

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: P257025

Luminaire Tested: **HGL-S-FR-40L930-UNV-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257025
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-8
Description: HUGO 8 FOOT LINEAR LED LUMINAIRE WITH FROSTED LENS
Light Source: (336) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5893.2 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.33
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 8' x H: 0.01')
CIE Type: Direct

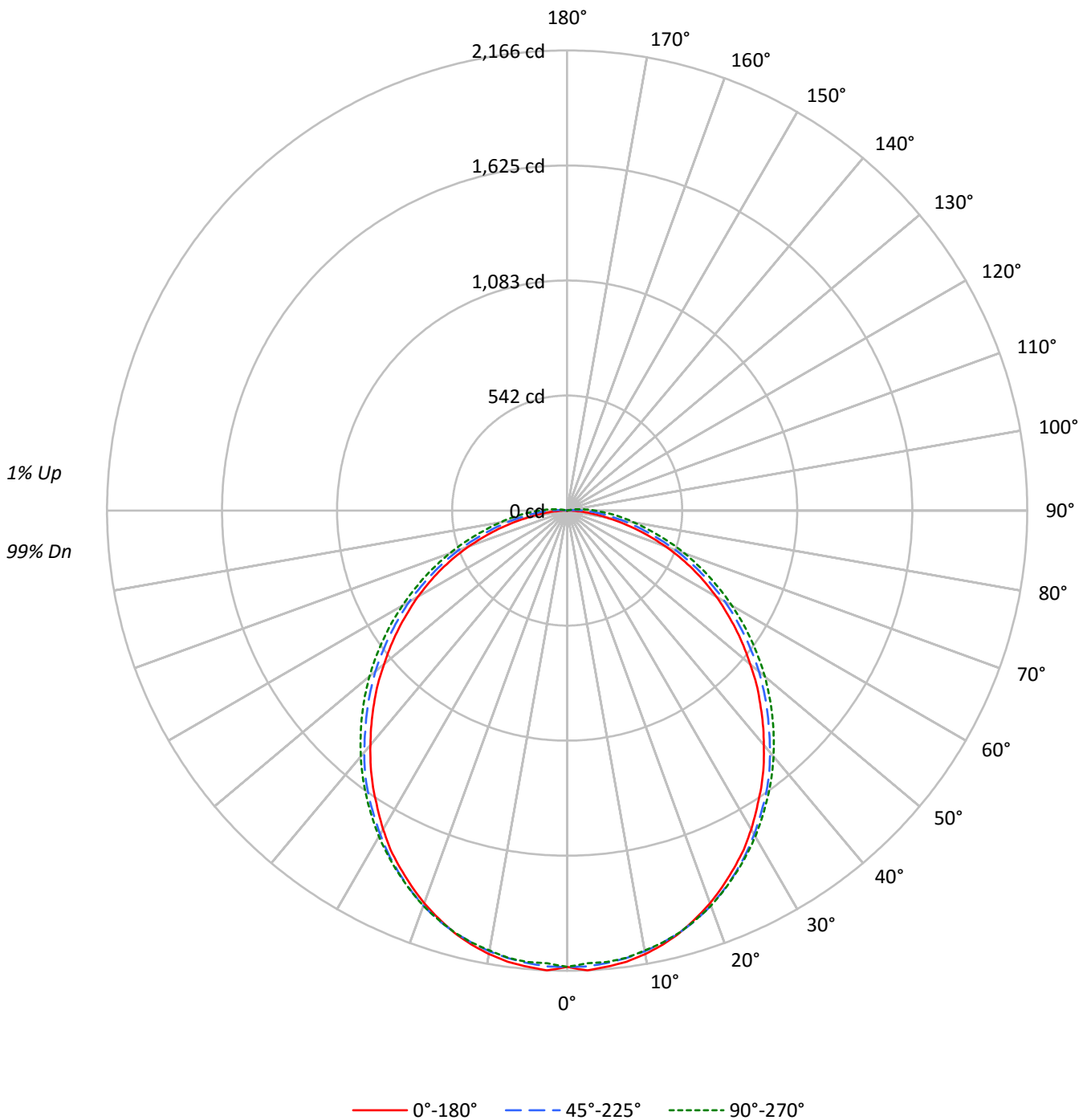
Input Watts (W): 58
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P257025

CATALOG NUMBER: HGL-S-FR-40L930-UNV-8

Luminous Intensity Polar Plot





TEST NUMBER: P257025

CATALOG NUMBER: HGL-S-FR-40L930-UNV-8

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°	12701	12568	12522
10°	12634	12489	12441
15°	12493	12381	12342
20°	12280	12226	12174
25°	12028	11990	11949
30°	11736	11721	11716
35°	11401	11439	11450
40°	11030	11090	11176
45°	10659	10720	10865
50°	10255	10373	10542
55°	9883	9948	10168
60°	9513	9558	9783
65°	9046	9076	9388
70°	8417	8566	9004
75°	7519	7892	8576
80°	6345	7450	8619
85°	5094	7677	9668



