

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: P257018

Luminaire Tested: **HGL-S-FR-30L940-UNV-4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P257018  
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-30L940-UNV-4  
Description: HUGO 4 FOOT LINEAR LED LUMINAIRE WITH FROSTED LENS  
Light Source: (168) 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2413.0 lumens  
Efficiency: N/A  
Efficacy: 104.0 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

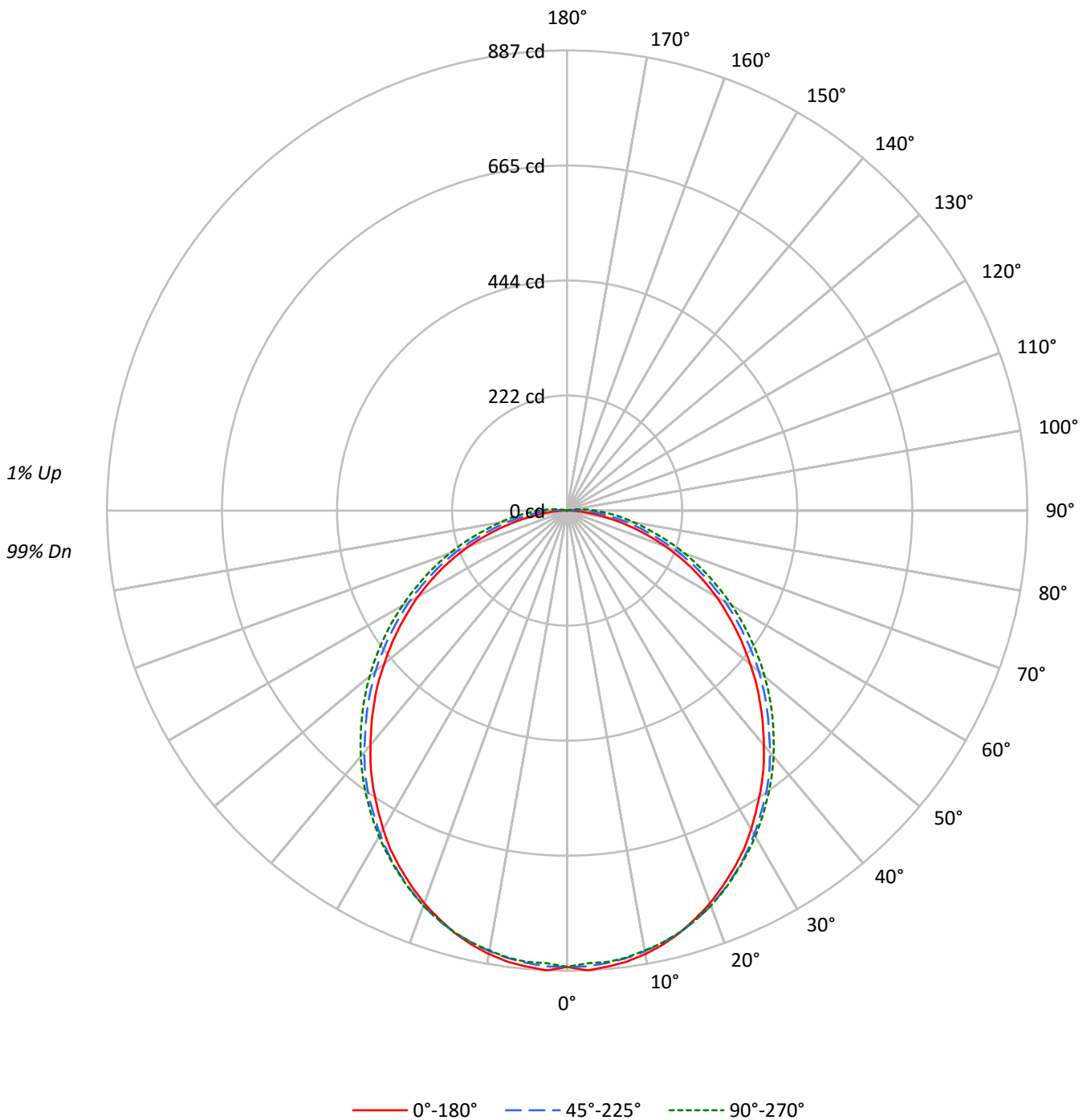
Input Watts (W): 23.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	10326	10326	10326
5°	10400	10292	10255
10°	10344	10225	10188
15°	10228	10136	10107
20°	10051	10008	9968
25°	9844	9815	9785
30°	9604	9593	9594
35°	9329	9362	9377
40°	9022	9074	9152
45°	8718	8771	8898
50°	8386	8486	8632
55°	8078	8135	8325
60°	7775	7816	8011
65°	7387	7419	7688
70°	6871	6998	7373
75°	6131	6443	7023
80°	5161	6077	7058
85°	4113	6241	7920



