

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: P231397

Luminaire Tested: **HGL-S-FR-80L835-UNV-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P231397
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-80L835-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: 8062.3 lumens
Efficiency: N/A
Efficacy: 113.7 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

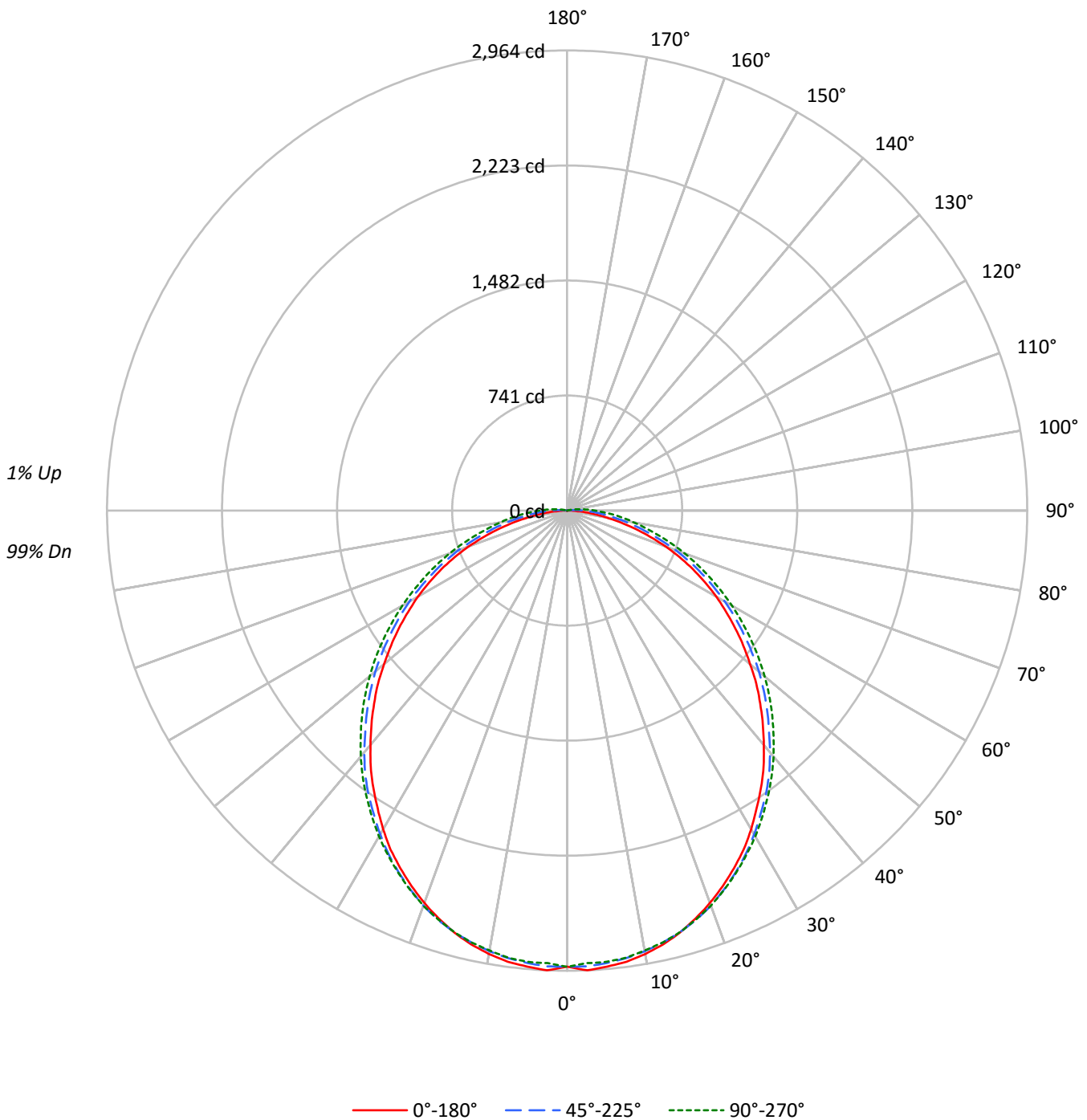
Input Watts (W): 70.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	34503	34503	34503
5°	34747	34386	34262
10°	34562	34167	34040
15°	34173	33868	33769
20°	33584	33441	33309
25°	32892	32795	32695
30°	32090	32053	32057
35°	31168	31279	31329
40°	30146	30321	30581
45°	29128	29306	29730
50°	28016	28355	28845
55°	26993	27186	27818
60°	25975	26114	26769
65°	24688	24792	25687
70°	22952	23386	24639
75°	20479	21533	23468
80°	17236	20303	23586
85°	13740	20844	26456