TEST NUMBER: P257025

CATALOG NUMBER: HGL-S-FR-40L930-UNV-8

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.0	3.4
10°-20°	577.5	9.8
20°-30°	860.0	14.6
30°-40°	1012.2	17.2
40°-50°	1022.4	17.3
50°-60°	906.0	15.4
60°-70°	689.3	11.7
70°-80°	413.8	7.0
80°-90°	170.1	2.9
90°-100°	37.0	0.6
100°-110°	1.8	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°	1640.5	27.8
0°-40°	2652.7	45.0
0°-60°	4581.1	77.7
0°-90°	5854.4	99.3
90°-120°	38.8	0.7
90°-150°	38.8	0.7
90°-180°	39.0	0.7
0°-180°	5893.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2148	2148	2148	2148	2148	
5°	2155	2131	2138	2135	2133	205
15°	2056	2036	2054	2052	2054	579
25°	1858	1843	1878	1876	1882	856
35°	1592	1586	1631	1639	1646	995
45°	1285	1291	1332	1351	1366	992
55°	967	980	1016	1042	1055	865
65°	653	662	698	726	739	645
75°	333	348	389	428	440	354
85°	77	101	155	200	215	86
90°	2	32	77	116	131	5
95°	0	2	28	56	67	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: P257025

CATALOG NUMBER: HGL-S-FR-40L930-UNV-8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2147.7	2147.7	2147.7	2147.7	2147.7
2.5°	2166.4	2142.1	2147.7	2144.0	2132.8
5°	2155.2	2130.9	2138.4	2134.6	2132.8
7.5°	2142.1	2117.8	2125.3	2121.5	2123.4
10°	2119.7	2095.3	2106.6	2102.8	2102.8
12.5°	2091.6	2071.0	2082.3	2078.5	2082.3
15°	2056.1	2035.5	2054.2	2052.3	2054.2
17.5°	2013.0	1994.3	2020.5	2016.8	2018.6
20°	1966.3	1947.6	1979.4	1971.9	1979.4
22.5°	1913.9	1898.9	1930.7	1925.1	1932.6
25°	1857.8	1842.8	1878.3	1876.5	1882.1
27.5°	1799.8	1786.7	1822.2	1825.9	1827.8
30°	1732.4	1723.1	1760.5	1766.1	1771.7
32.5°	1661.3	1655.7	1695.0	1704.3	1710.0
35°	1592.1	1586.5	1631.4	1638.9	1646.3
37.5°	1519.1	1515.4	1562.2	1569.6	1580.9
40°	1440.6	1442.4	1485.5	1498.5	1511.6
42.5°	1363.8	1367.6	1406.9	1425.6	1438.7
45°	1285.3	1290.9	1332.0	1350.8	1365.7
47.5°	1208.6	1214.2	1255.3	1275.9	1290.9
50°	1124.4	1137.5	1178.6	1197.3	1214.2
52.5°	1045.8	1058.9	1096.3	1120.6	1135.6
55°	967.2	980.3	1015.9	1042.1	1055.2
57.5°	886.8	905.5	937.3	963.5	976.6
60°	811.9	823.2	858.7	884.9	896.1
62.5°	731.5	742.7	776.4	808.2	815.7
65°	652.9	662.3	697.8	725.9	739.0
67.5°	572.5	583.7	619.3	649.2	662.3
70°	492.0	503.3	542.5	576.2	587.4
72.5°	409.7	422.8	462.1	501.4	514.5
75°	333.0	348.0	389.1	428.4	439.6
77.5°	258.2	276.9	321.8	362.9	377.9
80°	189.0	211.4	260.0	304.9	318.0
82.5°	129.1	153.4	203.9	250.7	267.5
85°	76.7	101.0	155.3	200.2	215.1
87.5°	33.7	59.9	112.3	155.3	168.4
90°	1.9	31.8	76.7	116.0	131.0
92.5°	0.0	13.1	48.6	82.3	97.3
95°	0.0	1.9	28.1	56.1	67.4
97.5°	0.0	0.0	13.1	33.7	43.0
100°	0.0	0.0	1.9	16.8	24.3
102.5°	1.9	0.0	0.0	3.7	9.4
105°	1.9	0.0	0.0	0.0	1.9
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: P257025

CATALOG NUMBER: HGL-S-FR-40L930-UNV-8

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)