

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: P233372

Luminaire Tested: **HGL-S-FR-50L840-UNV-12**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233372
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-50L840-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: 14397.6 lumens
Efficiency: N/A
Efficacy: 128.5 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

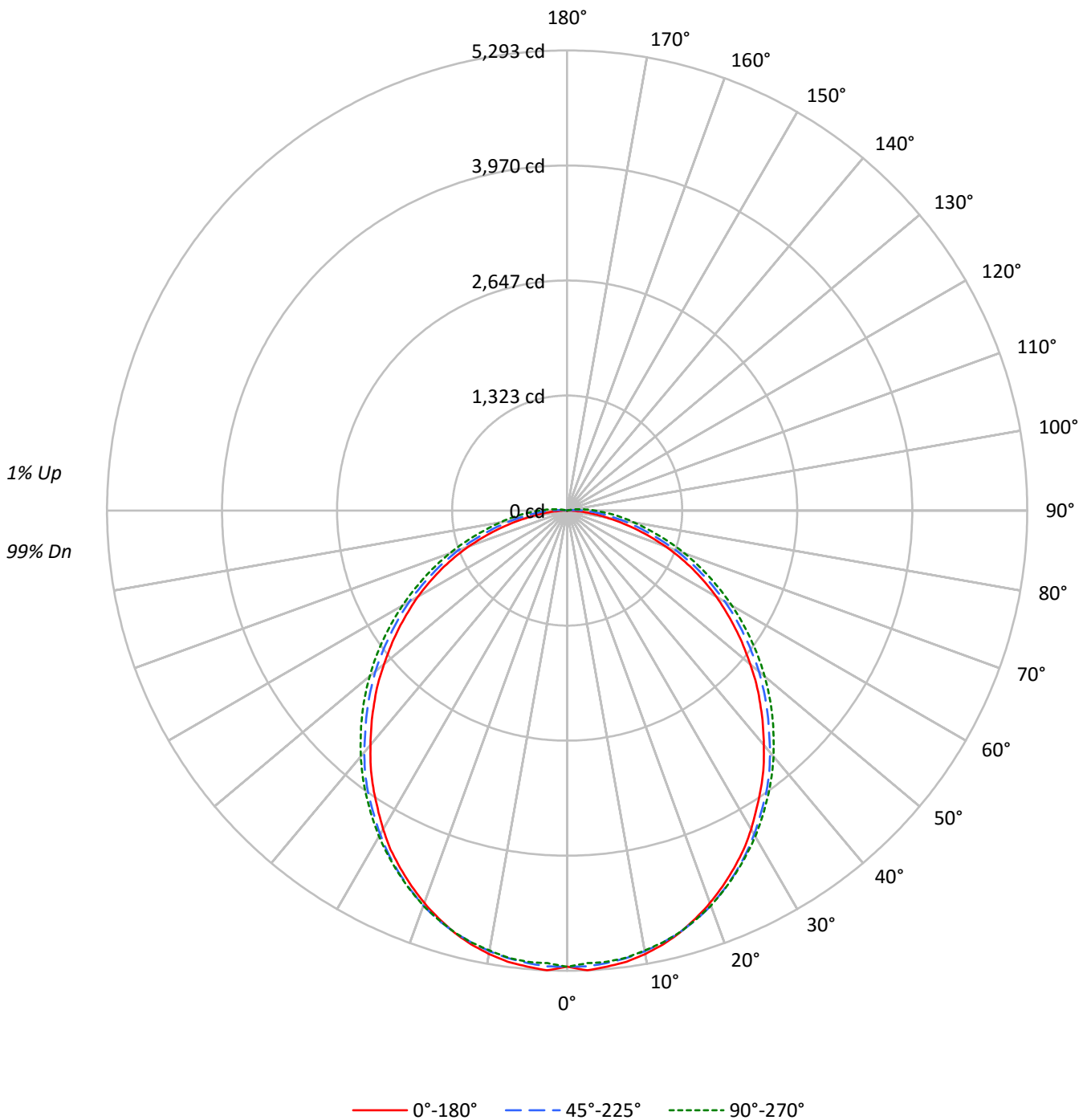
Input Watts (W): 112
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	20538	20538	20538
5°	20687	20470	20395
10°	20579	20343	20263
15°	20351	20167	20101
20°	20003	19915	19828
25°	19594	19532	19462
30°	19120	19092	19082
35°	18575	18634	18649
40°	17970	18066	18204
45°	17367	17465	17697
50°	16711	16901	17170
55°	16106	16209	16560
60°	15507	15575	15934
65°	14748	14793	15290
70°	13726	13963	14666
75°	12266	12867	13969
80°	10356	12153	14040
85°	8337	12534	15749



