

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: P231393

Luminaire Tested: **HGL-S-FR-40L835-UNV-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P231393
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-40L835-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: 3978.5 lumens
Efficiency: N/A
Efficacy: 134.4 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

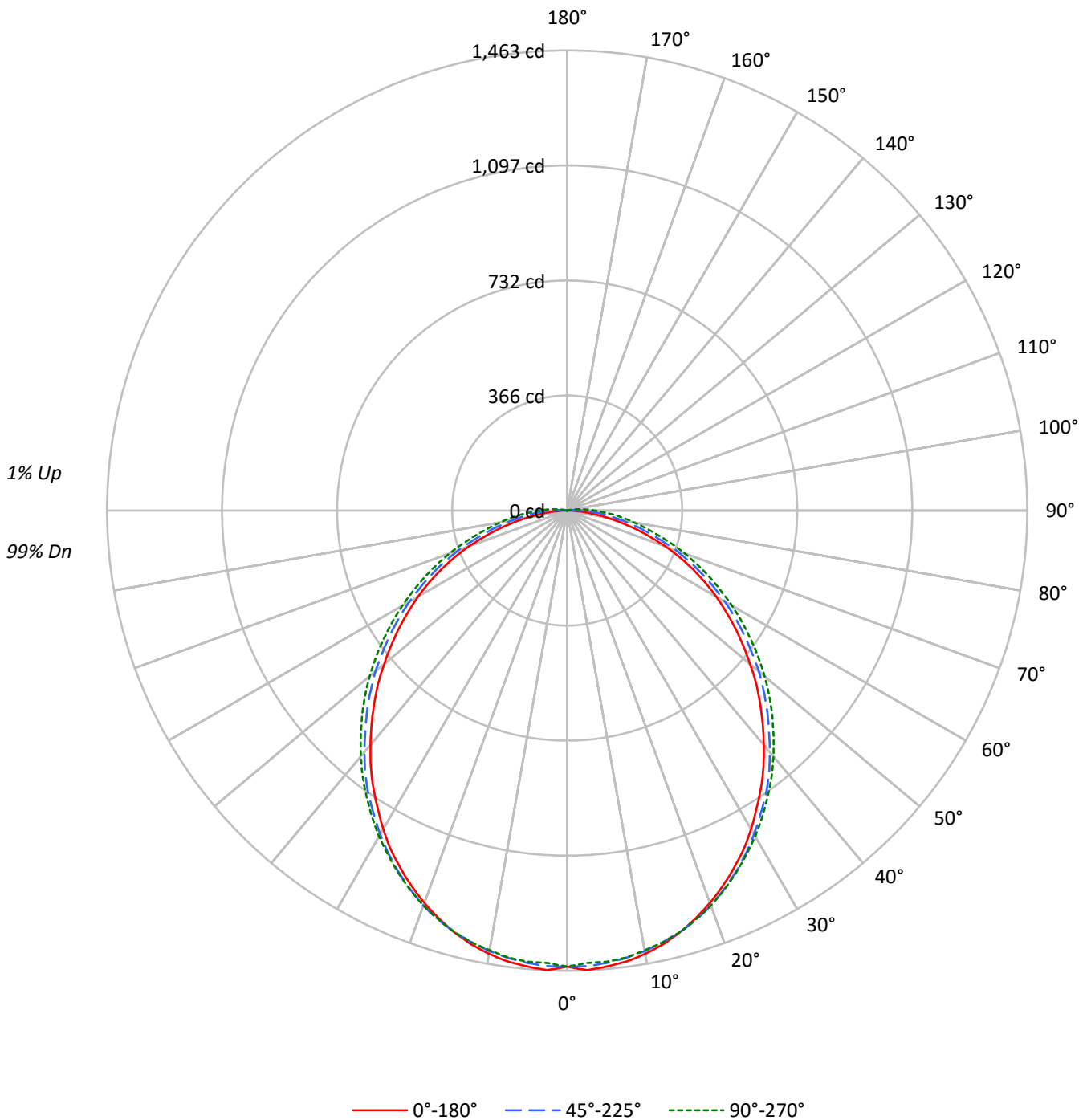
Input Watts (W): 29.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P231393

CATALOG NUMBER: HGL-S-FR-40L835-UNV-4

Luminous Intensity Polar Plot





TEST NUMBER: P231393

CATALOG NUMBER: HGL-S-FR-40L835-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°	17025	17025	17025
5°	17147	16968	16907
10°	17055	16861	16797
15°	16863	16713	16664
20°	16572	16503	16437
25°	16231	16184	16134
30°	15836	15817	15819
35°	15380	15436	15461
40°	14876	14962	15090
45°	14373	14462	14671
50°	13826	13992	14234
55°	13321	13415	13727
60°	12819	12886	13210
65°	12182	12234	12676
70°	11327	11542	12159
75°	10105	10625	11580
80°	8508	10020	11638
85°	6785	10285	13053



