

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: P257031

Luminaire Tested: **HGL-S-FR-50L940-UNV-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257031
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-50L940-UNV-8
Description: HUGO 8 FOOT LINEAR LED LUMINAIRE WITH FROSTED LENS
Light Source: (336) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7627.8 lumens
Efficiency: N/A
Efficacy: 102.2 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

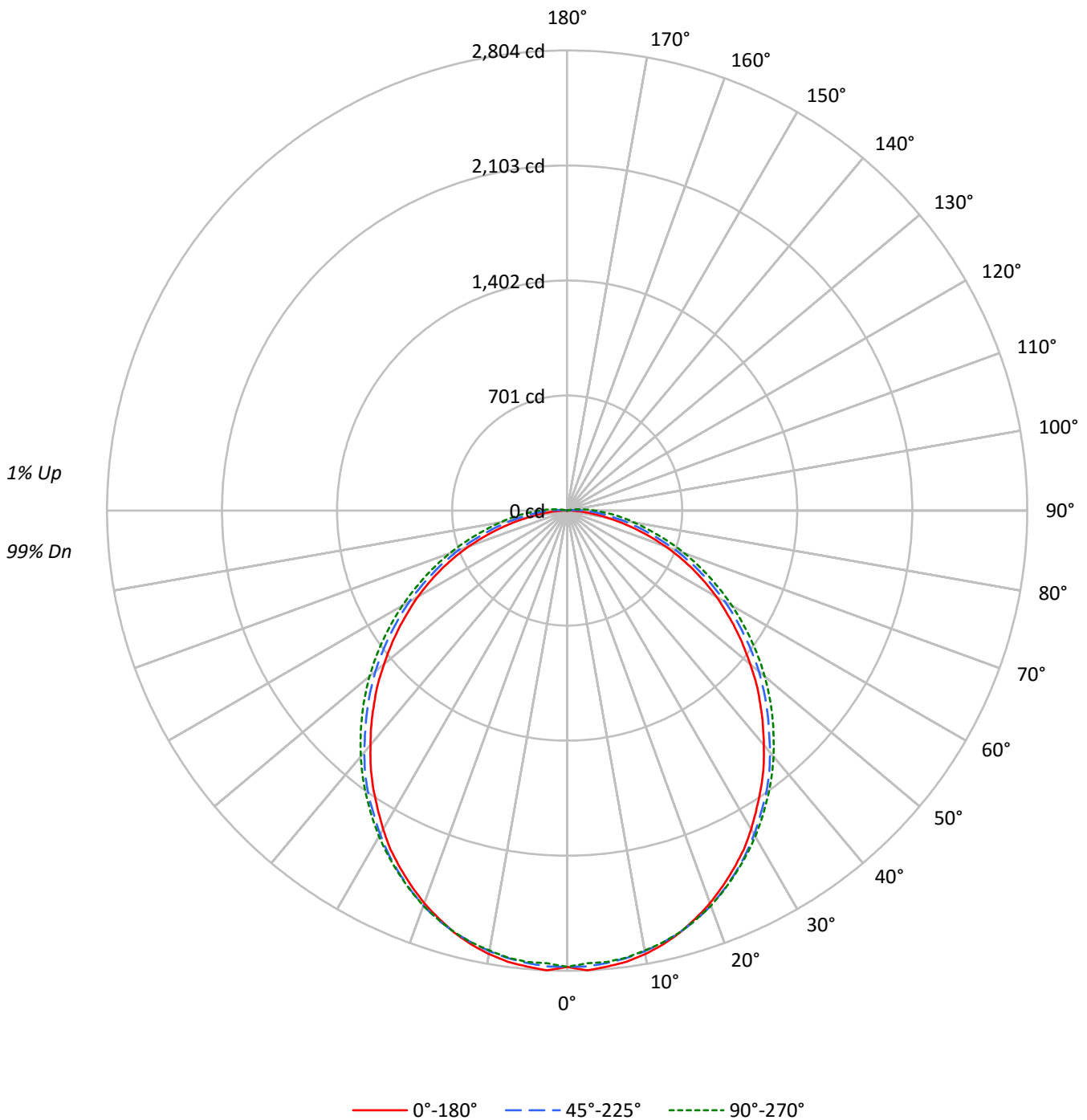
Input Watts (W): 74.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	16321	16321	16321
5°	16439	16267	16208
10°	16353	16165	16103
15°	16171	16025	15974
20°	15894	15825	15757
25°	15568	15520	15467
30°	15191	15170	15165
35°	14757	14806	14820
40°	14276	14354	14466
45°	13796	13875	14064
50°	13273	13427	13645
55°	12792	12876	13159
60°	12313	12372	12663
65°	11709	11748	12151
70°	10896	11087	11656
75°	9732	10216	11102
80°	8212	9645	11159
85°	6595	9936	12518



