

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: P257039

Luminaire Tested: **HGL-S-FR-30L940-UNV-12**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257039
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-12
Description: HUGO 12 FOOT LINEAR LED LUMINAIRE WITH FROSTED LENS
Light Source: (504) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7238.9 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.33
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 12' x H: 0.01')
CIE Type: Direct

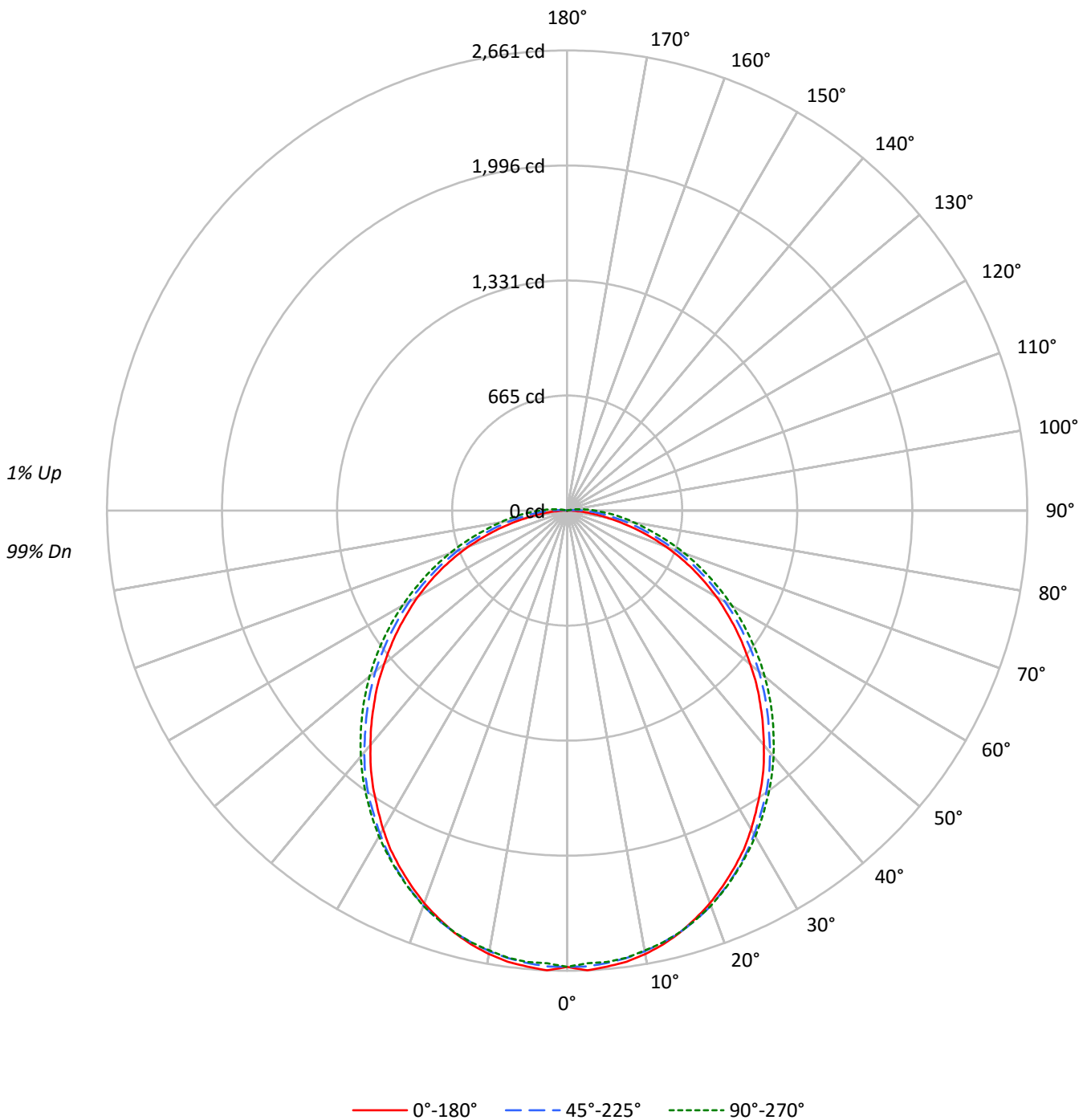
Input Watts (W): 65.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P257039

CATALOG NUMBER: HGL-S-FR-30L940-UNV-12

Luminous Intensity Polar Plot





TEST NUMBER: P257039

CATALOG NUMBER: HGL-S-FR-30L940-UNV-12

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°	10401	10292	10254
10°	10347	10228	10188
15°	10232	10140	10107
20°	10058	10013	9969
25°	9852	9821	9785
30°	9613	9600	9594
35°	9339	9369	9377
40°	9035	9084	9152
45°	8732	8781	8898
50°	8402	8498	8633
55°	8098	8149	8326
60°	7797	7831	8012
65°	7415	7438	7687
70°	6901	7020	7374
75°	6168	6470	7023
80°	5207	6110	7060
85°	4191	6300	7920



