

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: P231396

Luminaire Tested: **HGL-S-FR-60L835-UNV-4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P231396  
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-60L835-UNV-4  
Description: HUGO 4 FOOT LINEAR LED LUMINAIRE WITH FROSTED LENS  
Light Source: (168) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6016.0 lumens  
Efficiency: N/A  
Efficacy: 126.4 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

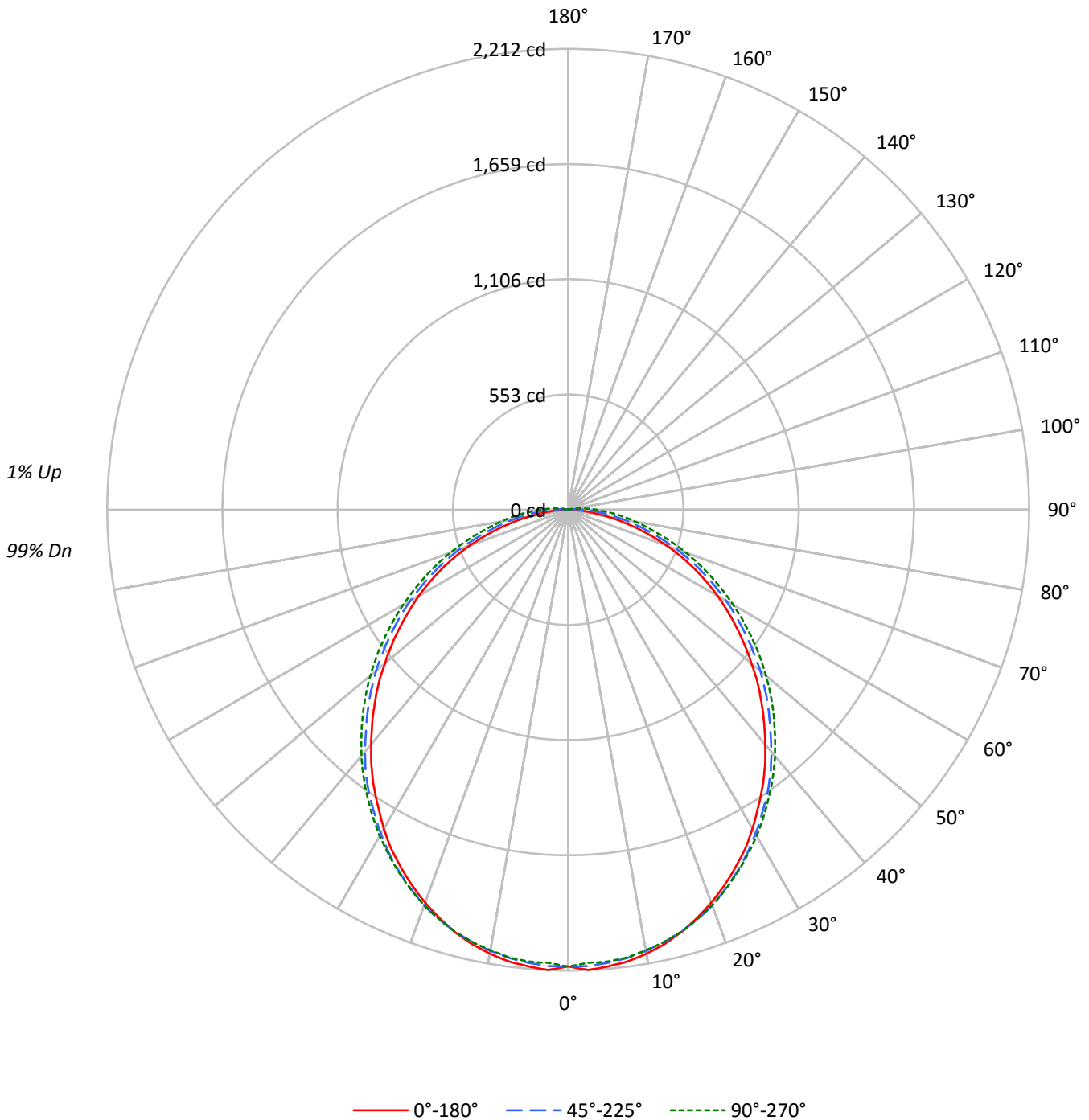
Input Watts (W): 47.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P231396

CATALOG NUMBER: HGL-S-FR-60L835-UNV-4

### Luminous Intensity Polar Plot





TEST NUMBER: P231396

CATALOG NUMBER: HGL-S-FR-60L835-UNV-4

**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°	25745	25745	25745
5°	25929	25658	25566
10°	25790	25495	25401
15°	25499	25272	25198
20°	25060	24953	24855
25°	24543	24472	24397
30°	23945	23918	23920
35°	23258	23340	23378
40°	22495	22625	22820
45°	21735	21868	22184
50°	20906	21157	21524
55°	20142	20287	20759
60°	19383	19486	19974
65°	18420	18500	19167
70°	17128	17453	18385
75°	15283	16065	17510
80°	12862	15151	17601
85°	10256	15555	19741



