

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: P257037

Luminaire Tested: **HGL-S-FR-60L930-UNV-12**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257037
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-60L930-UNV-12
Description: HUGO 12 FOOT LINEAR LED LUMINAIRE WITH FROSTED LENS
Light Source: (504) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13366.9 lumens
Efficiency: N/A
Efficacy: 94.1 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

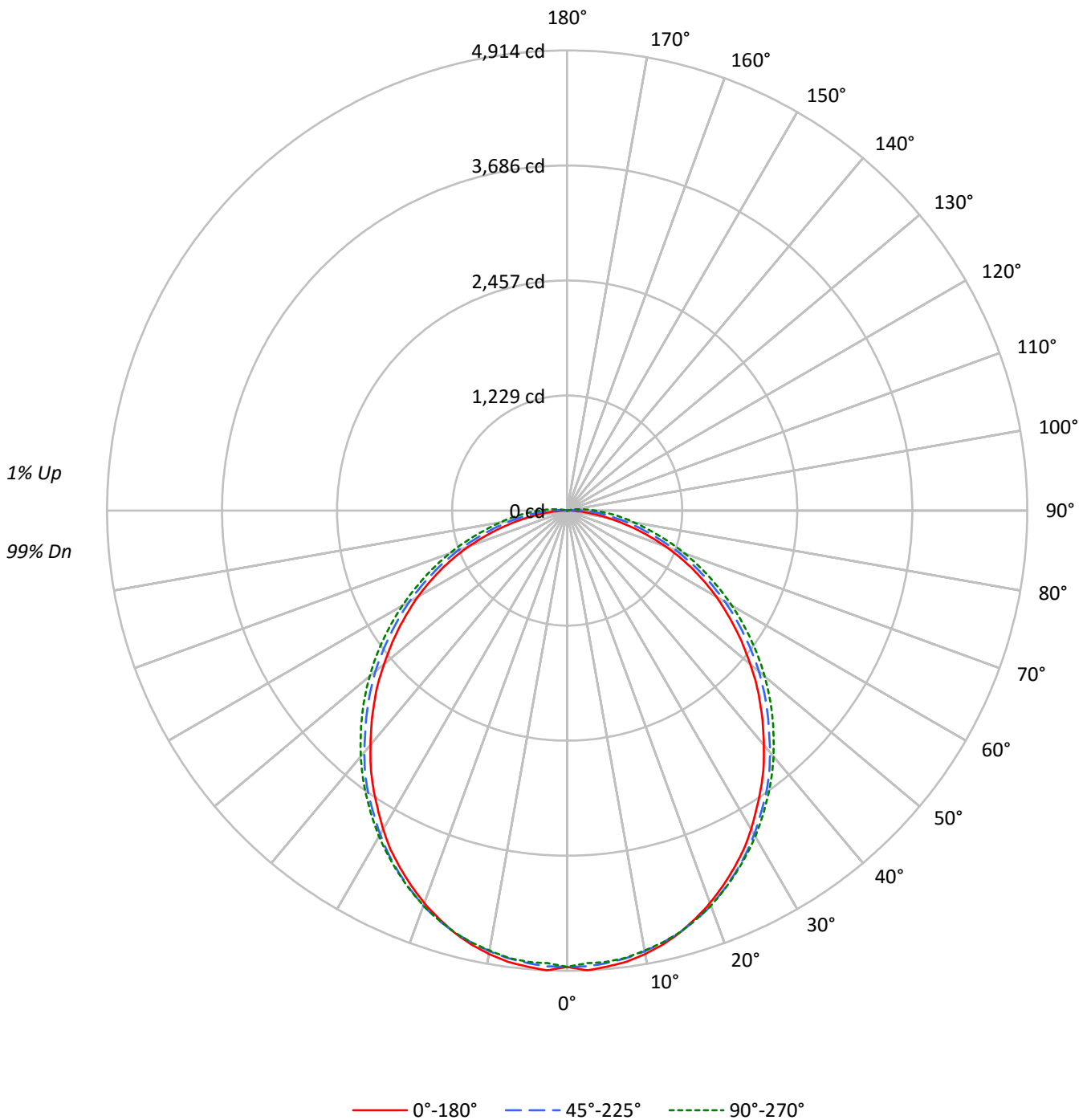
Input Watts (W): 142
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P257037

CATALOG NUMBER: HGL-S-FR-60L930-UNV-12

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°	19068	19068	19068
5°	19206	19005	18935
10°	19106	18886	18812
15°	18894	18723	18662
20°	18571	18489	18408
25°	18191	18134	18069
30°	17751	17726	17716
35°	17245	17300	17314
40°	16684	16773	16900
45°	16124	16214	16430
50°	15514	15691	15941
55°	14954	15048	15374
60°	14397	14460	14794
65°	13692	13733	14196
70°	12743	12963	13616
75°	11387	11946	12969
80°	9615	11282	13035
85°	7741	11635	14623



