

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: P233364

Luminaire Tested: **HGL-S-FR-40L835-UNV-12**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233364
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-12
Description: HUGO 12 FOOT LINEAR LED LUMINAIRE WITH FROSTED LENS
Light Source: (504) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11935.5 lumens
Efficiency: N/A
Efficacy: 139.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.33
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 12' x H: 0.01')
CIE Type: Direct

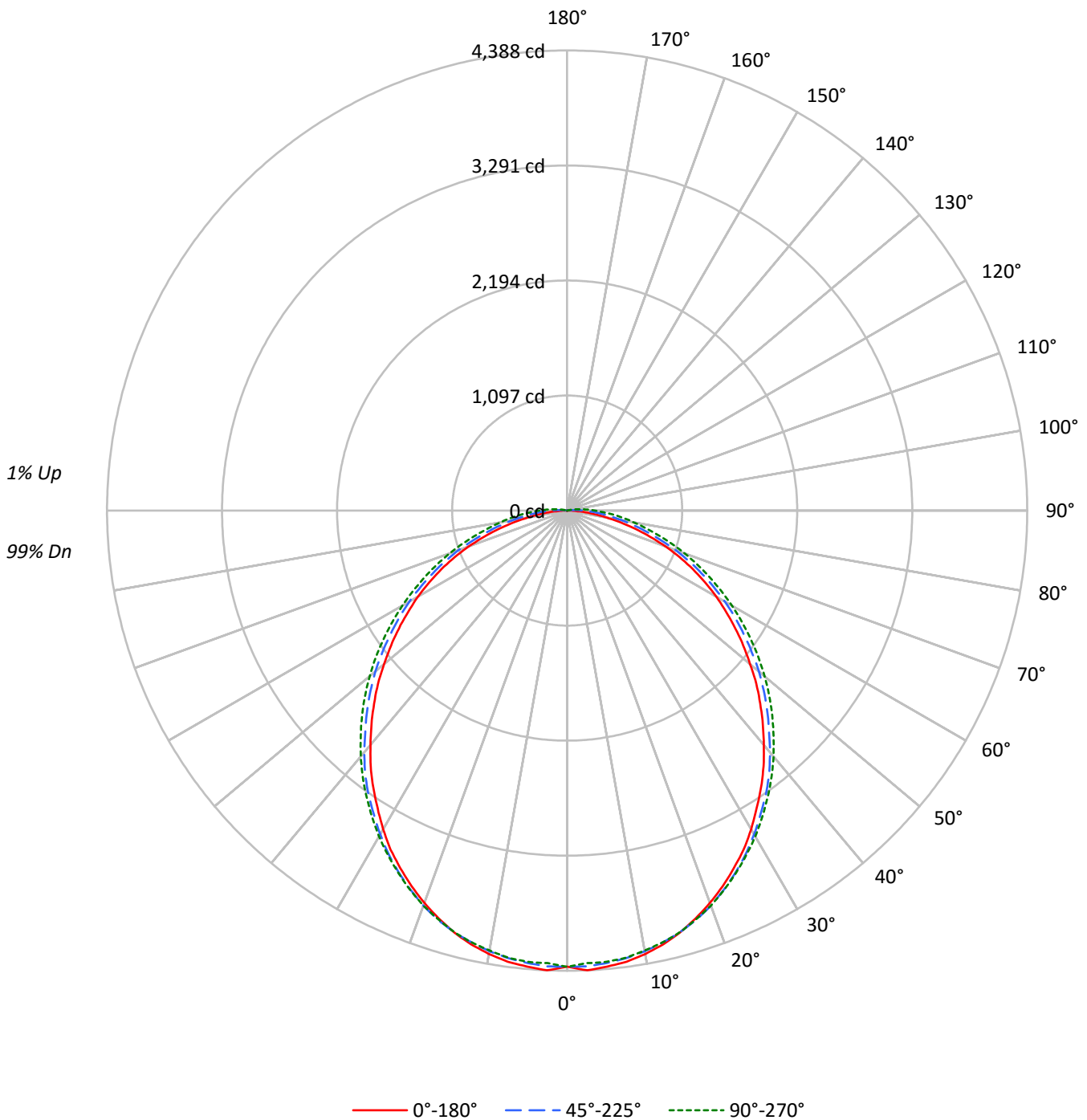
Input Watts (W): 85.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	17026	17026	17026
5°	17149	16970	16907
10°	17060	16864	16798
15°	16870	16718	16664
20°	16583	16509	16437
25°	16243	16192	16134
30°	15851	15828	15819
35°	15399	15448	15460
40°	14897	14977	15091
45°	14397	14478	14671
50°	13853	14011	14234
55°	13352	13437	13728
60°	12855	12912	13210
65°	12226	12263	12676
70°	11378	11575	12159
75°	10169	10667	11580
80°	8586	10075	11638
85°	6913	10390	13056



