

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: P257040

Luminaire Tested: **HGL-S-FR-40L940-UNV-12**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257040
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-40L940-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: 9142.9 lumens
Efficiency: N/A
Efficacy: 106.7 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

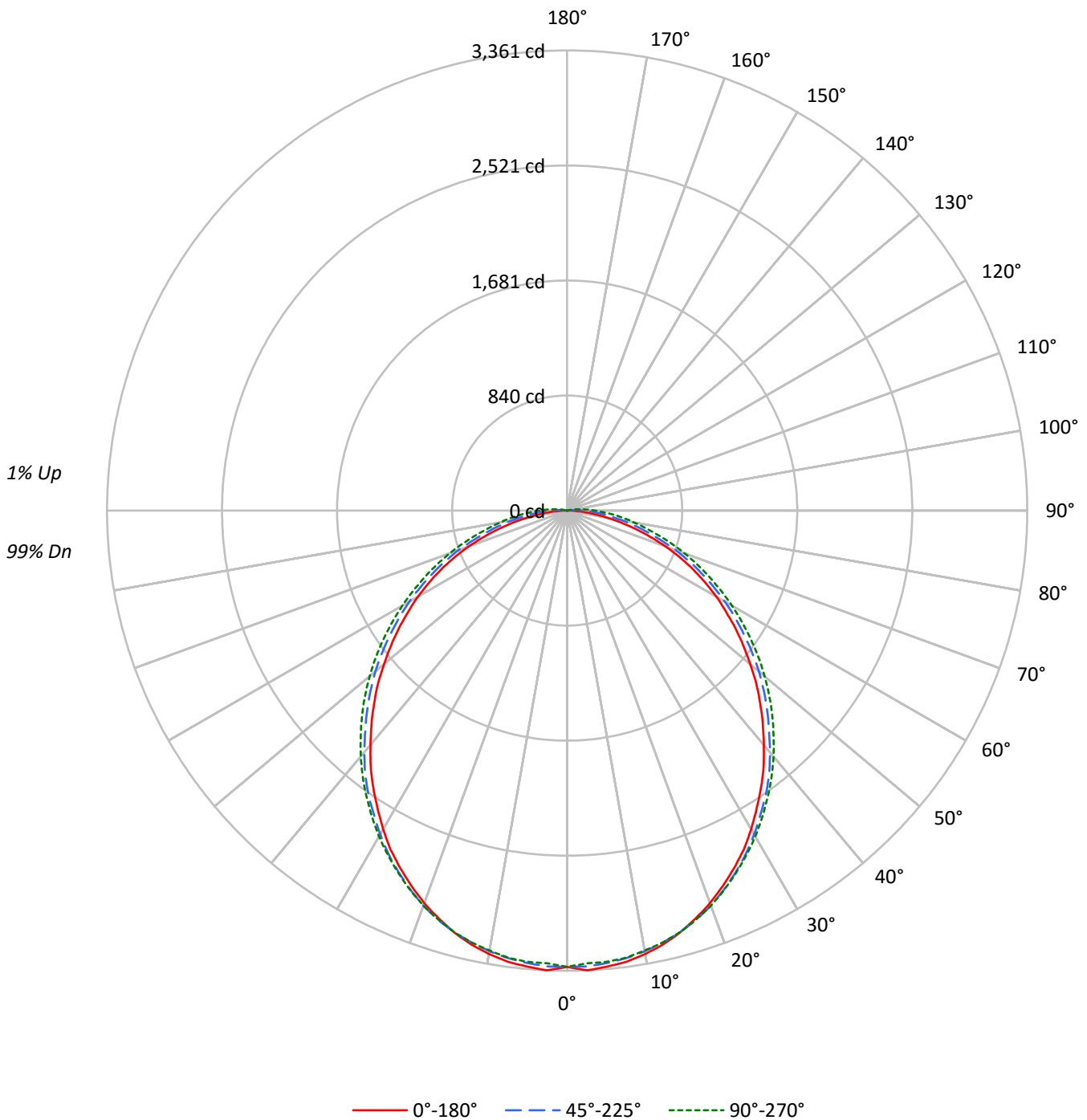
Input Watts (W): 85.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	13042	13042	13042
5°	13137	12999	12951
10°	13068	12918	12867
15°	12923	12806	12765
20°	12703	12646	12591
25°	12443	12403	12359
30°	12142	12124	12118
35°	11795	11833	11843
40°	11411	11473	11560
45°	11028	11091	11238
50°	10612	10733	10903
55°	10228	10293	10516
60°	9847	9890	10119
65°	9365	9393	9710
70°	8717	8867	9314
75°	7788	8171	8871
80°	6578	7717	8915
85°	5294	7958	10002



