

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: P233375

Luminaire Tested: **HGL-S-FR-60L835-UNV-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233375
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-8
Description: HUGO 8 FOOT LINEAR LED LUMINAIRE WITH FROSTED LENS
Light Source: (336) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12032.0 lumens
Efficiency: N/A
Efficacy: 127.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.33
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 8' x H: 0.01')
CIE Type: Direct

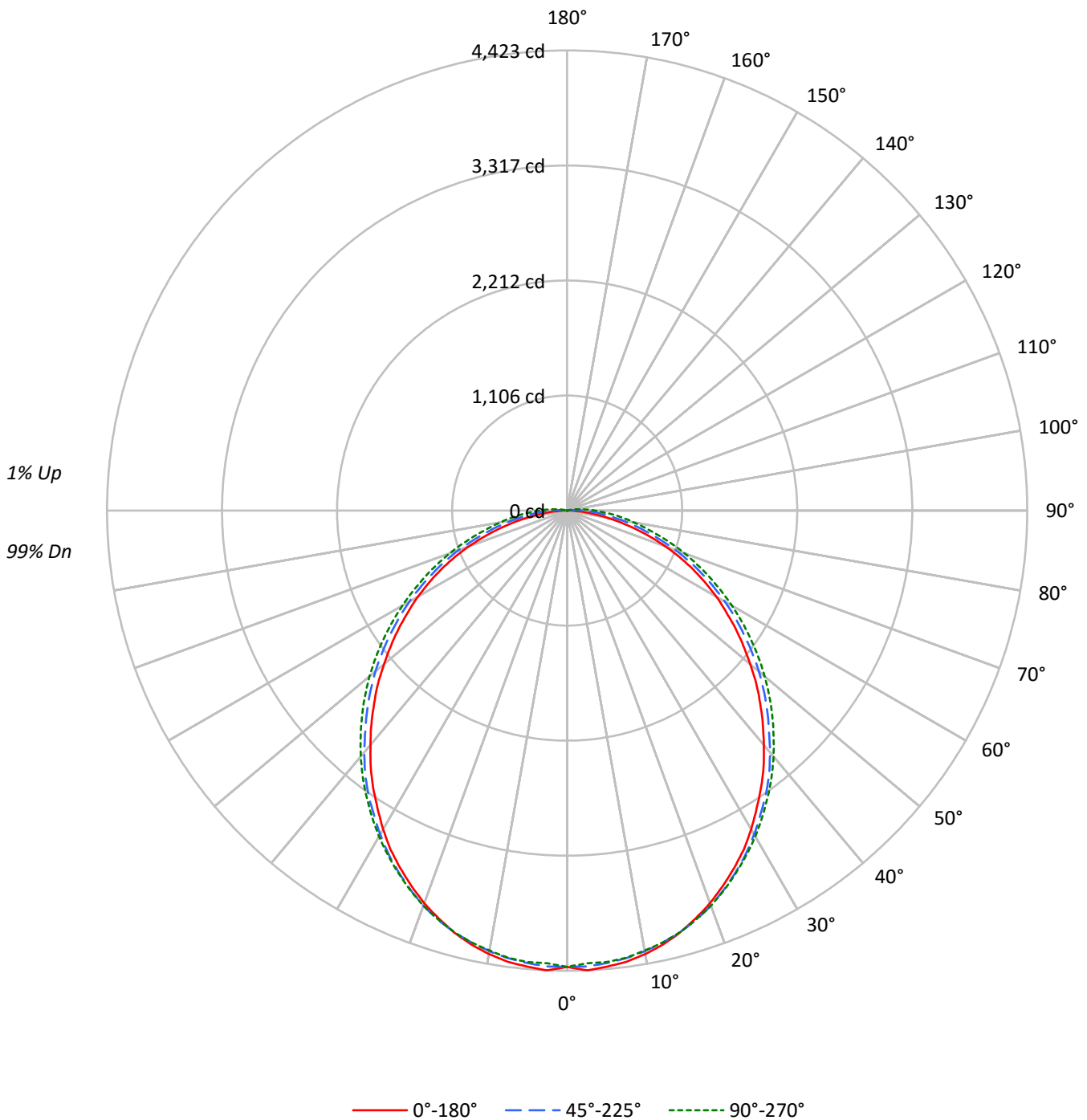
Input Watts (W): 94.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	25745	25745	25745
5°	25931	25660	25566
10°	25795	25499	25400
15°	25508	25278	25198
20°	25071	24961	24855
25°	24557	24481	24397
30°	23962	23929	23921
35°	23278	23354	23378
40°	22519	22641	22819
45°	21761	21887	22184
50°	20937	21179	21524
55°	20178	20310	20758
60°	19425	19514	19974
65°	18471	18533	19167
70°	17186	17490	18385
75°	15352	16114	17510
80°	12952	15212	17598
85°	10401	15670	19745



