

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: P257016

Luminaire Tested: **HGL-S-FR-60L930-UNV-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257016
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-4
Description: HUGO 4 FOOT LINEAR LED LUMINAIRE WITH FROSTED LENS
Light Source: (168) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4455.6 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.33
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 4' x H: 0.01')
CIE Type: Direct

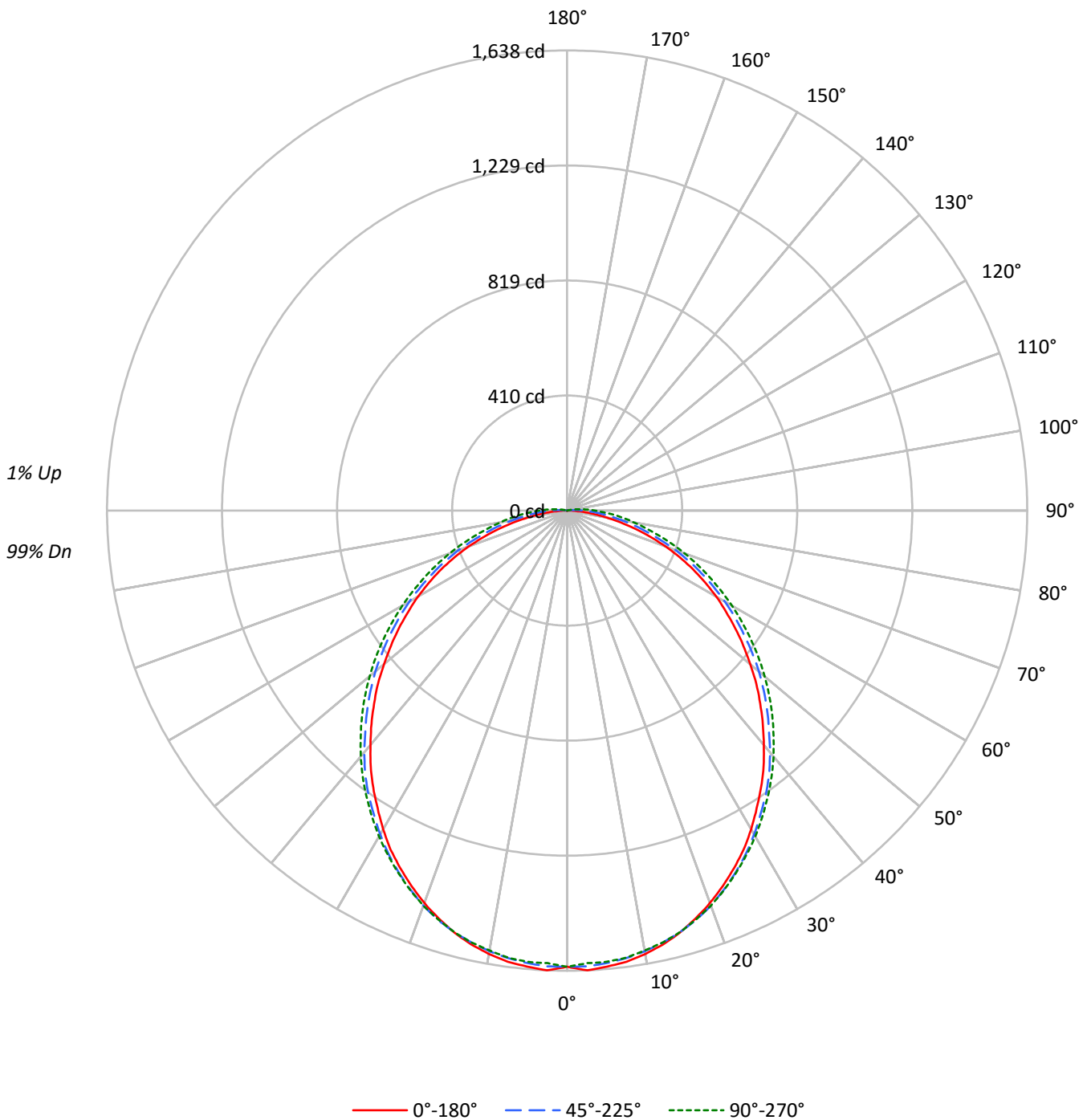
Input Watts (W): 47.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P257016