TEST NUMBER: P257039

CATALOG NUMBER: HGL-S-FR-30L940-UNV-12

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.3	3.4
10°-20°	709.4	9.8
20°-30°	1056.4	14.6
30°-40°	1243.3	17.2
40°-50°	1255.8	17.3
50°-60°	1112.9	15.4
60°-70°	846.8	11.7
70°-80°	508.4	7.0
80°-90°	208.9	2.9
90°-100°	45.5	0.6
100°-110°	2.2	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°	2015.1	27.8
0°-40°	3258.5	45.0
0°-60°	5627.2	77.7
0°-90°	7191.2	99.3
90°-120°	47.7	0.7
90°-150°	47.7	0.7
90°-180°	48.0	0.7
0°-180°	7238.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2638	2638	2638	2638	2638	
5°	2647	2618	2627	2622	2620	251
15°	2526	2500	2523	2521	2523	711
25°	2282	2264	2307	2305	2312	1051
35°	1956	1949	2004	2013	2022	1222
45°	1579	1586	1636	1659	1678	1218
55°	1188	1204	1248	1280	1296	1062
65°	802	814	857	892	908	793
75°	409	427	478	526	540	434
85°	94	124	191	246	264	106
90°	2	39	94	142	161	6
95°	0	2	34	69	83	0
105°	2	0	0	0	2	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



TEST NUMBER: P257039

CATALOG NUMBER: HGL-S-FR-30L940-UNV-12

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2638.2	2638.2	2638.2	2638.2	2638.2
2.5°	2661.2	2631.3	2638.2	2633.6	2619.8
5°	2647.4	2617.5	2626.7	2622.1	2619.8
7.5°	2631.3	2601.4	2610.6	2606.0	2608.3
10°	2603.7	2573.8	2587.6	2583.0	2583.0
12.5°	2569.2	2544.0	2557.7	2553.1	2557.7
15°	2525.6	2500.3	2523.3	2521.0	2523.3
17.5°	2472.7	2449.7	2481.9	2477.3	2479.6
20°	2415.3	2392.3	2431.3	2422.2	2431.3
22.5°	2350.9	2332.5	2371.6	2364.7	2373.9
25°	2282.0	2263.6	2307.3	2305.0	2311.8
27.5°	2210.7	2194.6	2238.3	2242.9	2245.2
30°	2128.0	2116.5	2162.5	2169.4	2176.3
32.5°	2040.7	2033.8	2082.0	2093.5	2100.4
35°	1955.6	1948.8	2003.9	2013.1	2022.3
37.5°	1866.0	1861.4	1918.9	1928.1	1941.9
40°	1769.5	1771.8	1824.7	1840.7	1856.8
42.5°	1675.3	1679.9	1728.1	1751.1	1767.2
45°	1578.8	1585.7	1636.2	1659.2	1677.6
47.5°	1484.5	1491.4	1542.0	1567.3	1585.7
50°	1381.1	1397.2	1447.8	1470.8	1491.4
52.5°	1284.6	1300.7	1346.7	1376.5	1394.9
55°	1188.1	1204.2	1247.8	1280.0	1296.1
57.5°	1089.3	1112.3	1151.3	1183.5	1199.6
60°	997.4	1011.1	1054.8	1087.0	1100.8
62.5°	898.5	912.3	953.7	992.8	1002.0
65°	802.0	813.5	857.2	891.6	907.7
67.5°	703.2	717.0	760.7	797.4	813.5
70°	604.4	618.2	666.4	707.8	721.6
72.5°	503.3	519.4	567.6	615.9	632.0
75°	409.1	427.4	478.0	526.3	540.0
77.5°	317.1	340.1	395.3	445.8	464.2
80°	232.1	259.7	319.4	374.6	390.7
82.5°	158.6	188.4	250.5	307.9	328.6
85°	94.2	124.1	190.7	245.9	264.3
87.5°	41.4	73.5	137.9	190.7	206.8
90°	2.3	39.1	94.2	142.5	160.9
92.5°	0.0	16.1	59.7	101.1	119.5
95°	0.0	2.3	34.5	68.9	82.7
97.5°	0.0	0.0	16.1	41.4	52.9
100°	0.0	0.0	2.3	20.7	29.9
102.5°	2.3	0.0	0.0	4.6	11.5
105°	2.3	0.0	0.0	0.0	2.3
107.5°	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P257039

CATALOG NUMBER: HGL-S-FR-30L940-UNV-12

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)