

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: P233356

Luminaire Tested: **HGL-S-FR-30L830-UNV-12**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233356
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-30L830-UNV-12
Description: HUGO 12 FOOT LINEAR LED LUMINAIRE WITH FROSTED LENS
Light Source: (504) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9109.0 lumens
Efficiency: N/A
Efficacy: 139.9 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

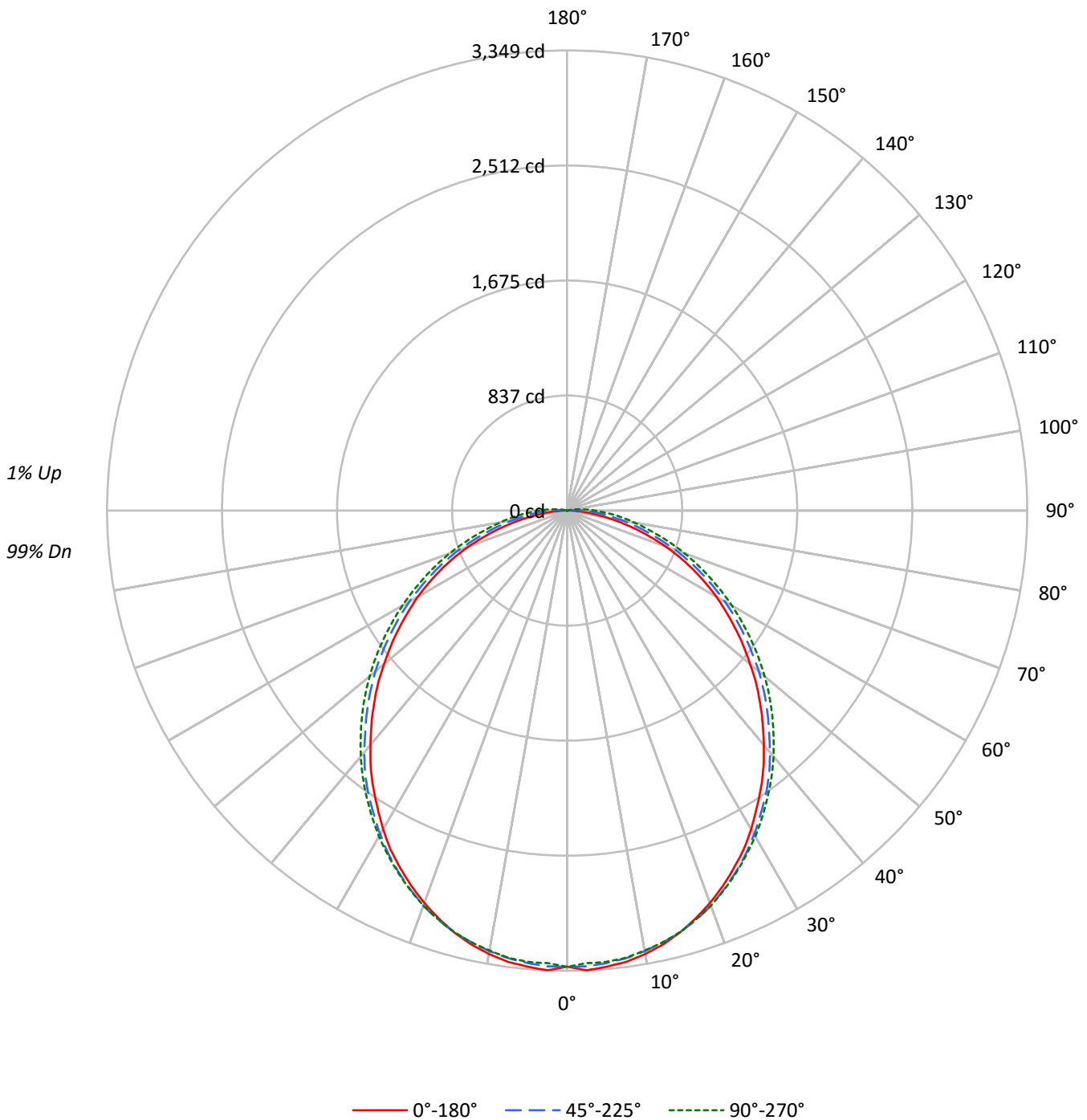
Input Watts (W): 65.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P233356

