

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: P257012

Luminaire Tested: **HGL-S-FR-30L930-UNV-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257012
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-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: 2333.0 lumens
Efficiency: N/A
Efficacy: 100.6 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

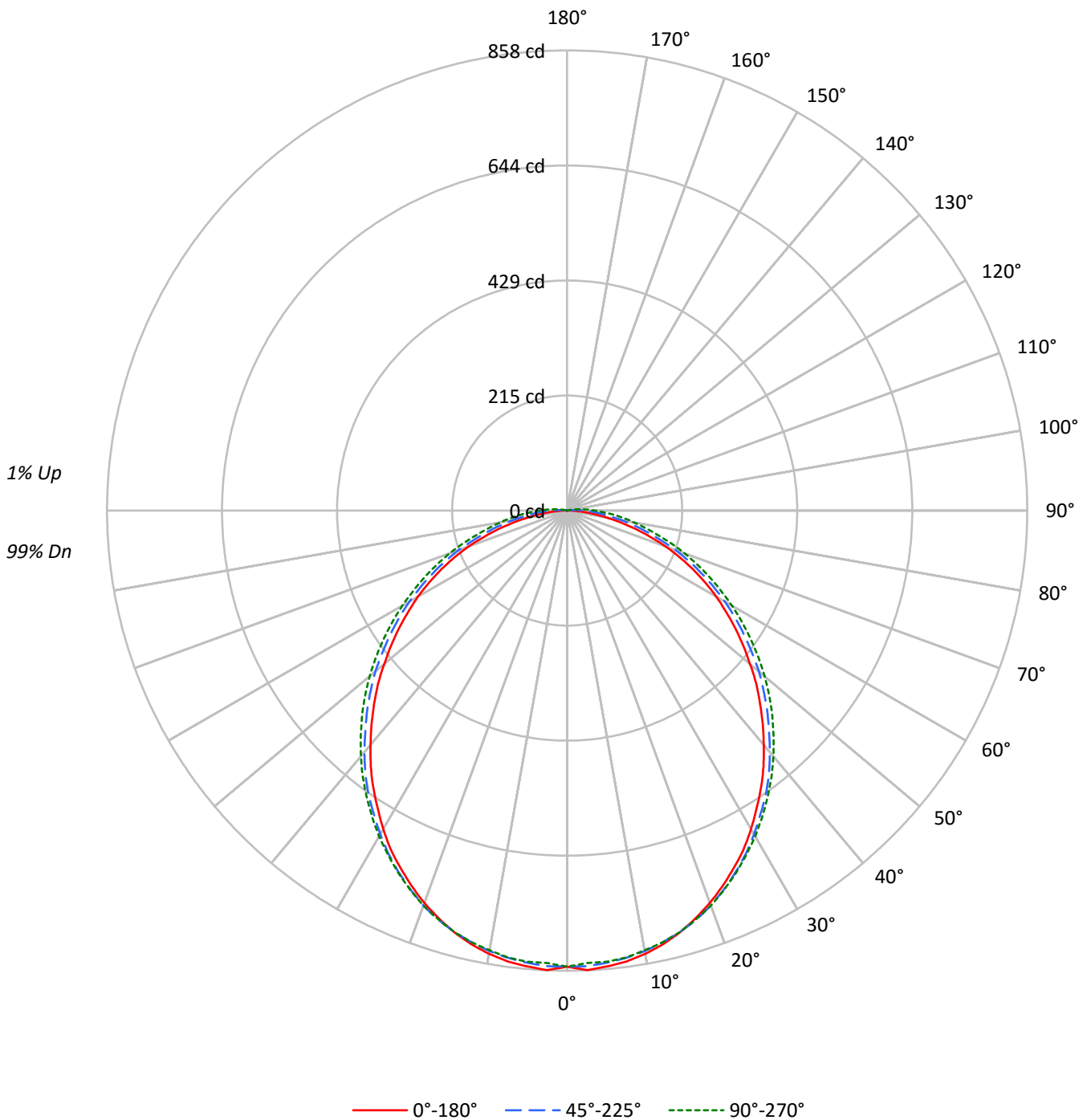
Input Watts (W): 23.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	9983	9983	9983
5°	10055	9950	9914
10°	10001	9886	9851
15°	9888	9800	9772
20°	9718	9677	9639
25°	9517	9490	9461
30°	9285	9275	9277
35°	9019	9051	9066
40°	8724	8775	8849
45°	8428	8480	8604
50°	8107	8205	8347
55°	7811	7867	8050
60°	7515	7556	7747
65°	7144	7175	7432
70°	6642	6768	7131
75°	5924	6233	6789
80°	4987	5872	6825
85°	3982	6035	7659



