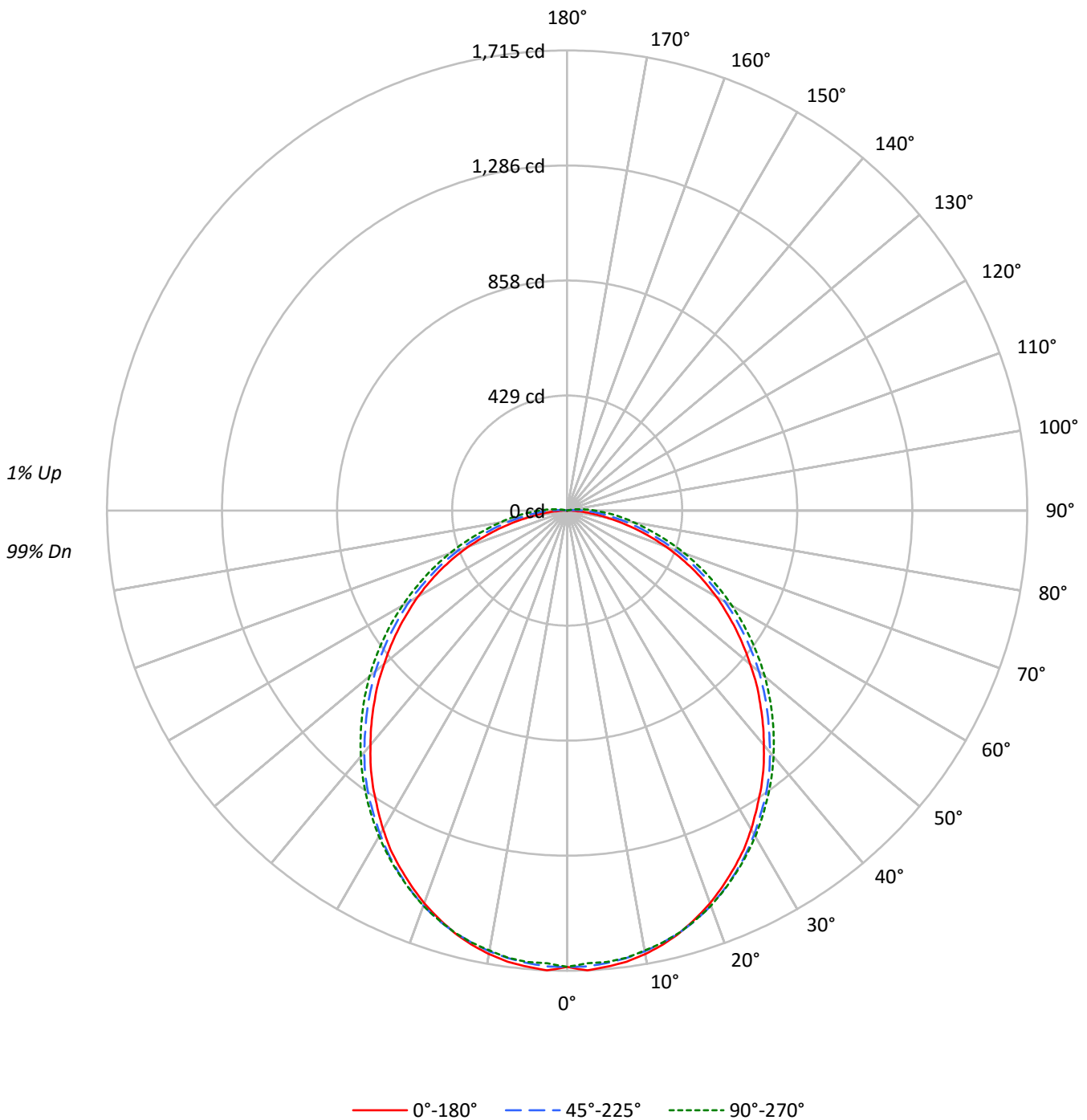
Input Watts (W): 44.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	9984	9984	9984
5°	10056	9951	9914
10°	10003	9888	9850
15°	9892	9802	9772
20°	9722	9680	9639
25°	9523	9494	9461
30°	9292	9280	9276
35°	9027	9057	9066
40°	8733	8780	8849
45°	8439	8488	8603
50°	8119	8213	8346
55°	7825	7876	8050
60°	7533	7568	7746
65°	7163	7186	7433
70°	6665	6783	7129
75°	5954	6249	6791
80°	5023	5900	6825
85°	4031	6075	7654



