

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: P257014

Luminaire Tested: **HGL-S-FR-50L930-UNV-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257014
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-50L930-UNV-4
Description: HUGO 4 FOOT LINEAR LED LUMINAIRE WITH FROSTED LENS
Light Source: (168) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3687.5 lumens
Efficiency: N/A
Efficacy: 95.8 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

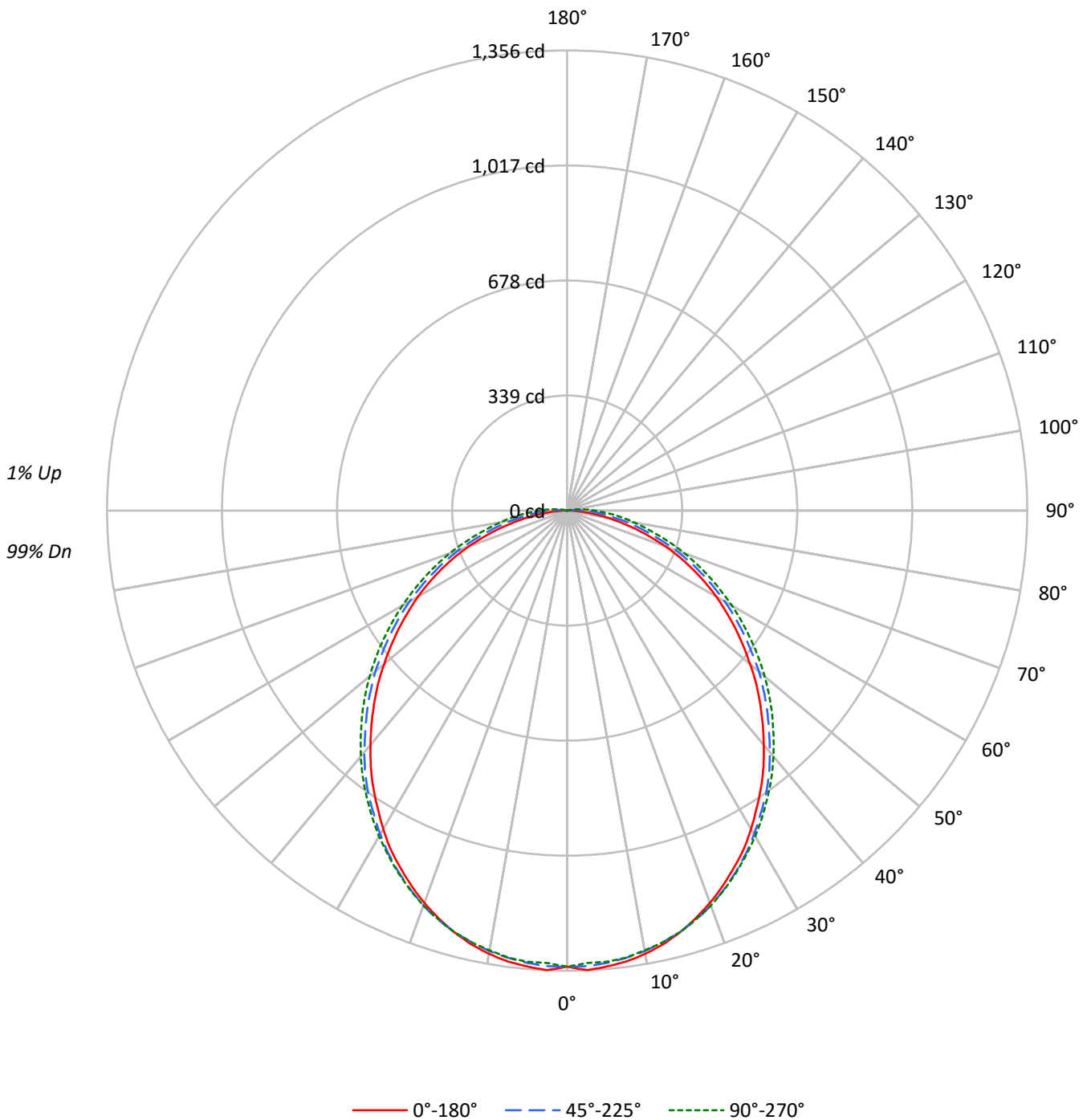
Input Watts (W): 38.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	15781	15781	15781
5°	15893	15727	15670
10°	15807	15627	15569
15°	15629	15490	15444
20°	15360	15295	15234
25°	15043	14999	14953
30°	14677	14660	14662
35°	14255	14306	14330
40°	13788	13868	13987
45°	13321	13404	13598
50°	12813	12968	13192
55°	12346	12433	12723
60°	11881	11944	12243
65°	11290	11338	11748
70°	10499	10697	11270
75°	9368	9848	10733
80°	7881	9284	10787
85°	6287	9539	12100