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.9	3.4
10°-20°	896.0	9.8
20°-30°	1334.3	14.6
30°-40°	1570.4	17.2
40°-50°	1586.1	17.3
50°-60°	1405.6	15.4
60°-70°	1069.5	11.7
70°-80°	642.1	7.0
80°-90°	263.8	2.9
90°-100°	57.4	0.6
100°-110°	2.8	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°	2545.2	27.8
0°-40°	4115.5	45.0
0°-60°	7107.3	77.7
0°-90°	9082.7	99.3
90°-120°	60.2	0.7
90°-150°	60.2	0.7
90°-180°	60.0	0.7
0°-180°	9142.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3332	3332	3332	3332	3332	
5°	3344	3306	3318	3312	3309	317
15°	3190	3158	3187	3184	3187	898
25°	2882	2859	2914	2911	2920	1327
35°	2470	2461	2531	2543	2554	1544
45°	1994	2003	2067	2096	2119	1539
55°	1501	1521	1576	1617	1637	1342
65°	1013	1028	1083	1126	1146	1001
75°	517	540	604	665	682	549
85°	119	157	241	311	334	134
90°	3	49	119	180	203	8
95°	0	3	44	87	104	0
105°	3	0	0	0	3	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°	3332.1	3332.1	3332.1	3332.1	3332.1
2.5°	3361.1	3323.4	3332.1	3326.3	3308.8
5°	3343.7	3305.9	3317.5	3311.7	3308.8
7.5°	3323.4	3285.6	3297.2	3291.4	3294.3
10°	3288.5	3250.8	3268.2	3262.4	3262.4
12.5°	3245.0	3213.1	3230.5	3224.7	3230.5
15°	3189.8	3157.9	3186.9	3184.0	3186.9
17.5°	3123.1	3094.1	3134.7	3128.9	3131.8
20°	3050.5	3021.5	3070.8	3059.2	3070.8
22.5°	2969.3	2946.0	2995.4	2986.7	2998.3
25°	2882.2	2859.0	2914.1	2911.2	2919.9
27.5°	2792.2	2771.9	2827.0	2832.8	2835.7
30°	2687.7	2673.2	2731.2	2740.0	2748.7
32.5°	2577.4	2568.7	2629.7	2644.2	2652.9
35°	2470.0	2461.3	2531.0	2542.6	2554.2
37.5°	2356.8	2351.0	2423.6	2435.2	2452.6
40°	2234.9	2237.8	2304.6	2324.9	2345.2
42.5°	2115.9	2121.7	2182.7	2211.7	2232.0
45°	1994.0	2002.7	2066.6	2095.6	2118.8
47.5°	1875.0	1883.7	1947.6	1979.5	2002.7
50°	1744.4	1764.7	1828.6	1857.6	1883.7
52.5°	1622.5	1642.8	1700.9	1738.6	1761.8
55°	1500.6	1520.9	1576.1	1616.7	1637.0
57.5°	1375.8	1404.8	1454.1	1494.8	1515.1
60°	1259.7	1277.1	1332.2	1372.9	1390.3
62.5°	1134.9	1152.3	1204.5	1253.9	1265.5
65°	1013.0	1027.5	1082.6	1126.2	1146.5
67.5°	888.2	905.6	960.7	1007.2	1027.5
70°	763.4	780.8	841.7	894.0	911.4
72.5°	635.6	656.0	716.9	777.9	798.2
75°	516.6	539.9	603.7	664.7	682.1
77.5°	400.5	429.6	499.2	563.1	586.3
80°	293.2	328.0	403.4	473.1	493.4
82.5°	200.3	238.0	316.4	388.9	415.1
85°	119.0	156.7	240.9	310.6	333.8
87.5°	52.2	92.9	174.1	240.9	261.2
90°	2.9	49.3	119.0	180.0	203.2
92.5°	0.0	20.3	75.5	127.7	150.9
95°	0.0	2.9	43.5	87.1	104.5
97.5°	0.0	0.0	20.3	52.2	66.8
100°	0.0	0.0	2.9	26.1	37.7
102.5°	2.9	0.0	0.0	5.8	14.5
105°	2.9	0.0	0.0	0.0	2.9
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)