

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: G2-1708-204-1

Luminaire Tested: **HGL-S-FR-30L835-UNV-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: 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-30L835-UNV-4
Description: HUGO 4 FOOT LINEAR LED LUMINAIRE WITH FROSTED LENS
Light Source: (168) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3150.0 lumens
Efficiency: N/A
Efficacy: 135.8 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

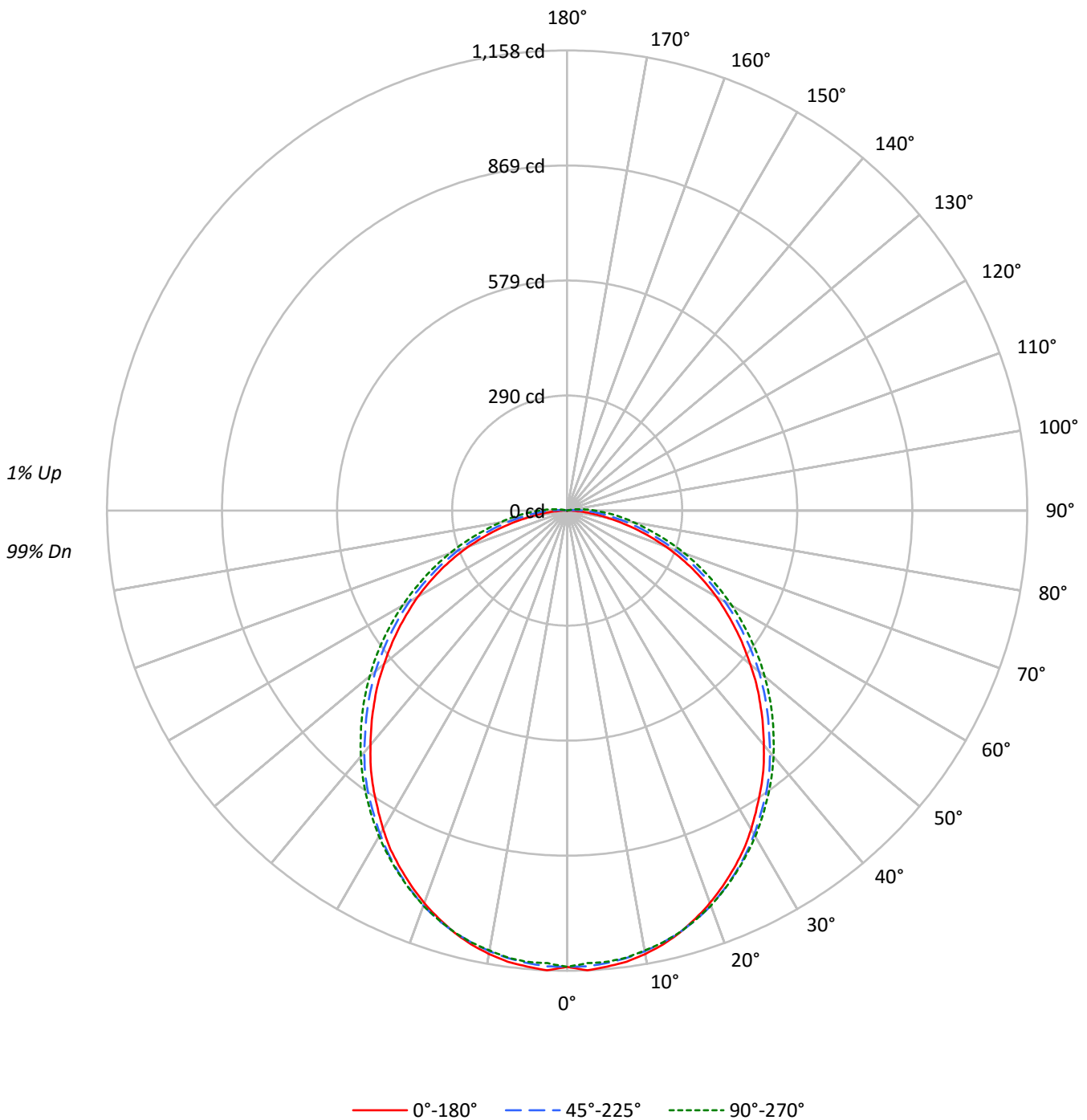
Input Watts (W): 23.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	13480	13480	13480
5°	13576	13435	13386
10°	13503	13349	13300
15°	13351	13232	13194
20°	13121	13066	13014
25°	12851	12813	12774
30°	12538	12523	12525
35°	12178	12221	12241
40°	11778	11847	11948
45°	11380	11450	11616
50°	10946	11078	11270
55°	10547	10622	10869
60°	10148	10203	10459
65°	9645	9686	10036
70°	8968	9137	9626
75°	8001	8413	9169
80°	6734	7932	9215
85°	5370	8145	10338