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.7	3.4
10°-20°	790.1	9.8
20°-30°	1176.6	14.6
30°-40°	1384.8	17.2
40°-50°	1398.7	17.3
50°-60°	1239.5	15.4
60°-70°	943.1	11.7
70°-80°	566.2	7.0
80°-90°	232.7	2.9
90°-100°	50.6	0.6
100°-110°	2.4	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°	2244.4	27.8
0°-40°	3629.2	45.0
0°-60°	6267.3	77.7
0°-90°	8009.2	99.3
90°-120°	53.1	0.7
90°-150°	53.1	0.7
90°-180°	53.0	0.7
0°-180°	8062.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2938	2938	2938	2938	2938	
5°	2948	2915	2926	2920	2918	280
15°	2813	2785	2810	2808	2810	792
25°	2542	2521	2570	2567	2575	1170
35°	2178	2170	2232	2242	2252	1361
45°	1758	1766	1822	1848	1868	1357
55°	1323	1341	1390	1426	1444	1183
65°	893	906	955	993	1011	883
75°	456	476	532	586	602	484
85°	105	138	212	274	294	118
90°	3	44	105	159	179	7
95°	0	3	38	77	92	0
105°	3	0	0	0	3	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°	2938.3	2938.3	2938.3	2938.3	2938.3
2.5°	2963.9	2930.6	2938.3	2933.2	2917.8
5°	2948.5	2915.2	2925.5	2920.4	2917.8
7.5°	2930.6	2897.3	2907.6	2902.4	2905.0
10°	2899.9	2866.6	2882.0	2876.8	2876.8
12.5°	2861.5	2833.3	2848.7	2843.6	2848.7
15°	2812.9	2784.7	2810.3	2807.7	2810.3
17.5°	2754.0	2728.4	2764.2	2759.1	2761.7
20°	2690.0	2664.4	2707.9	2697.7	2707.9
22.5°	2618.3	2597.9	2641.4	2633.7	2643.9
25°	2541.6	2521.1	2569.7	2567.1	2574.8
27.5°	2462.2	2444.3	2492.9	2498.0	2500.6
30°	2370.1	2357.3	2408.5	2416.1	2423.8
32.5°	2272.8	2265.1	2318.9	2331.7	2339.4
35°	2178.1	2170.4	2231.9	2242.1	2252.3
37.5°	2078.3	2073.2	2137.2	2147.4	2162.8
40°	1970.8	1973.4	2032.2	2050.1	2068.1
42.5°	1865.9	1871.0	1924.7	1950.3	1968.2
45°	1758.4	1766.0	1822.3	1847.9	1868.4
47.5°	1653.4	1661.1	1717.4	1745.6	1766.0
50°	1538.2	1556.2	1612.5	1638.1	1661.1
52.5°	1430.7	1448.7	1499.8	1533.1	1553.6
55°	1323.2	1341.2	1389.8	1425.6	1443.5
57.5°	1213.2	1238.8	1282.3	1318.1	1336.0
60°	1110.8	1126.2	1174.8	1210.6	1226.0
62.5°	1000.8	1016.1	1062.2	1105.7	1115.9
65°	893.3	906.1	954.7	993.1	1011.0
67.5°	783.2	798.6	847.2	888.1	906.1
70°	673.1	688.5	742.2	788.3	803.7
72.5°	560.5	578.4	632.2	685.9	703.9
75°	455.6	476.1	532.4	586.1	601.5
77.5°	353.2	378.8	440.2	496.5	517.0
80°	258.5	289.2	355.8	417.2	435.1
82.5°	176.6	209.9	279.0	343.0	366.0
85°	104.9	138.2	212.4	273.9	294.3
87.5°	46.1	81.9	153.6	212.4	230.4
90°	2.6	43.5	104.9	158.7	179.2
92.5°	0.0	17.9	66.5	112.6	133.1
95°	0.0	2.6	38.4	76.8	92.1
97.5°	0.0	0.0	17.9	46.1	58.9
100°	0.0	0.0	2.6	23.0	33.3
102.5°	2.6	0.0	0.0	5.1	12.8
105°	2.6	0.0	0.0	0.0	2.6
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)