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.1	3.4
10°-20°	236.5	9.8
20°-30°	352.1	14.6
30°-40°	414.4	17.2
40°-50°	418.6	17.3
50°-60°	371.0	15.4
60°-70°	282.3	11.7
70°-80°	169.5	7.0
80°-90°	69.6	2.9
90°-100°	15.2	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°	671.7	27.8
0°-40°	1086.2	45.0
0°-60°	1875.7	77.7
0°-90°	2397.1	99.3
90°-120°	15.9	0.7
90°-150°	15.9	0.7
90°-180°	16.0	0.7
0°-180°	2413.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	879	879	879	879	879	
5°	882	872	876	874	873	84
15°	842	833	841	840	841	237
25°	761	754	769	768	771	350
35°	652	650	668	671	674	407
45°	526	529	545	553	559	406
55°	396	401	416	427	432	354
65°	267	271	286	297	303	264
75°	136	142	159	175	180	145
85°	31	41	64	82	88	35
90°	1	13	31	48	54	2
95°	0	1	12	23	28	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°	879.4	879.4	879.4	879.4	879.4
2.5°	887.1	877.1	879.4	877.9	873.3
5°	882.5	872.5	875.6	874.0	873.3
7.5°	877.1	867.1	870.2	868.7	869.4
10°	867.9	857.9	862.5	861.0	861.0
12.5°	856.4	848.0	852.6	851.0	852.6
15°	841.9	833.4	841.1	840.3	841.1
17.5°	824.2	816.6	827.3	825.8	826.5
20°	805.1	797.4	810.4	807.4	810.4
22.5°	783.6	777.5	790.5	788.2	791.3
25°	760.7	754.5	769.1	768.3	770.6
27.5°	736.9	731.5	746.1	747.6	748.4
30°	709.3	705.5	720.8	723.1	725.4
32.5°	680.2	677.9	694.0	697.8	700.1
35°	651.9	649.6	668.0	671.0	674.1
37.5°	622.0	620.5	639.6	642.7	647.3
40°	589.8	590.6	608.2	613.6	618.9
42.5°	558.4	560.0	576.0	583.7	589.1
45°	526.3	528.6	545.4	553.1	559.2
47.5°	494.8	497.1	514.0	522.4	528.6
50°	460.4	465.7	482.6	490.3	497.1
52.5°	428.2	433.6	448.9	458.8	465.0
55°	396.0	401.4	415.9	426.7	432.0
57.5°	363.1	370.8	383.8	394.5	399.9
60°	332.5	337.0	351.6	362.3	366.9
62.5°	299.5	304.1	317.9	330.9	334.0
65°	267.3	271.2	285.7	297.2	302.6
67.5°	234.4	239.0	253.6	265.8	271.2
70°	201.5	206.1	222.1	235.9	240.5
72.5°	167.8	173.1	189.2	205.3	210.7
75°	136.4	142.5	159.3	175.4	180.0
77.5°	105.7	113.4	131.8	148.6	154.7
80°	77.4	86.6	106.5	124.9	130.2
82.5°	52.9	62.8	83.5	102.6	109.5
85°	31.4	41.4	63.6	82.0	88.1
87.5°	13.8	24.5	46.0	63.6	68.9
90°	0.8	13.0	31.4	47.5	53.6
92.5°	0.0	5.4	19.9	33.7	39.8
95°	0.0	0.8	11.5	23.0	27.6
97.5°	0.0	0.0	5.4	13.8	17.6
100°	0.0	0.0	0.8	6.9	10.0
102.5°	0.8	0.0	0.0	1.5	3.8
105°	0.8	0.0	0.0	0.0	0.8
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)