

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: P257041

Luminaire Tested: **HGL-S-FR-50L940-UNV-12**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257041
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-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: 11441.7 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: 12' x H: 0.01')
CIE Type: Direct

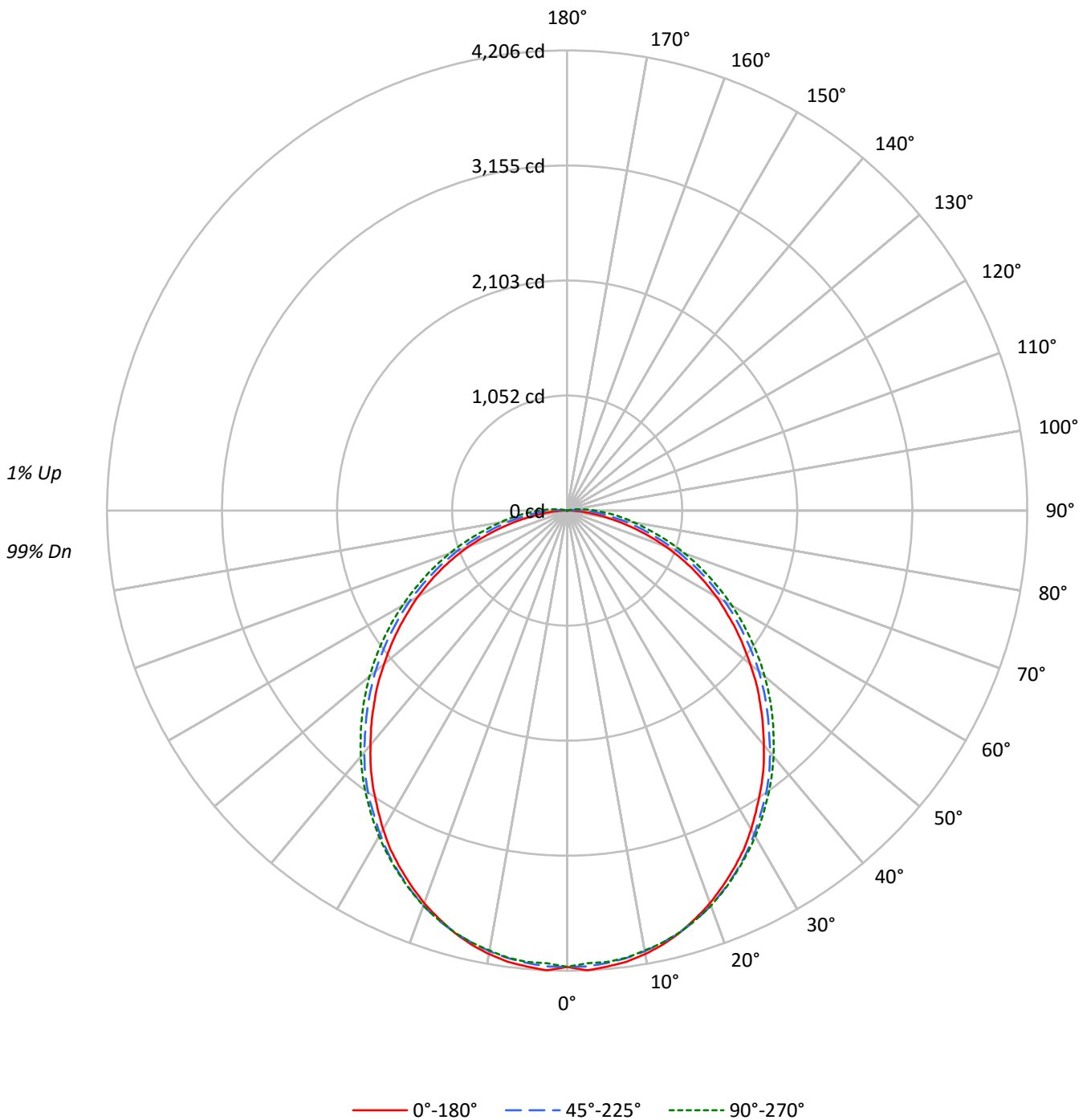
Input Watts (W): 112
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	16322	16322	16322
5°	16440	16268	16208
10°	16354	16166	16103
15°	16172	16026	15975
20°	15896	15826	15757
25°	15571	15522	15467
30°	15195	15173	15165
35°	14762	14809	14820
40°	14281	14357	14466
45°	13802	13879	14064
50°	13280	13431	13645
55°	12800	12881	13160
60°	12323	12377	12663
65°	11720	11755	12152
70°	10908	11097	11655
75°	9747	10226	11101
80°	8231	9658	11158
85°	6624	9960	12516