TEST NUMBER: P231393

CATALOG NUMBER: HGL-S-FR-40L835-UNV-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.0	3.4
10°-20°	389.9	9.8
20°-30°	580.6	14.6
30°-40°	683.3	17.2
40°-50°	690.2	17.3
50°-60°	611.6	15.4
60°-70°	465.4	11.7
70°-80°	279.4	7.0
80°-90°	114.8	2.9
90°-100°	25.0	0.6
100°-110°	1.2	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°	1107.5	27.8
0°-40°	1790.9	45.0
0°-60°	3092.7	77.7
0°-90°	3952.3	99.3
90°-120°	26.2	0.7
90°-150°	26.2	0.7
90°-180°	26.0	0.7
0°-180°	3978.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1450	1450	1450	1450	1450	
5°	1455	1439	1444	1441	1440	138
15°	1388	1374	1387	1386	1387	391
25°	1254	1244	1268	1267	1271	578
35°	1075	1071	1101	1106	1112	672
45°	868	872	899	912	922	670
55°	653	662	686	704	712	584
65°	441	447	471	490	499	436
75°	225	235	263	289	297	239
85°	52	68	105	135	145	58
90°	1	22	52	78	88	3
95°	0	1	19	38	46	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: P231393

CATALOG NUMBER: HGL-S-FR-40L835-UNV-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1449.9	1449.9	1449.9	1449.9	1449.9
2.5°	1462.6	1446.2	1449.9	1447.4	1439.8
5°	1455.0	1438.6	1443.6	1441.1	1439.8
7.5°	1446.2	1429.7	1434.8	1432.3	1433.5
10°	1431.0	1414.6	1422.2	1419.6	1419.6
12.5°	1412.1	1398.2	1405.7	1403.2	1405.7
15°	1388.1	1374.2	1386.8	1385.5	1386.8
17.5°	1359.0	1346.4	1364.1	1361.5	1362.8
20°	1327.4	1314.8	1336.3	1331.2	1336.3
22.5°	1292.1	1282.0	1303.4	1299.6	1304.7
25°	1254.2	1244.1	1268.1	1266.8	1270.6
27.5°	1215.0	1206.2	1230.2	1232.7	1234.0
30°	1169.6	1163.2	1188.5	1192.3	1196.1
32.5°	1121.6	1117.8	1144.3	1150.6	1154.4
35°	1074.8	1071.0	1101.4	1106.4	1111.5
37.5°	1025.6	1023.0	1054.6	1059.7	1067.3
40°	972.5	973.8	1002.8	1011.7	1020.5
42.5°	920.7	923.3	949.8	962.4	971.3
45°	867.7	871.5	899.3	911.9	922.0
47.5°	815.9	819.7	847.5	861.4	871.5
50°	759.1	767.9	795.7	808.3	819.7
52.5°	706.0	714.9	740.1	756.5	766.7
55°	653.0	661.8	685.8	703.5	712.3
57.5°	598.7	611.3	632.8	650.5	659.3
60°	548.2	555.7	579.7	597.4	605.0
62.5°	493.8	501.4	524.2	545.6	550.7
65°	440.8	447.1	471.1	490.1	498.9
67.5°	386.5	394.1	418.1	438.3	447.1
70°	332.2	339.8	366.3	389.0	396.6
72.5°	276.6	285.4	312.0	338.5	347.3
75°	224.8	234.9	262.7	289.2	296.8
77.5°	174.3	186.9	217.2	245.0	255.1
80°	127.6	142.7	175.6	205.9	214.7
82.5°	87.1	103.6	137.7	169.2	180.6
85°	51.8	68.2	104.8	135.1	145.2
87.5°	22.7	40.4	75.8	104.8	113.7
90°	1.3	21.5	51.8	78.3	88.4
92.5°	0.0	8.8	32.8	55.6	65.7
95°	0.0	1.3	18.9	37.9	45.5
97.5°	0.0	0.0	8.8	22.7	29.0
100°	0.0	0.0	1.3	11.4	16.4
102.5°	1.3	0.0	0.0	2.5	6.3
105°	1.3	0.0	0.0	0.0	1.3
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: P231393

CATALOG NUMBER: HGL-S-FR-40L835-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)