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	460.4	3.4
10°-20°	1309.9	9.8
20°-30°	1950.7	14.6
30°-40°	2295.9	17.2
40°-50°	2318.9	17.3
50°-60°	2055.0	15.4
60°-70°	1563.6	11.7
70°-80°	938.7	7.0
80°-90°	385.7	2.9
90°-100°	84.0	0.6
100°-110°	4.0	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°	3721.0	27.8
0°-40°	6016.9	45.0
0°-60°	10390.8	77.7
0°-90°	13278.9	99.3
90°-120°	88.0	0.7
90°-150°	88.0	0.7
90°-180°	88.0	0.7
0°-180°	13366.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4872	4872	4872	4872	4872	
5°	4888	4833	4850	4842	4838	464
15°	4664	4617	4659	4655	4659	1314
25°	4214	4180	4260	4256	4269	1941
35°	3611	3598	3700	3717	3734	2257
45°	2915	2928	3021	3064	3098	2250
55°	2194	2224	2304	2364	2393	1962
65°	1481	1502	1583	1646	1676	1464
75°	755	789	883	972	997	802
85°	174	229	352	454	488	196
90°	4	72	174	263	297	12
95°	0	4	64	127	153	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: P257037

CATALOG NUMBER: HGL-S-FR-60L930-UNV-12

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4871.5	4871.5	4871.5	4871.5	4871.5
2.5°	4913.9	4858.8	4871.5	4863.0	4837.5
5°	4888.5	4833.3	4850.3	4841.8	4837.5
7.5°	4858.8	4803.6	4820.6	4812.1	4816.3
10°	4807.8	4752.7	4778.1	4769.6	4769.6
12.5°	4744.2	4697.5	4723.0	4714.5	4723.0
15°	4663.6	4616.9	4659.3	4655.1	4659.3
17.5°	4566.0	4523.5	4582.9	4574.4	4578.7
20°	4459.9	4417.4	4489.6	4472.6	4489.6
22.5°	4341.1	4307.1	4379.2	4366.5	4383.5
25°	4213.7	4179.8	4260.4	4256.2	4268.9
27.5°	4082.2	4052.5	4133.1	4141.6	4145.9
30°	3929.4	3908.2	3993.1	4005.8	4018.5
32.5°	3768.2	3755.5	3844.6	3865.8	3878.5
35°	3611.2	3598.4	3700.3	3717.3	3734.2
37.5°	3445.7	3437.2	3543.3	3560.3	3585.7
40°	3267.5	3271.7	3369.3	3399.0	3428.7
42.5°	3093.5	3102.0	3191.1	3233.5	3263.2
45°	2915.3	2928.0	3021.3	3063.8	3097.7
47.5°	2741.3	2754.0	2847.4	2894.0	2928.0
50°	2550.3	2580.0	2673.4	2715.8	2754.0
52.5°	2372.1	2401.8	2486.7	2541.8	2575.8
55°	2193.9	2223.6	2304.2	2363.6	2393.3
57.5°	2011.4	2053.8	2126.0	2185.4	2215.1
60°	1841.7	1867.1	1947.7	2007.2	2032.6
62.5°	1659.2	1684.7	1761.0	1833.2	1850.1
65°	1481.0	1502.2	1582.8	1646.5	1676.2
67.5°	1298.5	1324.0	1404.6	1472.5	1502.2
70°	1116.0	1141.5	1230.6	1307.0	1332.4
72.5°	929.3	959.0	1048.1	1137.2	1166.9
75°	755.3	789.3	882.6	971.8	997.2
77.5°	585.6	628.0	729.9	823.2	857.2
80°	428.6	479.5	589.8	691.7	721.4
82.5°	292.8	348.0	462.5	568.6	606.8
85°	174.0	229.1	352.2	454.0	488.0
87.5°	76.4	135.8	254.6	352.2	381.9
90°	4.2	72.1	174.0	263.1	297.0
92.5°	0.0	29.7	110.3	186.7	220.7
95°	0.0	4.2	63.7	127.3	152.8
97.5°	0.0	0.0	29.7	76.4	97.6
100°	0.0	0.0	4.2	38.2	55.2
102.5°	4.2	0.0	0.0	8.5	21.2
105°	4.2	0.0	0.0	0.0	4.2
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: P257037

CATALOG NUMBER: HGL-S-FR-60L930-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)