

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: P231394

Luminaire Tested: **HGL-S-FR-50L835-UNV-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P231394
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-50L835-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: 4978.9 lumens
Efficiency: N/A
Efficacy: 129.3 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

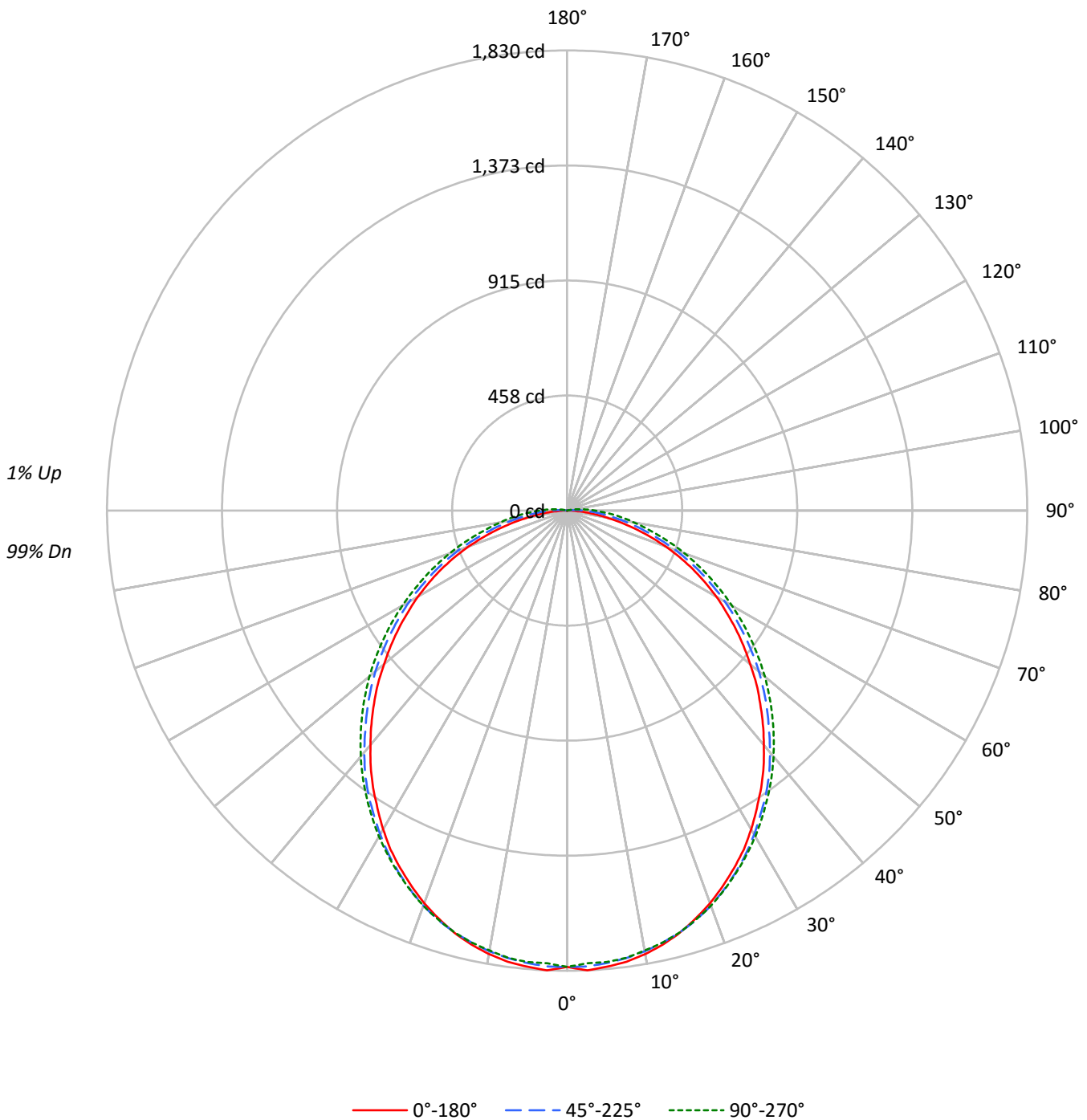
Input Watts (W): 38.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	21307	21307	21307
5°	21458	21234	21159
10°	21343	21099	21022
15°	21103	20915	20854
20°	20740	20652	20570
25°	20311	20252	20191
30°	19816	19793	19796
35°	19248	19316	19347
40°	18617	18725	18885
45°	17988	18098	18359
50°	17301	17510	17813
55°	16670	16789	17180
60°	16041	16127	16531
65°	15244	15311	15862
70°	14175	14443	15215
75°	12644	13298	14490
80°	10642	12537	14565
85°	8488	12875	16343



