

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: P231400

Luminaire Tested: **HGL-S-FR-50L840-UNV-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P231400
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-50L840-UNV-4
Description: HUGO 4 FOOT LINEAR LED LUMINAIRE WITH FROSTED LENS
Light Source: (168) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

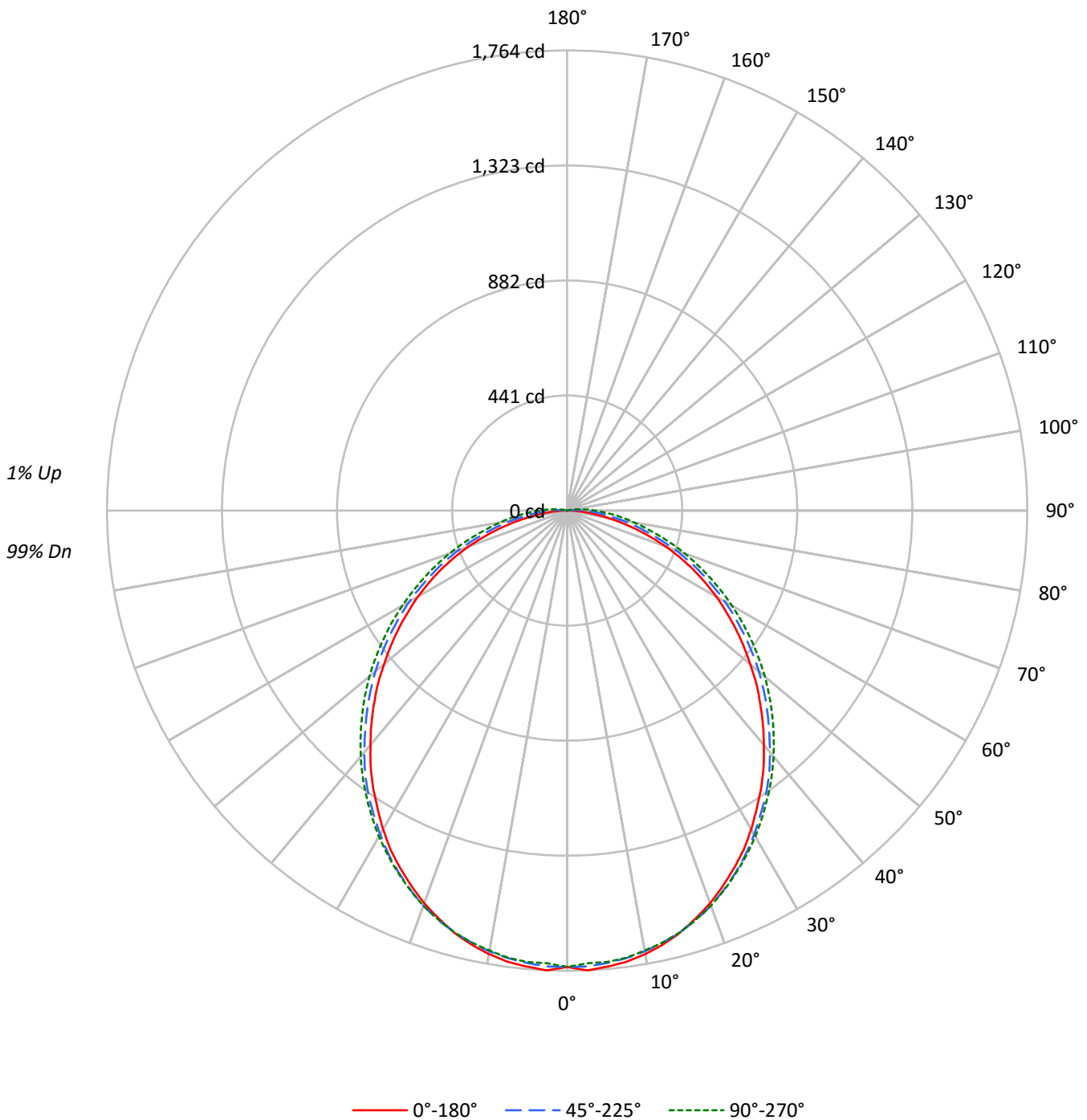
Lumens per Lamp: N/A
Luminaire Lumens: 4799.2 lumens
Efficiency: N/A
Efficacy: 124.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.33
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 4' x H: 0.01')
CIE Type: Direct

