

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: P257013

Luminaire Tested: **HGL-S-FR-40L930-UNV-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257013
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-40L930-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: 2946.6 lumens
Efficiency: N/A
Efficacy: 99.5 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

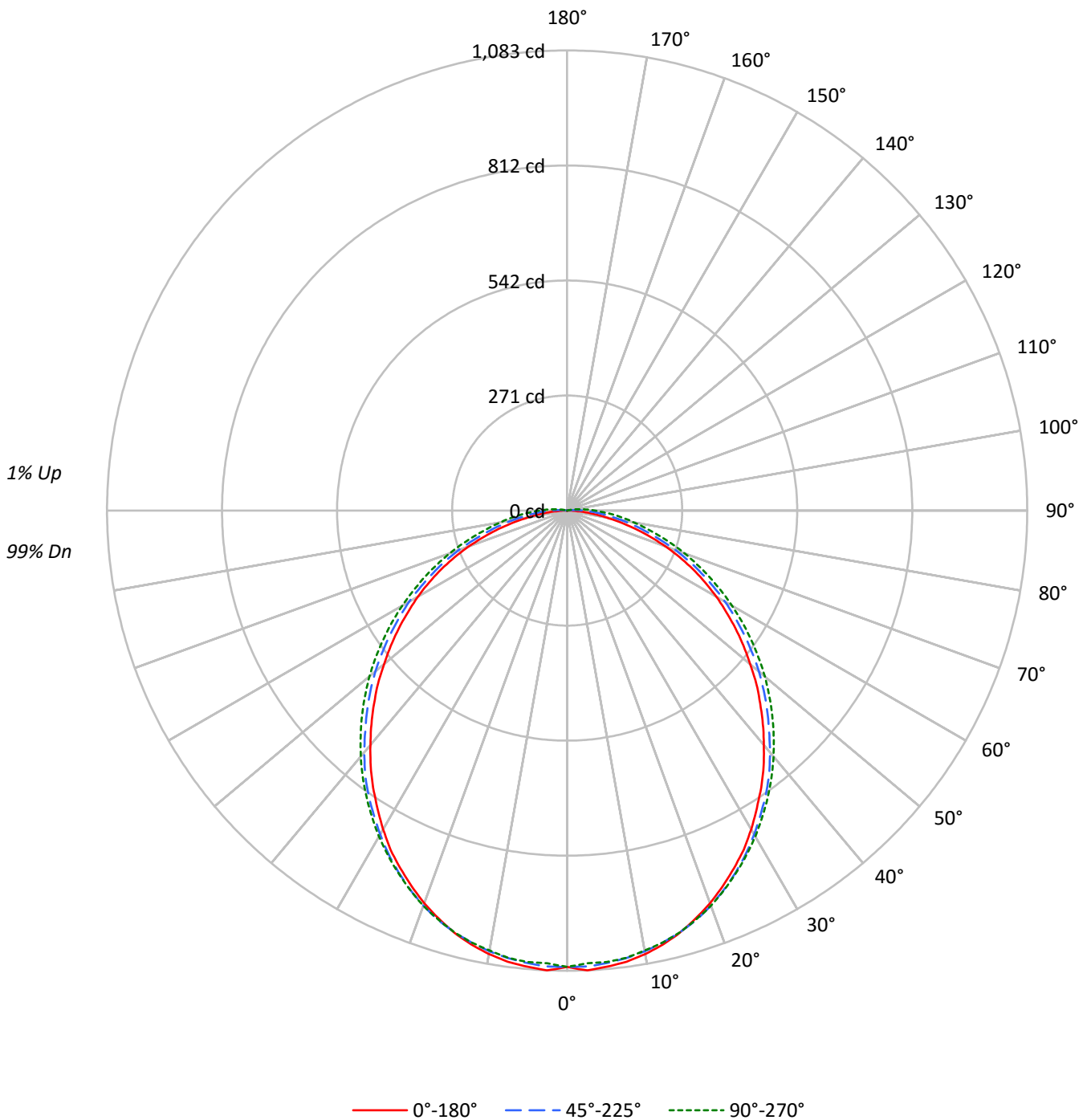
Input Watts (W): 29.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	12610	12610	12610
5°	12699	12567	12522
10°	12631	12487	12441
15°	12489	12378	12342
20°	12274	12222	12174
25°	12021	11986	11949
30°	11728	11714	11715
35°	11391	11432	11451
40°	11018	11081	11176
45°	10645	10710	10866
50°	10240	10362	10542
55°	9865	9935	10168
60°	9494	9545	9784
65°	9023	9060	9388
70°	8388	8548	9004
75°	7484	7871	8576
80°	6301	7418	8619
85°	5030	7615	9673