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.5	3.4
10°-20°	308.7	9.8
20°-30°	459.7	14.6
30°-40°	541.0	17.2
40°-50°	546.5	17.3
50°-60°	484.3	15.4
60°-70°	368.5	11.7
70°-80°	221.2	7.0
80°-90°	90.9	2.9
90°-100°	19.8	0.6
100°-110°	1.0	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°	876.9	27.8
0°-40°	1417.9	45.0
0°-60°	2448.7	77.7
0°-90°	3129.3	99.3
90°-120°	20.7	0.7
90°-150°	20.7	0.7
90°-180°	21.0	0.7
0°-180°	3150.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1148	1148	1148	1148	1148	
5°	1152	1139	1143	1141	1140	109
15°	1099	1088	1098	1097	1098	310
25°	993	985	1004	1003	1006	457
35°	851	848	872	876	880	532
45°	687	690	712	722	730	530
55°	517	524	543	557	564	462
65°	349	354	373	388	395	345
75°	178	186	208	229	235	189
85°	41	54	83	107	115	46
90°	1	17	41	62	70	3
95°	0	1	15	30	36	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°	1148	1148	1148	1148	1148
2.5°	1158	1145	1148	1146	1140
5°	1152	1139	1143	1141	1140
7.5°	1145	1132	1136	1134	1135
10°	1133	1120	1126	1124	1124
12.5°	1118	1107	1113	1111	1113
15°	1099	1088	1098	1097	1098
17.5°	1076	1066	1080	1078	1079
20°	1051	1041	1058	1054	1058
22.5°	1023	1015	1032	1029	1033
25°	993	985	1004	1003	1006
27.5°	962	955	974	976	977
30°	926	921	941	944	947
32.5°	888	885	906	911	914
35°	851	848	872	876	880
37.5°	812	810	835	839	845
40°	770	771	794	801	808
42.5°	729	731	752	762	769
45°	687	690	712	722	730
47.5°	646	649	671	682	690
50°	601	608	630	640	649
52.5°	559	566	586	599	607
55°	517	524	543	557	564
57.5°	474	484	501	515	522
60°	434	440	459	473	479
62.5°	391	397	415	432	436
65°	349	354	373	388	395
67.5°	306	312	331	347	354
70°	263	269	290	308	314
72.5°	219	226	247	268	275
75°	178	186	208	229	235
77.5°	138	148	172	194	202
80°	101	113	139	163	170
82.5°	69	82	109	134	143
85°	41	54	83	107	115
87.5°	18	32	60	83	90
90°	1	17	41	62	70
92.5°	0	7	26	44	52
95°	0	1	15	30	36
97.5°	0	0	7	18	23
100°	0	0	1	9	13
102.5°	1	0	0	2	5
105°	1	0	0	0	1
107.5°	0	0	0	0	0
110°	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
115°	0	0	0	0	0
117.5°	0	0	0	0	0
120°	0	0	0	0	0
122.5°	0	0	0	0	0
125°	0	0	0	0	0
127.5°	0	0	0	0	0
130°	0	0	0	0	0
132.5°	0	0	0	0	0
135°	0	0	0	0	0
137.5°	0	0	0	0	0
140°	0	0	0	0	0
142.5°	0	0	0	0	0
145°	0	0	0	0	0
147.5°	0	0	0	0	0
150°	0	0	0	0	0
152.5°	0	0	0	0	0
155°	0	0	0	0	0
157.5°	0	0	0	0	0
160°	0	0	0	0	0
162.5°	0	0	0	0	0
165°	0	0	0	0	0
167.5°	0	0	0	0	0
170°	0	0	0	0	0
172.5°	0	0	0	0	0
175°	0	0	0	0	0
177.5°	0	0	0	0	0
180°	0	0	0	0	0

(END OF REPORT)