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°	20538	20538	20538
5°	20683	20468	20395
10°	20573	20338	20263
15°	20341	20161	20102
20°	19992	19906	19827
25°	19579	19521	19462
30°	19101	19080	19082
35°	18553	18619	18649
40°	17944	18049	18203
45°	17338	17445	17697
50°	16678	16877	17170
55°	16069	16183	16560
60°	15461	15545	15935
65°	14694	14758	15290
70°	13663	13920	14666
75°	12190	12817	13968
80°	10262	12086	14040
85°	8187	12414	15749



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.3	3.4
10°-20°	470.3	9.8
20°-30°	700.4	14.6
30°-40°	824.3	17.2
40°-50°	832.6	17.3
50°-60°	737.8	15.4
60°-70°	561.4	11.7
70°-80°	337.0	7.0
80°-90°	138.5	2.9
90°-100°	30.1	0.6
100°-110°	1.4	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°	1336.0	27.8
0°-40°	2160.3	45.0
0°-60°	3730.7	77.7
0°-90°	4767.6	99.3
90°-120°	31.6	0.7
90°-150°	31.6	0.7
90°-180°	32.0	0.7
0°-180°	4799.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1749	1749	1749	1749	1749	
5°	1755	1735	1741	1738	1737	167
15°	1674	1658	1673	1671	1673	472
25°	1513	1501	1530	1528	1533	697
35°	1296	1292	1328	1335	1341	810
45°	1047	1051	1085	1100	1112	808
55°	788	798	827	849	859	704
65°	532	539	568	591	602	526
75°	271	283	317	349	358	288
85°	62	82	126	163	175	70
90°	2	26	62	94	107	4
95°	0	2	23	46	55	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°	1749.0	1749.0	1749.0	1749.0	1749.0
2.5°	1764.3	1744.5	1749.0	1746.0	1736.9
5°	1755.1	1735.3	1741.4	1738.4	1736.9
7.5°	1744.5	1724.7	1730.8	1727.7	1729.2
10°	1726.2	1706.4	1715.5	1712.5	1712.5
12.5°	1703.3	1686.6	1695.7	1692.7	1695.7
15°	1674.4	1657.6	1672.9	1671.3	1672.9
17.5°	1639.3	1624.1	1645.4	1642.4	1643.9
20°	1601.3	1586.0	1611.9	1605.8	1611.9
22.5°	1558.6	1546.4	1572.3	1567.7	1573.8
25°	1512.9	1500.7	1529.6	1528.1	1532.7
27.5°	1465.7	1455.0	1483.9	1487.0	1488.5
30°	1410.8	1403.2	1433.7	1438.2	1442.8
32.5°	1352.9	1348.3	1380.3	1388.0	1392.5
35°	1296.5	1292.0	1328.5	1334.6	1340.7
37.5°	1237.1	1234.1	1272.2	1278.3	1287.4
40°	1173.1	1174.7	1209.7	1220.4	1231.0
42.5°	1110.7	1113.7	1145.7	1160.9	1171.6
45°	1046.7	1051.3	1084.8	1100.0	1112.2
47.5°	984.2	988.8	1022.3	1039.1	1051.3
50°	915.7	926.3	959.8	975.1	988.8
52.5°	851.7	862.3	892.8	912.6	924.8
55°	787.7	798.3	827.3	848.6	859.3
57.5°	722.2	737.4	763.3	784.6	795.3
60°	661.2	670.4	699.3	720.6	729.8
62.5°	595.7	604.9	632.3	658.2	664.3
65°	531.7	539.3	568.3	591.1	601.8
67.5°	466.2	475.3	504.3	528.7	539.3
70°	400.7	409.8	441.8	469.3	478.4
72.5°	333.7	344.3	376.3	408.3	419.0
75°	271.2	283.4	316.9	348.9	358.0
77.5°	210.3	225.5	262.1	295.6	307.8
80°	153.9	172.2	211.8	248.3	259.0
82.5°	105.1	124.9	166.1	204.2	217.9
85°	62.5	82.3	126.5	163.0	175.2
87.5°	27.4	48.8	91.4	126.5	137.1
90°	1.5	25.9	62.5	94.5	106.6
92.5°	0.0	10.7	39.6	67.0	79.2
95°	0.0	1.5	22.9	45.7	54.8
97.5°	0.0	0.0	10.7	27.4	35.0
100°	0.0	0.0	1.5	13.7	19.8
102.5°	1.5	0.0	0.0	3.0	7.6
105°	1.5	0.0	0.0	0.0	1.5
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)