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.0	3.4
10°-20°	361.4	9.8
20°-30°	538.1	14.6
30°-40°	633.4	17.2
40°-50°	639.7	17.3
50°-60°	566.9	15.4
60°-70°	431.3	11.7
70°-80°	259.0	7.0
80°-90°	106.4	2.9
90°-100°	23.2	0.6
100°-110°	1.1	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°	1026.5	27.8
0°-40°	1659.9	45.0
0°-60°	2866.5	77.7
0°-90°	3663.2	99.3
90°-120°	24.3	0.7
90°-150°	24.3	0.7
90°-180°	24.0	0.7
0°-180°	3687.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1344	1344	1344	1344	1344	
5°	1349	1333	1338	1336	1334	128
15°	1286	1274	1285	1284	1285	362
25°	1162	1153	1175	1174	1178	535
35°	996	993	1021	1026	1030	623
45°	804	808	834	845	855	621
55°	605	613	636	652	660	541
65°	408	414	437	454	462	404
75°	208	218	244	268	275	221
85°	48	63	97	125	135	54
90°	1	20	48	73	82	3
95°	0	1	18	35	42	0
105°	1	0	0	0	1	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°	1343.9	1343.9	1343.9	1343.9	1343.9
2.5°	1355.6	1340.4	1343.9	1341.5	1334.5
5°	1348.6	1333.3	1338.0	1335.7	1334.5
7.5°	1340.4	1325.1	1329.8	1327.5	1328.7
10°	1326.3	1311.1	1318.1	1315.8	1315.8
12.5°	1308.8	1295.9	1302.9	1300.6	1302.9
15°	1286.5	1273.6	1285.3	1284.2	1285.3
17.5°	1259.6	1247.9	1264.3	1261.9	1263.1
20°	1230.3	1218.6	1238.5	1233.8	1238.5
22.5°	1197.5	1188.2	1208.1	1204.6	1209.3
25°	1162.4	1153.1	1175.3	1174.1	1177.6
27.5°	1126.1	1117.9	1140.2	1142.5	1143.7
30°	1084.0	1078.1	1101.6	1105.1	1108.6
32.5°	1039.5	1036.0	1060.6	1066.4	1070.0
35°	996.2	992.7	1020.8	1025.5	1030.2
37.5°	950.5	948.2	977.5	982.2	989.2
40°	901.4	902.6	929.5	937.7	945.9
42.5°	853.4	855.7	880.3	892.0	900.2
45°	804.2	807.7	833.5	845.2	854.6
47.5°	756.2	759.7	785.5	798.4	807.7
50°	703.5	711.7	737.5	749.2	759.7
52.5°	654.4	662.6	686.0	701.2	710.6
55°	605.2	613.4	635.6	652.0	660.2
57.5°	554.9	566.6	586.5	602.9	611.1
60°	508.1	515.1	537.3	553.7	560.7
62.5°	457.7	464.7	485.8	505.7	510.4
65°	408.5	414.4	436.6	454.2	462.4
67.5°	358.2	365.2	387.5	406.2	414.4
70°	307.9	314.9	339.5	360.6	367.6
72.5°	256.4	264.6	289.1	313.7	321.9
75°	208.4	217.7	243.5	268.1	275.1
77.5°	161.5	173.3	201.3	227.1	236.5
80°	118.2	132.3	162.7	190.8	199.0
82.5°	80.8	96.0	127.6	156.9	167.4
85°	48.0	63.2	97.2	125.3	134.6
87.5°	21.1	37.5	70.2	97.2	105.4
90°	1.2	19.9	48.0	72.6	81.9
92.5°	0.0	8.2	30.4	51.5	60.9
95°	0.0	1.2	17.6	35.1	42.1
97.5°	0.0	0.0	8.2	21.1	26.9
100°	0.0	0.0	1.2	10.5	15.2
102.5°	1.2	0.0	0.0	2.3	5.9
105°	1.2	0.0	0.0	0.0	1.2
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)