CATALOG NUMBER: HGL-S-FR-30L830-UNV-12

Luminous Intensity Polar Plot





TEST NUMBER: P233356

CATALOG NUMBER: HGL-S-FR-30L830-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°	12994	12994	12994
5°	13088	12951	12903
10°	13020	12870	12820
15°	12875	12759	12718
20°	12655	12600	12545
25°	12397	12358	12313
30°	12097	12079	12073
35°	11752	11789	11799
40°	11369	11430	11517
45°	10988	11049	11197
50°	10572	10693	10863
55°	10190	10255	10477
60°	9810	9854	10081
65°	9330	9359	9673
70°	8683	8834	9279
75°	7760	8141	8838
80°	6553	7690	8883
85°	5276	7929	9966



TEST NUMBER: P233356

CATALOG NUMBER: HGL-S-FR-30L830-UNV-12

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.8	3.4
10°-20°	892.6	9.8
20°-30°	1329.4	14.6
30°-40°	1564.6	17.2
40°-50°	1580.2	17.3
50°-60°	1400.4	15.4
60°-70°	1065.5	11.7
70°-80°	639.7	7.0
80°-90°	262.9	2.9
90°-100°	57.2	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°	2535.7	27.8
0°-40°	4100.3	45.0
0°-60°	7080.9	77.7
0°-90°	9049.0	99.3
90°-120°	60.0	0.7
90°-150°	60.0	0.7
90°-180°	60.0	0.7
0°-180°	9109.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3320	3320	3320	3320	3320	
5°	3331	3294	3305	3300	3297	316
15°	3178	3146	3175	3172	3175	895
25°	2872	2848	2903	2900	2909	1322
35°	2461	2452	2522	2533	2545	1538
45°	1987	1995	2059	2088	2111	1533
55°	1495	1515	1570	1611	1631	1337
65°	1009	1024	1079	1122	1142	998
75°	515	538	602	662	680	547
85°	119	156	240	309	333	133
90°	3	49	119	179	202	8
95°	0	3	43	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



TEST NUMBER: P233356

CATALOG NUMBER: HGL-S-FR-30L830-UNV-12

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3319.7	3319.7	3319.7	3319.7	3319.7
2.5°	3348.6	3311.0	3319.7	3313.9	3296.6
5°	3331.3	3293.7	3305.3	3299.5	3296.6
7.5°	3311.0	3273.5	3285.0	3279.2	3282.1
10°	3276.3	3238.8	3256.1	3250.3	3250.3
12.5°	3233.0	3201.2	3218.5	3212.7	3218.5
15°	3178.0	3146.2	3175.1	3172.2	3175.1
17.5°	3111.5	3082.6	3123.1	3117.3	3120.2
20°	3039.2	3010.3	3059.5	3047.9	3059.5
22.5°	2958.3	2935.1	2984.3	2975.6	2987.2
25°	2871.5	2848.4	2903.3	2900.4	2909.1
27.5°	2781.9	2761.6	2816.6	2822.3	2825.2
30°	2677.8	2663.3	2721.1	2729.8	2738.5
32.5°	2567.9	2559.2	2619.9	2634.4	2643.1
35°	2460.9	2452.2	2521.6	2533.2	2544.7
37.5°	2348.1	2342.3	2414.6	2426.2	2443.5
40°	2226.6	2229.5	2296.0	2316.3	2336.5
42.5°	2108.1	2113.9	2174.6	2203.5	2223.8
45°	1986.6	1995.3	2058.9	2087.8	2111.0
47.5°	1868.1	1876.7	1940.4	1972.2	1995.3
50°	1737.9	1758.2	1821.8	1850.7	1876.7
52.5°	1616.5	1636.7	1694.6	1732.2	1755.3
55°	1495.0	1515.3	1570.2	1610.7	1630.9
57.5°	1370.7	1399.6	1448.8	1489.2	1509.5
60°	1255.0	1272.4	1327.3	1367.8	1385.1
62.5°	1130.7	1148.0	1200.1	1249.2	1260.8
65°	1009.2	1023.7	1078.6	1122.0	1142.2
67.5°	884.9	902.2	957.2	1003.4	1023.7
70°	760.5	777.9	838.6	890.7	908.0
72.5°	633.3	653.5	714.3	775.0	795.2
75°	514.7	537.9	601.5	662.2	679.6
77.5°	399.1	428.0	497.4	561.0	584.1
80°	292.1	326.8	402.0	471.4	491.6
82.5°	199.5	237.1	315.2	387.5	413.5
85°	118.6	156.2	240.0	309.4	332.6
87.5°	52.1	92.5	173.5	240.0	260.3
90°	2.9	49.2	118.6	179.3	202.4
92.5°	0.0	20.2	75.2	127.2	150.4
95°	0.0	2.9	43.4	86.8	104.1
97.5°	0.0	0.0	20.2	52.1	66.5
100°	0.0	0.0	2.9	26.0	37.6
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



TEST NUMBER: P233356

CATALOG NUMBER: HGL-S-FR-30L830-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)