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.5	3.4
10°-20°	288.8	9.8
20°-30°	430.0	14.6
30°-40°	506.1	17.2
40°-50°	511.2	17.3
50°-60°	453.0	15.4
60°-70°	344.7	11.7
70°-80°	206.9	7.0
80°-90°	85.0	2.9
90°-100°	18.5	0.6
100°-110°	0.9	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°	820.3	27.8
0°-40°	1326.4	45.0
0°-60°	2290.5	77.7
0°-90°	2927.2	99.3
90°-120°	19.4	0.7
90°-150°	19.4	0.7
90°-180°	19.0	0.6
0°-180°	2946.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1074	1074	1074	1074	1074	
5°	1078	1065	1069	1067	1066	102
15°	1028	1018	1027	1026	1027	290
25°	929	921	939	938	941	428
35°	796	793	816	819	823	498
45°	643	645	666	675	683	496
55°	484	490	508	521	528	432
65°	326	331	349	363	370	323
75°	166	174	195	214	220	177
85°	38	50	78	100	108	43
90°	1	16	38	58	66	3
95°	0	1	14	28	34	0
105°	1	0	0	0	1	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°	1073.9	1073.9	1073.9	1073.9	1073.9
2.5°	1083.2	1071.1	1073.9	1072.0	1066.4
5°	1077.6	1065.4	1069.2	1067.3	1066.4
7.5°	1071.1	1058.9	1062.6	1060.8	1061.7
10°	1059.8	1047.7	1053.3	1051.4	1051.4
12.5°	1045.8	1035.5	1041.1	1039.3	1041.1
15°	1028.0	1017.7	1027.1	1026.2	1027.1
17.5°	1006.5	997.2	1010.3	1008.4	1009.3
20°	983.1	973.8	989.7	985.9	989.7
22.5°	956.9	949.5	965.4	962.6	966.3
25°	928.9	921.4	939.2	938.2	941.0
27.5°	899.9	893.3	911.1	913.0	913.9
30°	866.2	861.5	880.2	883.0	885.8
32.5°	830.7	827.9	847.5	852.2	855.0
35°	796.0	793.2	815.7	819.4	823.2
37.5°	759.6	757.7	781.1	784.8	790.4
40°	720.3	721.2	742.7	749.3	755.8
42.5°	681.9	683.8	703.4	712.8	719.3
45°	642.6	645.4	666.0	675.4	682.9
47.5°	604.3	607.1	627.7	638.0	645.4
50°	562.2	568.7	589.3	598.7	607.1
52.5°	522.9	529.5	548.2	560.3	567.8
55°	483.6	490.2	507.9	521.0	527.6
57.5°	443.4	452.7	468.6	481.7	488.3
60°	406.0	411.6	429.4	442.5	448.1
62.5°	365.8	371.4	388.2	404.1	407.8
65°	326.5	331.1	348.9	362.9	369.5
67.5°	286.2	291.9	309.6	324.6	331.1
70°	246.0	251.6	271.3	288.1	293.7
72.5°	204.9	211.4	231.0	250.7	257.2
75°	166.5	174.0	194.6	214.2	219.8
77.5°	129.1	138.4	160.9	181.5	189.0
80°	94.5	105.7	130.0	152.5	159.0
82.5°	64.5	76.7	102.0	125.3	133.8
85°	38.4	50.5	77.6	100.1	107.6
87.5°	16.8	29.9	56.1	77.6	84.2
90°	0.9	15.9	38.4	58.0	65.5
92.5°	0.0	6.5	24.3	41.2	48.6
95°	0.0	0.9	14.0	28.1	33.7
97.5°	0.0	0.0	6.5	16.8	21.5
100°	0.0	0.0	0.9	8.4	12.2
102.5°	0.9	0.0	0.0	1.9	4.7
105°	0.9	0.0	0.0	0.0	0.9
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)