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	160.7	3.4
10°-20°	457.2	9.8
20°-30°	680.9	14.6
30°-40°	801.4	17.2
40°-50°	809.5	17.3
50°-60°	717.3	15.4
60°-70°	545.8	11.7
70°-80°	327.7	7.0
80°-90°	134.7	2.9
90°-100°	29.3	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°	1298.9	27.8
0°-40°	2100.3	45.0
0°-60°	3627.1	77.7
0°-90°	4635.2	99.3
90°-120°	30.7	0.7
90°-150°	30.7	0.7
90°-180°	31.0	0.7
0°-180°	4666.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1700	1700	1700	1700	1700	
5°	1706	1687	1693	1690	1689	162
15°	1628	1612	1626	1625	1626	459
25°	1471	1459	1487	1486	1490	677
35°	1260	1256	1292	1298	1304	788
45°	1018	1022	1055	1070	1081	785
55°	766	776	804	825	835	685
65°	517	524	552	575	585	511
75°	264	276	308	339	348	280
85°	61	80	123	158	170	68
90°	2	25	61	92	104	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



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1700.5	1700.5	1700.5	1700.5	1700.5
2.5°	1715.3	1696.0	1700.5	1697.5	1688.6
5°	1706.4	1687.1	1693.1	1690.1	1688.6
7.5°	1696.0	1676.8	1682.7	1679.7	1681.2
10°	1678.3	1659.0	1667.9	1664.9	1664.9
12.5°	1656.0	1639.7	1648.6	1645.7	1648.6
15°	1627.9	1611.6	1626.4	1624.9	1626.4
17.5°	1593.8	1579.0	1599.8	1596.8	1598.3
20°	1556.8	1542.0	1567.2	1561.2	1567.2
22.5°	1515.3	1503.5	1528.7	1524.2	1530.1
25°	1470.9	1459.0	1487.2	1485.7	1490.1
27.5°	1425.0	1414.6	1442.7	1445.7	1447.2
30°	1371.6	1364.2	1393.9	1398.3	1402.7
32.5°	1315.4	1310.9	1342.0	1349.4	1353.9
35°	1260.5	1256.1	1291.7	1297.6	1303.5
37.5°	1202.8	1199.8	1236.8	1242.8	1251.7
40°	1140.6	1142.0	1176.1	1186.5	1196.9
42.5°	1079.8	1082.8	1113.9	1128.7	1139.1
45°	1017.6	1022.1	1054.7	1069.5	1081.3
47.5°	956.9	961.3	993.9	1010.2	1022.1
50°	890.2	900.6	933.2	948.0	961.3
52.5°	828.0	838.4	868.0	887.3	899.1
55°	765.8	776.2	804.3	825.1	835.4
57.5°	702.1	716.9	742.1	762.8	773.2
60°	642.9	651.8	679.9	700.6	709.5
62.5°	579.2	588.1	614.7	639.9	645.8
65°	517.0	524.4	552.5	574.7	585.1
67.5°	453.3	462.2	490.3	514.0	524.4
70°	389.6	398.5	429.6	456.2	465.1
72.5°	324.4	334.8	365.9	397.0	407.3
75°	263.7	275.5	308.1	339.2	348.1
77.5°	204.4	219.2	254.8	287.4	299.2
80°	149.6	167.4	205.9	241.4	251.8
82.5°	102.2	121.5	161.5	198.5	211.8
85°	60.7	80.0	122.9	158.5	170.3
87.5°	26.7	47.4	88.9	122.9	133.3
90°	1.5	25.2	60.7	91.8	103.7
92.5°	0.0	10.4	38.5	65.2	77.0
95°	0.0	1.5	22.2	44.4	53.3
97.5°	0.0	0.0	10.4	26.7	34.1
100°	0.0	0.0	1.5	13.3	19.3
102.5°	1.5	0.0	0.0	3.0	7.4
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



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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)