

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: P233382

Luminaire Tested: **HGL-S-FR-80L835-UNV-12**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233382
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-80L835-UNV-12
Description: HUGO 12 FOOT LINEAR LED LUMINAIRE WITH FROSTED LENS
Light Source: (504) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24187.0 lumens
Efficiency: N/A
Efficacy: 114.1 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

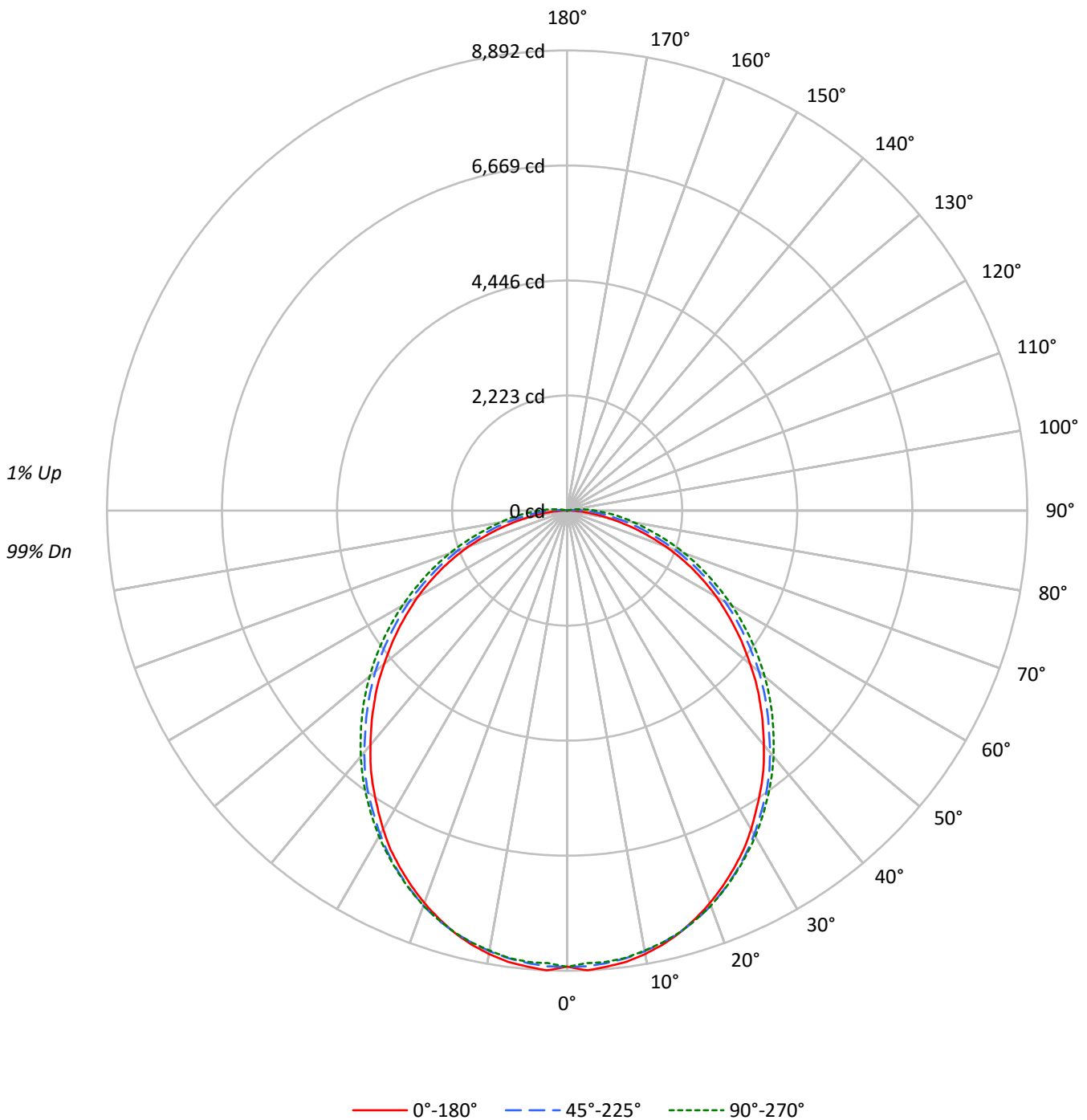
Input Watts (W): 212
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P233382

CATALOG NUMBER: HGL-S-FR-80L835-UNV-12

Luminous Intensity Polar Plot





TEST NUMBER: P233382

CATALOG NUMBER: HGL-S-FR-80L835-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°	34502	34502	34502
5°	34752	34389	34262
10°	34572	34174	34040
15°	34187	33878	33769
20°	33604	33456	33309
25°	32917	32813	32695
30°	32120	32074	32057
35°	31205	31304	31330
40°	30189	30351	30581
45°	29176	29340	29730
50°	28073	28393	28845
55°	27057	27230	27819
60°	26049	26165	26769
65°	24775	24850	25687
70°	23058	23456	24638
75°	20606	21616	23467
80°	17398	20417	23586
85°	14004	21054	26459



