

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: P233366

Luminaire Tested: **HGL-S-FR-40L840-UNV-12**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233366
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-40L840-UNV-12
Description: HUGO 12 FOOT LINEAR LED LUMINAIRE WITH FROSTED LENS
Light Source: (504) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11504.8 lumens
Efficiency: N/A
Efficacy: 134.2 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

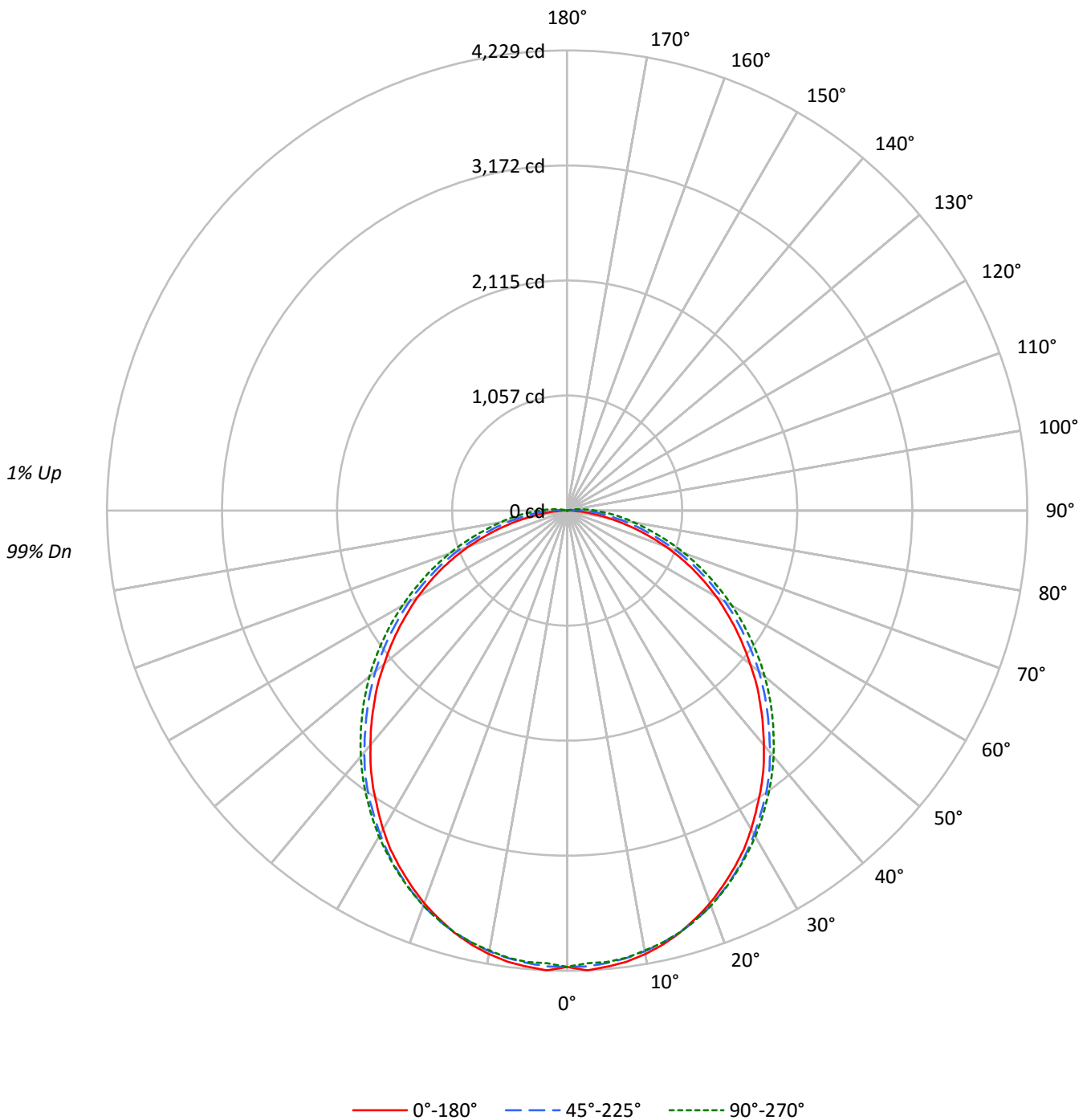
Input Watts (W): 85.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P233366

CATALOG NUMBER: HGL-S-FR-40L840-UNV-12

Luminous Intensity Polar Plot





TEST NUMBER: P233366

CATALOG NUMBER: HGL-S-FR-40L840-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°	16412	16412	16412
5°	16530	16357	16297
10°	16445	16255	16192
15°	16262	16115	16063
20°	15984	15914	15844
25°	15657	15608	15552
30°	15279	15256	15248
35°	14843	14890	14903
40°	14360	14437	14546
45°	13878	13956	14142
50°	13353	13505	13721
55°	12871	12952	13232
60°	12391	12446	12733
65°	11785	11820	12218
70°	10968	11158	11719
75°	9801	10282	11162
80°	8276	9712	11219
85°	6660	10013	12585