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.4	3.4
10°-20°	228.6	9.8
20°-30°	340.5	14.6
30°-40°	400.7	17.2
40°-50°	404.7	17.3
50°-60°	358.7	15.4
60°-70°	272.9	11.7
70°-80°	163.8	7.0
80°-90°	67.3	2.9
90°-100°	14.7	0.6
100°-110°	0.7	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°	649.4	27.8
0°-40°	1050.2	45.0
0°-60°	1813.6	77.7
0°-90°	2317.6	99.3
90°-120°	15.4	0.7
90°-150°	15.4	0.7
90°-180°	15.0	0.6
0°-180°	2333.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	850	850	850	850	850	
5°	853	844	846	845	844	81
15°	814	806	813	812	813	229
25°	735	730	744	743	745	339
35°	630	628	646	649	652	394
45°	509	511	527	535	541	393
55°	383	388	402	412	418	342
65°	258	262	276	287	292	255
75°	132	138	154	170	174	140
85°	30	40	62	79	85	34
90°	1	13	30	46	52	2
95°	0	1	11	22	27	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°	850.2	850.2	850.2	850.2	850.2
2.5°	857.6	848.0	850.2	848.8	844.3
5°	853.2	843.6	846.5	845.1	844.3
7.5°	848.0	838.4	841.4	839.9	840.6
10°	839.1	829.5	833.9	832.5	832.5
12.5°	828.0	819.9	824.3	822.8	824.3
15°	813.9	805.8	813.2	812.5	813.2
17.5°	796.9	789.5	799.9	798.4	799.1
20°	778.4	771.0	783.6	780.6	783.6
22.5°	757.7	751.7	764.3	762.1	765.1
25°	735.4	729.5	743.6	742.8	745.1
27.5°	712.5	707.3	721.4	722.9	723.6
30°	685.8	682.1	696.9	699.2	701.4
32.5°	657.7	655.5	671.0	674.7	676.9
35°	630.3	628.1	645.8	648.8	651.8
37.5°	601.4	599.9	618.4	621.4	625.8
40°	570.3	571.0	588.1	593.2	598.4
42.5°	539.9	541.4	557.0	564.4	569.5
45°	508.8	511.0	527.3	534.7	540.7
47.5°	478.4	480.7	497.0	505.1	511.0
50°	445.1	450.3	466.6	474.0	480.7
52.5°	414.0	419.2	434.0	443.6	449.6
55°	382.9	388.1	402.2	412.5	417.7
57.5°	351.1	358.5	371.1	381.4	386.6
60°	321.4	325.9	339.9	350.3	354.8
62.5°	289.6	294.0	307.4	320.0	322.9
65°	258.5	262.2	276.3	287.4	292.5
67.5°	226.6	231.1	245.1	257.0	262.2
70°	194.8	199.2	214.8	228.1	232.6
72.5°	162.2	167.4	182.9	198.5	203.7
75°	131.8	137.8	154.1	169.6	174.0
77.5°	102.2	109.6	127.4	143.7	149.6
80°	74.8	83.7	102.9	120.7	125.9
82.5°	51.1	60.7	80.7	99.2	105.9
85°	30.4	40.0	61.5	79.2	85.2
87.5°	13.3	23.7	44.4	61.5	66.7
90°	0.7	12.6	30.4	45.9	51.8
92.5°	0.0	5.2	19.3	32.6	38.5
95°	0.0	0.7	11.1	22.2	26.7
97.5°	0.0	0.0	5.2	13.3	17.0
100°	0.0	0.0	0.7	6.7	9.6
102.5°	0.7	0.0	0.0	1.5	3.7
105°	0.7	0.0	0.0	0.0	0.7
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)