TEST NUMBER: P231396

CATALOG NUMBER: HGL-S-FR-60L835-UNV-4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	207.2	3.4
10°-20°	589.5	9.8
20°-30°	878.0	14.6
30°-40°	1033.3	17.2
40°-50°	1043.7	17.3
50°-60°	924.9	15.4
60°-70°	703.7	11.7
70°-80°	422.5	7.0
80°-90°	173.6	2.9
90°-100°	37.8	0.6
100°-110°	1.8	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°	1674.7	27.8
0°-40°	2708.0	45.0
0°-60°	4676.6	77.7
0°-90°	5976.4	99.3
90°-120°	39.6	0.7
90°-150°	39.6	0.7
90°-180°	40.0	0.7
0°-180°	6016.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2192	2192	2192	2192	2192	
5°	2200	2175	2183	2179	2177	209
15°	2099	2078	2097	2095	2097	591
25°	1896	1881	1918	1916	1921	873
35°	1625	1620	1665	1673	1681	1016
45°	1312	1318	1360	1379	1394	1013
55°	987	1001	1037	1064	1077	883
65°	666	676	712	741	754	659
75°	340	355	397	437	449	361
85°	78	103	158	204	220	88
90°	2	32	78	118	134	5
95°	0	2	29	57	69	0
105°	2	0	0	0	2	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: P231396

CATALOG NUMBER: HGL-S-FR-60L835-UNV-4

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2192.5	2192.5	2192.5	2192.5	2192.5
2.5°	2211.6	2186.8	2192.5	2188.7	2177.2
5°	2200.2	2175.3	2183.0	2179.1	2177.2
7.5°	2186.8	2162.0	2169.6	2165.8	2167.7
10°	2163.9	2139.0	2150.5	2146.7	2146.7
12.5°	2135.2	2114.2	2125.7	2121.8	2125.7
15°	2098.9	2077.9	2097.0	2095.1	2097.0
17.5°	2055.0	2035.9	2062.6	2058.8	2060.7
20°	2007.3	1988.2	2020.6	2013.0	2020.6
22.5°	1953.8	1938.5	1971.0	1965.2	1972.9
25°	1896.5	1881.2	1917.5	1915.6	1921.3
27.5°	1837.3	1823.9	1860.2	1864.0	1865.9
30°	1768.5	1759.0	1797.2	1802.9	1808.6
32.5°	1695.9	1690.2	1730.3	1739.9	1745.6
35°	1625.3	1619.6	1665.4	1673.0	1680.7
37.5°	1550.8	1547.0	1594.7	1602.4	1613.8
40°	1470.6	1472.5	1516.4	1529.8	1543.2
42.5°	1392.3	1396.1	1436.2	1455.3	1468.7
45°	1312.1	1317.8	1359.8	1378.9	1394.2
47.5°	1233.8	1239.5	1281.5	1302.5	1317.8
50°	1147.8	1161.2	1203.2	1222.3	1239.5
52.5°	1067.6	1081.0	1119.2	1144.0	1159.3
55°	987.4	1000.8	1037.1	1063.8	1077.2
57.5°	905.3	924.4	956.8	983.6	996.9
60°	828.9	840.3	876.6	903.4	914.8
62.5°	746.8	758.2	792.6	825.1	832.7
65°	666.5	676.1	712.4	741.0	754.4
67.5°	584.4	595.9	632.2	662.7	676.1
70°	502.3	513.8	553.9	588.2	599.7
72.5°	418.3	431.6	471.7	511.8	525.2
75°	340.0	355.2	397.2	437.4	448.8
77.5°	263.6	282.7	328.5	370.5	385.8
80°	192.9	215.8	265.5	311.3	324.7
82.5°	131.8	156.6	208.2	255.9	273.1
85°	78.3	103.1	158.5	204.4	219.6
87.5°	34.4	61.1	114.6	158.5	171.9
90°	1.9	32.5	78.3	118.4	133.7
92.5°	0.0	13.4	49.7	84.0	99.3
95°	0.0	1.9	28.6	57.3	68.8
97.5°	0.0	0.0	13.4	34.4	43.9
100°	0.0	0.0	1.9	17.2	24.8
102.5°	1.9	0.0	0.0	3.8	9.5
105°	1.9	0.0	0.0	0.0	1.9
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: P231396

CATALOG NUMBER: HGL-S-FR-60L835-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)