CATALOG NUMBER: HGL-S-FR-60L930-UNV-4

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°	19067	19067	19067
5°	19203	19003	18935
10°	19100	18882	18813
15°	18885	18717	18662
20°	18560	18481	18408
25°	18177	18124	18069
30°	17734	17713	17716
35°	17225	17286	17314
40°	16661	16757	16900
45°	16098	16196	16431
50°	15483	15669	15941
55°	14918	15025	15375
60°	14355	14431	14793
65°	13644	13701	14195
70°	12685	12925	13615
75°	11318	11899	12969
80°	9528	11219	13037
85°	7597	11521	14626



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CATALOG NUMBER: HGL-S-FR-60L930-UNV-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.5	3.4
10°-20°	436.6	9.8
20°-30°	650.2	14.6
30°-40°	765.3	17.2
40°-50°	773.0	17.3
50°-60°	685.0	15.4
60°-70°	521.2	11.7
70°-80°	312.9	7.0
80°-90°	128.6	2.9
90°-100°	28.0	0.6
100°-110°	1.3	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°	1240.3	27.8
0°-40°	2005.6	45.0
0°-60°	3463.6	77.7
0°-90°	4426.3	99.3
90°-120°	29.3	0.7
90°-150°	29.3	0.7
90°-180°	29.0	0.7
0°-180°	4455.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1624	1624	1624	1624	1624	
5°	1630	1611	1617	1614	1612	155
15°	1554	1539	1553	1552	1553	438
25°	1405	1393	1420	1419	1423	647
35°	1204	1200	1233	1239	1245	752
45°	972	976	1007	1021	1033	750
55°	731	741	768	788	798	654
65°	494	501	528	549	559	488
75°	252	263	294	324	332	267
85°	58	76	117	151	163	65
90°	1	24	58	88	99	4
95°	0	1	21	42	51	0
105°	1	0	0	0	1	1
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: P257016

CATALOG NUMBER: HGL-S-FR-60L930-UNV-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1623.8	1623.8	1623.8	1623.8	1623.8
2.5°	1638.0	1619.6	1623.8	1621.0	1612.5
5°	1629.5	1611.1	1616.8	1613.9	1612.5
7.5°	1619.6	1601.2	1606.9	1604.0	1605.4
10°	1602.6	1584.2	1592.7	1589.9	1589.9
12.5°	1581.4	1565.8	1574.3	1571.5	1574.3
15°	1554.5	1539.0	1553.1	1551.7	1553.1
17.5°	1522.0	1507.8	1527.6	1524.8	1526.2
20°	1486.6	1472.5	1496.5	1490.9	1496.5
22.5°	1447.0	1435.7	1459.7	1455.5	1461.2
25°	1404.6	1393.3	1420.1	1418.7	1423.0
27.5°	1360.7	1350.8	1377.7	1380.5	1382.0
30°	1309.8	1302.7	1331.0	1335.3	1339.5
32.5°	1256.1	1251.8	1281.5	1288.6	1292.8
35°	1203.7	1199.5	1233.4	1239.1	1244.7
37.5°	1148.6	1145.7	1181.1	1186.8	1195.2
40°	1089.2	1090.6	1123.1	1133.0	1142.9
42.5°	1031.2	1034.0	1063.7	1077.8	1087.7
45°	971.8	976.0	1007.1	1021.3	1032.6
47.5°	913.8	918.0	949.1	964.7	976.0
50°	850.1	860.0	891.1	905.3	918.0
52.5°	790.7	800.6	828.9	847.3	858.6
55°	731.3	741.2	768.1	787.9	797.8
57.5°	670.5	684.6	708.7	728.5	738.4
60°	613.9	622.4	649.2	669.1	677.5
62.5°	553.1	561.6	587.0	611.1	616.7
65°	493.7	500.7	527.6	548.8	558.7
67.5°	432.8	441.3	468.2	490.8	500.7
70°	372.0	380.5	410.2	435.7	444.1
72.5°	309.8	319.7	349.4	379.1	389.0
75°	251.8	263.1	294.2	323.9	332.4
77.5°	195.2	209.3	243.3	274.4	285.7
80°	142.9	159.8	196.6	230.6	240.5
82.5°	97.6	116.0	154.2	189.5	202.3
85°	58.0	76.4	117.4	151.3	162.7
87.5°	25.5	45.3	84.9	117.4	127.3
90°	1.4	24.0	58.0	87.7	99.0
92.5°	0.0	9.9	36.8	62.2	73.6
95°	0.0	1.4	21.2	42.4	50.9
97.5°	0.0	0.0	9.9	25.5	32.5
100°	0.0	0.0	1.4	12.7	18.4
102.5°	1.4	0.0	0.0	2.8	7.1
105°	1.4	0.0	0.0	0.0	1.4
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: P257016

CATALOG NUMBER: HGL-S-FR-60L930-UNV-4

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)