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	414.4	3.4
10°-20°	1179.1	9.8
20°-30°	1755.9	14.6
30°-40°	2066.6	17.2
40°-50°	2087.3	17.3
50°-60°	1849.8	15.4
60°-70°	1407.4	11.7
70°-80°	845.0	7.0
80°-90°	347.2	2.9
90°-100°	75.6	0.6
100°-110°	3.6	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°	3349.5	27.8
0°-40°	5416.1	45.0
0°-60°	9353.2	77.7
0°-90°	11952.8	99.3
90°-120°	79.2	0.7
90°-150°	79.2	0.7
90°-180°	79.0	0.7
0°-180°	12032.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4385	4385	4385	4385	4385	
5°	4400	4351	4366	4358	4354	418
15°	4198	4156	4194	4190	4194	1182
25°	3793	3762	3835	3831	3843	1747
35°	3251	3239	3331	3346	3361	2032
45°	2624	2636	2720	2758	2788	2025
55°	1975	2002	2074	2128	2154	1766
65°	1333	1352	1425	1482	1509	1318
75°	680	710	794	875	898	722
85°	157	206	317	409	439	176
90°	4	65	157	237	267	10
95°	0	4	57	115	138	0
105°	4	0	0	0	4	2
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°	4385.0	4385.0	4385.0	4385.0	4385.0
2.5°	4423.2	4373.6	4385.0	4377.4	4354.5
5°	4400.3	4350.6	4365.9	4358.3	4354.5
7.5°	4373.6	4323.9	4339.2	4331.5	4335.4
10°	4327.7	4278.1	4301.0	4293.3	4293.3
12.5°	4270.4	4228.4	4251.3	4243.7	4251.3
15°	4197.9	4155.8	4194.0	4190.2	4194.0
17.5°	4110.0	4071.8	4125.3	4117.6	4121.5
20°	4014.5	3976.3	4041.2	4026.0	4041.2
22.5°	3907.6	3877.0	3941.9	3930.5	3945.8
25°	3793.0	3762.4	3835.0	3831.2	3842.6
27.5°	3674.6	3647.8	3720.4	3728.0	3731.9
30°	3537.0	3517.9	3594.3	3605.8	3617.3
32.5°	3391.9	3380.4	3460.7	3479.8	3491.2
35°	3250.6	3239.1	3330.8	3346.1	3361.3
37.5°	3101.6	3094.0	3189.5	3204.7	3227.7
40°	2941.2	2945.0	3032.8	3059.6	3086.3
42.5°	2784.6	2792.2	2872.4	2910.6	2937.4
45°	2624.1	2635.6	2719.6	2757.8	2788.4
47.5°	2467.5	2479.0	2563.0	2605.0	2635.6
50°	2295.6	2322.4	2406.4	2444.6	2479.0
52.5°	2135.2	2162.0	2238.3	2288.0	2318.6
55°	1974.8	2001.5	2074.1	2127.6	2154.3
57.5°	1810.5	1848.7	1913.7	1967.1	1993.9
60°	1657.8	1680.7	1753.2	1806.7	1829.6
62.5°	1493.5	1516.4	1585.2	1650.1	1665.4
65°	1333.1	1352.2	1424.8	1482.0	1508.8
67.5°	1168.8	1191.7	1264.3	1325.4	1352.2
70°	1004.6	1027.5	1107.7	1176.5	1199.4
72.5°	836.5	863.3	943.5	1023.7	1050.4
75°	679.9	710.5	794.5	874.7	897.6
77.5°	527.1	565.3	657.0	741.0	771.6
80°	385.8	431.6	530.9	622.6	649.3
82.5°	263.6	313.2	416.3	511.8	546.2
85°	156.6	206.3	317.0	408.7	439.3
87.5°	68.8	122.2	229.2	317.0	343.8
90°	3.8	64.9	156.6	236.8	267.4
92.5°	0.0	26.7	99.3	168.1	198.6
95°	0.0	3.8	57.3	114.6	137.5
97.5°	0.0	0.0	26.7	68.8	87.9
100°	0.0	0.0	3.8	34.4	49.7
102.5°	3.8	0.0	0.0	7.6	19.1
105°	3.8	0.0	0.0	0.0	3.8
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)