TEST NUMBER: P233366

CATALOG NUMBER: HGL-S-FR-40L840-UNV-12

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	396.3	3.4
10°-20°	1127.4	9.8
20°-30°	1679.0	14.6
30°-40°	1976.1	17.2
40°-50°	1995.9	17.3
50°-60°	1768.7	15.4
60°-70°	1345.8	11.7
70°-80°	807.9	7.0
80°-90°	332.0	2.9
90°-100°	72.3	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°	3202.7	27.8
0°-40°	5178.8	45.0
0°-60°	8943.4	77.7
0°-90°	11429.1	99.3
90°-120°	75.8	0.7
90°-150°	75.8	0.7
90°-180°	76.0	0.7
0°-180°	11504.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4193	4193	4193	4193	4193	
5°	4208	4160	4175	4167	4164	399
15°	4014	3974	4010	4007	4010	1131
25°	3627	3598	3667	3663	3674	1670
35°	3108	3097	3185	3199	3214	1943
45°	2509	2520	2600	2637	2666	1936
55°	1888	1914	1983	2034	2060	1688
65°	1275	1293	1362	1417	1443	1260
75°	650	679	760	836	858	690
85°	150	197	303	391	420	168
90°	4	62	150	226	256	10
95°	0	4	55	110	132	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



TEST NUMBER: P233366

CATALOG NUMBER: HGL-S-FR-40L840-UNV-12

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4192.9	4192.9	4192.9	4192.9	4192.9
2.5°	4229.4	4181.9	4192.9	4185.6	4163.7
5°	4207.5	4160.0	4174.6	4167.3	4163.7
7.5°	4181.9	4134.4	4149.0	4141.7	4145.4
10°	4138.1	4090.6	4112.5	4105.2	4105.2
12.5°	4083.3	4043.1	4065.0	4057.7	4065.0
15°	4013.9	3973.7	4010.3	4006.6	4010.3
17.5°	3929.9	3893.4	3944.5	3937.2	3940.9
20°	3838.6	3802.1	3864.2	3849.6	3864.2
22.5°	3736.3	3707.1	3769.2	3758.2	3772.9
25°	3626.8	3597.5	3666.9	3663.3	3674.2
27.5°	3513.5	3488.0	3557.4	3564.7	3568.3
30°	3382.1	3363.8	3436.8	3447.8	3458.8
32.5°	3243.3	3232.3	3309.0	3327.3	3338.2
35°	3108.1	3097.2	3184.8	3199.4	3214.1
37.5°	2965.7	2958.4	3049.7	3064.3	3086.2
40°	2812.3	2815.9	2900.0	2925.5	2951.1
42.5°	2662.5	2669.9	2746.6	2783.1	2808.6
45°	2509.2	2520.1	2600.5	2637.0	2666.2
47.5°	2359.4	2370.4	2450.7	2490.9	2520.1
50°	2195.1	2220.6	2301.0	2337.5	2370.4
52.5°	2041.7	2067.2	2140.3	2187.7	2217.0
55°	1888.3	1913.8	1983.2	2034.3	2059.9
57.5°	1731.2	1767.7	1829.8	1881.0	1906.5
60°	1585.1	1607.0	1676.4	1727.6	1749.5
62.5°	1428.1	1450.0	1515.7	1577.8	1592.4
65°	1274.7	1292.9	1362.3	1417.1	1442.7
67.5°	1117.6	1139.5	1208.9	1267.4	1292.9
70°	960.6	982.5	1059.2	1124.9	1146.8
72.5°	799.9	825.4	902.1	978.8	1004.4
75°	650.1	679.3	759.7	836.4	858.3
77.5°	504.0	540.5	628.2	708.6	737.8
80°	368.9	412.7	507.7	595.3	620.9
82.5°	252.0	299.5	398.1	489.4	522.3
85°	149.7	197.2	303.1	390.8	420.0
87.5°	65.7	116.9	219.1	303.1	328.7
90°	3.7	62.1	149.7	226.4	255.7
92.5°	0.0	25.6	95.0	160.7	189.9
95°	0.0	3.7	54.8	109.6	131.5
97.5°	0.0	0.0	25.6	65.7	84.0
100°	0.0	0.0	3.7	32.9	47.5
102.5°	3.7	0.0	0.0	7.3	18.3
105°	3.7	0.0	0.0	0.0	3.7
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: P233366

CATALOG NUMBER: HGL-S-FR-40L840-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)