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.5	3.4
10°-20°	487.9	9.8
20°-30°	726.6	14.6
30°-40°	855.2	17.2
40°-50°	863.8	17.3
50°-60°	765.4	15.4
60°-70°	582.4	11.7
70°-80°	349.6	7.0
80°-90°	143.7	2.9
90°-100°	31.3	0.6
100°-110°	1.5	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°	1386.0	27.8
0°-40°	2241.2	45.0
0°-60°	3870.4	77.7
0°-90°	4946.1	99.3
90°-120°	32.8	0.7
90°-150°	32.8	0.7
90°-180°	33.0	0.7
0°-180°	4978.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1814	1814	1814	1814	1814	
5°	1821	1800	1807	1804	1802	173
15°	1737	1720	1736	1734	1736	489
25°	1570	1557	1587	1585	1590	723
35°	1345	1340	1378	1385	1391	841
45°	1086	1091	1125	1141	1154	838
55°	817	828	858	880	892	731
65°	552	560	590	613	624	545
75°	281	294	329	362	371	299
85°	65	85	131	169	182	73
90°	2	27	65	98	111	4
95°	0	2	24	47	57	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



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1814.5	1814.5	1814.5	1814.5	1814.5
2.5°	1830.3	1809.8	1814.5	1811.4	1801.9
5°	1820.8	1800.3	1806.6	1803.5	1801.9
7.5°	1809.8	1789.2	1795.6	1792.4	1794.0
10°	1790.8	1770.3	1779.7	1776.6	1776.6
12.5°	1767.1	1749.7	1759.2	1756.0	1759.2
15°	1737.1	1719.7	1735.5	1733.9	1735.5
17.5°	1700.7	1684.9	1707.0	1703.9	1705.5
20°	1661.2	1645.4	1672.3	1665.9	1672.3
22.5°	1616.9	1604.3	1631.2	1626.4	1632.8
25°	1569.5	1556.9	1586.9	1585.3	1590.1
27.5°	1520.5	1509.5	1539.5	1542.7	1544.2
30°	1463.6	1455.7	1487.3	1492.1	1496.8
32.5°	1403.6	1398.8	1432.0	1439.9	1444.7
35°	1345.1	1340.3	1378.3	1384.6	1390.9
37.5°	1283.4	1280.3	1319.8	1326.1	1335.6
40°	1217.1	1218.6	1255.0	1266.1	1277.1
42.5°	1152.3	1155.4	1188.6	1204.4	1215.5
45°	1085.9	1090.6	1125.4	1141.2	1153.8
47.5°	1021.1	1025.8	1060.6	1078.0	1090.6
50°	949.9	961.0	995.8	1011.6	1025.8
52.5°	883.6	894.6	926.2	946.8	959.4
55°	817.2	828.2	858.3	880.4	891.5
57.5°	749.2	765.0	791.9	814.0	825.1
60°	686.0	695.5	725.5	747.6	757.1
62.5°	618.0	627.5	655.9	682.8	689.1
65°	551.6	559.5	589.6	613.3	624.3
67.5°	483.7	493.1	523.2	548.5	559.5
70°	415.7	425.2	458.4	486.8	496.3
72.5°	346.1	357.2	390.4	423.6	434.7
75°	281.3	294.0	328.8	362.0	371.4
77.5°	218.1	233.9	271.9	306.6	319.3
80°	159.6	178.6	219.7	257.6	268.7
82.5°	109.1	129.6	172.3	211.8	226.0
85°	64.8	85.4	131.2	169.1	181.8
87.5°	28.5	50.6	94.8	131.2	142.3
90°	1.6	26.9	64.8	98.0	110.6
92.5°	0.0	11.1	41.1	69.5	82.2
95°	0.0	1.6	23.7	47.4	56.9
97.5°	0.0	0.0	11.1	28.5	36.4
100°	0.0	0.0	1.6	14.2	20.5
102.5°	1.6	0.0	0.0	3.2	7.9
105°	1.6	0.0	0.0	0.0	1.6
107.5°	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0



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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)