TEST NUMBER: P233382

CATALOG NUMBER: HGL-S-FR-80L835-UNV-12

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	833.1	3.4
10°-20°	2370.2	9.8
20°-30°	3529.8	14.6
30°-40°	4154.4	17.2
40°-50°	4196.0	17.3
50°-60°	3718.4	15.4
60°-70°	2829.3	11.7
70°-80°	1698.5	7.0
80°-90°	698.0	2.9
90°-100°	151.9	0.6
100°-110°	7.3	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°	6733.1	27.8
0°-40°	10887.5	45.0
0°-60°	18801.9	77.7
0°-90°	24027.7	99.3
90°-120°	159.2	0.7
90°-150°	159.2	0.7
90°-180°	159.0	0.7
0°-180°	24187.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8815	8815	8815	8815	8815	
5°	8846	8746	8776	8761	8753	840
15°	8439	8354	8431	8423	8431	2377
25°	7625	7563	7709	7701	7724	3511
35°	6534	6511	6696	6726	6757	4084
45°	5275	5298	5467	5544	5605	4071
55°	3970	4024	4169	4277	4331	3550
65°	2680	2718	2864	2979	3033	2649
75°	1367	1428	1597	1758	1804	1451
85°	315	415	637	822	883	354
90°	8	130	315	476	538	21
95°	0	8	115	230	276	0
105°	8	0	0	0	8	4
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: P233382

CATALOG NUMBER: HGL-S-FR-80L835-UNV-12

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8814.8	8814.8	8814.8	8814.8	8814.8
2.5°	8891.6	8791.8	8814.8	8799.5	8753.4
5°	8845.5	8745.7	8776.4	8761.1	8753.4
7.5°	8791.8	8692.0	8722.7	8707.3	8715.0
10°	8699.6	8599.8	8645.9	8630.5	8630.5
12.5°	8584.5	8500.0	8546.1	8530.7	8546.1
15°	8438.6	8354.1	8430.9	8423.2	8430.9
17.5°	8262.0	8185.2	8292.7	8277.3	8285.0
20°	8070.0	7993.2	8123.8	8093.0	8123.8
22.5°	7855.0	7793.6	7924.1	7901.1	7931.8
25°	7624.7	7563.2	7709.1	7701.4	7724.5
27.5°	7386.6	7332.9	7478.8	7494.1	7501.8
30°	7110.2	7071.8	7225.4	7248.4	7271.5
32.5°	6818.4	6795.4	6956.6	6995.0	7018.1
35°	6534.3	6511.3	6695.6	6726.3	6757.0
37.5°	6234.9	6219.5	6411.5	6442.2	6488.3
40°	5912.4	5920.1	6096.7	6150.4	6204.2
42.5°	5597.6	5612.9	5774.2	5850.9	5904.7
45°	5275.1	5298.1	5467.0	5543.8	5605.2
47.5°	4960.3	4983.3	5152.2	5236.7	5298.1
50°	4614.7	4668.5	4837.4	4914.2	4983.3
52.5°	4292.2	4346.0	4499.5	4599.4	4660.8
55°	3969.7	4023.5	4169.4	4276.9	4330.6
57.5°	3639.6	3716.3	3846.9	3954.4	4008.1
60°	3332.4	3378.5	3524.4	3631.9	3678.0
62.5°	3002.3	3048.3	3186.5	3317.1	3347.8
65°	2679.8	2718.2	2864.0	2979.2	3033.0
67.5°	2349.6	2395.7	2541.6	2664.4	2718.2
70°	2019.4	2065.5	2226.7	2364.9	2411.0
72.5°	1681.6	1735.3	1896.6	2057.8	2111.6
75°	1366.8	1428.2	1597.1	1758.4	1804.4
77.5°	1059.6	1136.4	1320.7	1489.6	1551.0
80°	775.5	867.7	1067.3	1251.6	1305.3
82.5°	529.8	629.6	836.9	1028.9	1098.0
85°	314.8	414.6	637.3	821.6	883.0
87.5°	138.2	245.7	460.7	637.3	691.1
90°	7.7	130.5	314.8	476.1	537.5
92.5°	0.0	53.7	199.6	337.8	399.3
95°	0.0	7.7	115.2	230.4	276.4
97.5°	0.0	0.0	53.7	138.2	176.6
100°	0.0	0.0	7.7	69.1	99.8
102.5°	7.7	0.0	0.0	15.4	38.4
105°	7.7	0.0	0.0	0.0	7.7
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: P233382

CATALOG NUMBER: HGL-S-FR-80L835-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)