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	495.9	3.4
10°-20°	1410.9	9.8
20°-30°	2101.2	14.6
30°-40°	2472.9	17.2
40°-50°	2497.7	17.3
50°-60°	2213.4	15.4
60°-70°	1684.1	11.7
70°-80°	1011.1	7.0
80°-90°	415.5	2.9
90°-100°	90.4	0.6
100°-110°	4.4	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°	4008.0	27.8
0°-40°	6480.9	45.0
0°-60°	11192.1	77.7
0°-90°	14302.8	99.3
90°-120°	94.8	0.7
90°-150°	94.8	0.7
90°-180°	95.0	0.7
0°-180°	14397.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5247	5247	5247	5247	5247	
5°	5265	5206	5224	5215	5211	500
15°	5023	4973	5019	5014	5019	1415
25°	4539	4502	4589	4584	4598	2090
35°	3890	3876	3986	4004	4022	2431
45°	3140	3154	3254	3300	3337	2423
55°	2363	2395	2482	2546	2578	2113
65°	1595	1618	1705	1773	1805	1577
75°	814	850	951	1047	1074	864
85°	187	247	379	489	526	211
90°	5	78	187	283	320	13
95°	0	5	69	137	164	0
105°	5	0	0	0	5	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°	5247.1	5247.1	5247.1	5247.1	5247.1
2.5°	5292.8	5233.4	5247.1	5238.0	5210.6
5°	5265.4	5206.0	5224.3	5215.1	5210.6
7.5°	5233.4	5174.0	5192.3	5183.1	5187.7
10°	5178.6	5119.1	5146.6	5137.4	5137.4
12.5°	5110.0	5059.7	5087.2	5078.0	5087.2
15°	5023.2	4972.9	5018.6	5014.0	5018.6
17.5°	4918.0	4872.3	4936.3	4927.2	4931.7
20°	4803.8	4758.1	4835.8	4817.5	4835.8
22.5°	4675.8	4639.2	4716.9	4703.2	4721.5
25°	4538.7	4502.1	4588.9	4584.4	4598.1
27.5°	4397.0	4365.0	4451.8	4461.0	4465.5
30°	4232.4	4209.6	4301.0	4314.7	4328.4
32.5°	4058.8	4045.0	4141.0	4163.9	4177.6
35°	3889.6	3875.9	3985.6	4003.9	4022.2
37.5°	3711.4	3702.2	3816.5	3834.8	3862.2
40°	3519.4	3524.0	3629.1	3661.1	3693.1
42.5°	3332.0	3341.2	3437.1	3482.8	3514.8
45°	3140.0	3153.8	3254.3	3300.0	3336.6
47.5°	2952.7	2966.4	3066.9	3117.2	3153.8
50°	2747.0	2779.0	2879.5	2925.2	2966.4
52.5°	2555.0	2587.0	2678.4	2737.8	2774.4
55°	2363.0	2395.0	2481.9	2545.9	2577.9
57.5°	2166.5	2212.2	2289.9	2353.9	2385.9
60°	1983.7	2011.1	2097.9	2161.9	2189.3
62.5°	1787.1	1814.6	1896.8	1974.5	1992.8
65°	1595.2	1618.0	1704.9	1773.4	1805.4
67.5°	1398.6	1426.0	1512.9	1586.0	1618.0
70°	1202.1	1229.5	1325.5	1407.8	1435.2
72.5°	1001.0	1033.0	1129.0	1224.9	1256.9
75°	813.6	850.1	950.7	1046.7	1074.1
77.5°	630.8	676.5	786.2	886.7	923.3
80°	461.6	516.5	635.3	745.0	777.0
82.5°	315.4	374.8	498.2	612.5	653.6
85°	187.4	246.8	379.4	489.1	525.6
87.5°	82.3	146.3	274.2	379.4	411.4
90°	4.6	77.7	187.4	283.4	319.9
92.5°	0.0	32.0	118.8	201.1	237.7
95°	0.0	4.6	68.6	137.1	164.5
97.5°	0.0	0.0	32.0	82.3	105.1
100°	0.0	0.0	4.6	41.1	59.4
102.5°	4.6	0.0	0.0	9.1	22.9
105°	4.6	0.0	0.0	0.0	4.6
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)