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	394.1	3.4
10°-20°	1121.2	9.8
20°-30°	1669.8	14.6
30°-40°	1965.2	17.2
40°-50°	1984.9	17.3
50°-60°	1759.0	15.4
60°-70°	1338.4	11.7
70°-80°	803.5	7.0
80°-90°	330.2	2.9
90°-100°	71.9	0.6
100°-110°	3.5	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°	3185.1	27.8
0°-40°	5150.4	45.0
0°-60°	8894.3	77.7
0°-90°	11366.4	99.3
90°-120°	75.3	0.7
90°-150°	75.3	0.7
90°-180°	75.0	0.7
0°-180°	11441.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4170	4170	4170	4170	4170	
5°	4184	4137	4152	4144	4141	397
15°	3992	3952	3988	3985	3988	1124
25°	3607	3578	3647	3643	3654	1661
35°	3091	3080	3167	3182	3196	1932
45°	2495	2506	2586	2622	2652	1926
55°	1878	1903	1972	2023	2049	1679
65°	1268	1286	1355	1409	1435	1253
75°	646	676	756	832	854	687
85°	149	196	302	389	418	167
90°	4	62	149	225	254	10
95°	0	4	54	109	131	0
105°	4	0	0	0	4	2
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°	4169.9	4169.9	4169.9	4169.9	4169.9
2.5°	4206.2	4159.0	4169.9	4162.6	4140.8
5°	4184.4	4137.2	4151.7	4144.4	4140.8
7.5°	4159.0	4111.8	4126.3	4119.0	4122.7
10°	4115.4	4068.2	4090.0	4082.7	4082.7
12.5°	4060.9	4020.9	4042.7	4035.5	4042.7
15°	3991.9	3951.9	3988.3	3984.6	3988.3
17.5°	3908.3	3872.0	3922.9	3915.6	3919.2
20°	3817.5	3781.2	3843.0	3828.4	3843.0
22.5°	3715.8	3686.8	3748.5	3737.6	3752.2
25°	3606.9	3577.8	3646.8	3643.2	3654.1
27.5°	3494.3	3468.8	3537.9	3545.1	3548.7
30°	3363.5	3345.3	3418.0	3428.9	3439.8
32.5°	3225.5	3214.6	3290.9	3309.0	3319.9
35°	3091.1	3080.2	3167.4	3181.9	3196.4
37.5°	2949.4	2942.2	3033.0	3047.5	3069.3
40°	2796.9	2800.5	2884.0	2909.5	2934.9
42.5°	2647.9	2655.2	2731.5	2767.8	2793.2
45°	2495.4	2506.3	2586.2	2622.5	2651.6
47.5°	2346.5	2357.4	2437.3	2477.2	2506.3
50°	2183.0	2208.4	2288.3	2324.7	2357.4
52.5°	2030.5	2055.9	2128.5	2175.7	2204.8
55°	1877.9	1903.3	1972.3	2023.2	2048.6
57.5°	1721.7	1758.0	1819.8	1870.6	1896.1
60°	1576.4	1598.2	1667.2	1718.1	1739.9
62.5°	1420.2	1442.0	1507.4	1569.1	1583.7
65°	1267.7	1285.8	1354.8	1409.3	1434.8
67.5°	1111.5	1133.3	1202.3	1260.4	1285.8
70°	955.3	977.1	1053.4	1118.7	1140.5
72.5°	795.5	820.9	897.2	973.5	998.9
75°	646.5	675.6	755.5	831.8	853.6
77.5°	501.3	537.6	624.8	704.7	733.7
80°	366.9	410.4	504.9	592.1	617.5
82.5°	250.6	297.8	395.9	486.7	519.4
85°	148.9	196.1	301.5	388.7	417.7
87.5°	65.4	116.2	217.9	301.5	326.9
90°	3.6	61.7	148.9	225.2	254.3
92.5°	0.0	25.4	94.4	159.8	188.9
95°	0.0	3.6	54.5	109.0	130.8
97.5°	0.0	0.0	25.4	65.4	83.5
100°	0.0	0.0	3.6	32.7	47.2
102.5°	3.6	0.0	0.0	7.3	18.2
105°	3.6	0.0	0.0	0.0	3.6
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)