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.7	3.4
10°-20°	747.5	9.8
20°-30°	1113.2	14.6
30°-40°	1310.2	17.2
40°-50°	1323.3	17.3
50°-60°	1172.7	15.4
60°-70°	892.3	11.7
70°-80°	535.7	7.0
80°-90°	220.1	2.9
90°-100°	47.9	0.6
100°-110°	2.3	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°	2123.4	27.8
0°-40°	3433.6	45.0
0°-60°	5929.5	77.7
0°-90°	7577.6	99.3
90°-120°	50.2	0.7
90°-150°	50.2	0.7
90°-180°	50.0	0.7
0°-180°	7627.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2780	2780	2780	2780	2780	
5°	2790	2758	2768	2763	2760	265
15°	2661	2635	2659	2656	2659	750
25°	2405	2385	2431	2429	2436	1107
35°	2061	2054	2112	2121	2131	1288
45°	1664	1671	1724	1748	1768	1284
55°	1252	1269	1315	1349	1366	1119
65°	845	857	903	940	956	835
75°	431	450	504	554	569	458
85°	99	131	201	259	278	112
90°	2	41	99	150	170	7
95°	0	2	36	73	87	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



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2779.9	2779.9	2779.9	2779.9	2779.9
2.5°	2804.1	2772.6	2779.9	2775.1	2760.5
5°	2789.6	2758.1	2767.8	2763.0	2760.5
7.5°	2772.6	2741.2	2750.9	2746.0	2748.4
10°	2743.6	2712.1	2726.6	2721.8	2721.8
12.5°	2707.3	2680.6	2695.2	2690.3	2695.2
15°	2661.3	2634.6	2658.8	2656.4	2658.8
17.5°	2605.6	2581.3	2615.2	2610.4	2612.8
20°	2545.0	2520.8	2562.0	2552.3	2562.0
22.5°	2477.2	2457.9	2499.0	2491.8	2501.4
25°	2404.6	2385.2	2431.2	2428.8	2436.1
27.5°	2329.5	2312.6	2358.6	2363.4	2365.8
30°	2242.3	2230.2	2278.7	2285.9	2293.2
32.5°	2150.3	2143.1	2193.9	2206.0	2213.3
35°	2060.7	2053.5	2111.6	2121.3	2130.9
37.5°	1966.3	1961.4	2022.0	2031.7	2046.2
40°	1864.6	1867.0	1922.7	1939.6	1956.6
42.5°	1765.3	1770.1	1821.0	1845.2	1862.2
45°	1663.6	1670.9	1724.1	1748.3	1767.7
47.5°	1564.3	1571.6	1624.8	1651.5	1670.9
50°	1455.3	1472.3	1525.6	1549.8	1571.6
52.5°	1353.6	1370.6	1419.0	1450.5	1469.9
55°	1251.9	1268.9	1314.9	1348.8	1365.7
57.5°	1147.8	1172.0	1213.2	1247.1	1264.0
60°	1050.9	1065.5	1111.5	1145.4	1159.9
62.5°	946.8	961.3	1004.9	1046.1	1055.8
65°	845.1	857.2	903.2	939.6	956.5
67.5°	741.0	755.5	801.5	840.3	857.2
70°	636.9	651.4	702.2	745.8	760.4
72.5°	530.3	547.3	598.1	649.0	665.9
75°	431.0	450.4	503.7	554.5	569.1
77.5°	334.2	358.4	416.5	469.8	489.1
80°	244.6	273.6	336.6	394.7	411.7
82.5°	167.1	198.6	263.9	324.5	346.3
85°	99.3	130.8	201.0	259.1	278.5
87.5°	43.6	77.5	145.3	201.0	217.9
90°	2.4	41.2	99.3	150.1	169.5
92.5°	0.0	17.0	63.0	106.5	125.9
95°	0.0	2.4	36.3	72.6	87.2
97.5°	0.0	0.0	17.0	43.6	55.7
100°	0.0	0.0	2.4	21.8	31.5
102.5°	2.4	0.0	0.0	4.8	12.1
105°	2.4	0.0	0.0	0.0	2.4
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)