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	411.1	3.4
10°-20°	1169.6	9.8
20°-30°	1741.9	14.6
30°-40°	2050.0	17.2
40°-50°	2070.6	17.3
50°-60°	1834.9	15.4
60°-70°	1396.2	11.7
70°-80°	838.2	7.0
80°-90°	344.4	2.9
90°-100°	75.0	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°	3322.6	27.8
0°-40°	5372.6	45.0
0°-60°	9278.2	77.7
0°-90°	11856.9	99.3
90°-120°	78.6	0.7
90°-150°	78.6	0.7
90°-180°	79.0	0.7
0°-180°	11935.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4350	4350	4350	4350	4350	
5°	4365	4316	4331	4323	4320	414
15°	4164	4122	4160	4157	4160	1173
25°	3762	3732	3804	3800	3812	1733
35°	3224	3213	3304	3319	3334	2015
45°	2603	2614	2698	2736	2766	2009
55°	1959	1986	2058	2110	2137	1752
65°	1322	1341	1413	1470	1497	1307
75°	674	705	788	868	890	716
85°	155	205	314	405	436	175
90°	4	64	155	235	265	10
95°	0	4	57	114	136	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°	4349.8	4349.8	4349.8	4349.8	4349.8
2.5°	4387.7	4338.5	4349.8	4342.3	4319.5
5°	4365.0	4315.7	4330.9	4323.3	4319.5
7.5°	4338.5	4289.2	4304.4	4296.8	4300.6
10°	4293.0	4243.7	4266.5	4258.9	4258.9
12.5°	4236.2	4194.5	4217.2	4209.6	4217.2
15°	4164.2	4122.5	4160.4	4156.6	4160.4
17.5°	4077.0	4039.1	4092.2	4084.6	4088.4
20°	3982.3	3944.4	4008.8	3993.7	4008.8
22.5°	3876.2	3845.9	3910.3	3898.9	3914.1
25°	3762.5	3732.2	3804.2	3800.4	3811.8
27.5°	3645.1	3618.6	3690.5	3698.1	3701.9
30°	3508.7	3489.7	3565.5	3576.9	3588.2
32.5°	3364.7	3353.3	3432.9	3451.8	3463.2
35°	3224.5	3213.1	3304.1	3319.2	3334.4
37.5°	3076.7	3069.1	3163.9	3179.0	3201.8
40°	2917.6	2921.4	3008.5	3035.0	3061.6
42.5°	2762.2	2769.8	2849.4	2887.3	2913.8
45°	2603.1	2614.5	2697.8	2735.7	2766.0
47.5°	2447.7	2459.1	2542.5	2584.1	2614.5
50°	2277.2	2303.7	2387.1	2425.0	2459.1
52.5°	2118.1	2144.6	2220.4	2269.6	2300.0
55°	1958.9	1985.5	2057.5	2110.5	2137.0
57.5°	1796.0	1833.9	1898.3	1951.4	1977.9
60°	1644.5	1667.2	1739.2	1792.2	1815.0
62.5°	1481.5	1504.3	1572.5	1636.9	1652.0
65°	1322.4	1341.3	1413.3	1470.2	1496.7
67.5°	1159.5	1182.2	1254.2	1314.8	1341.3
70°	996.5	1019.3	1098.8	1167.0	1189.8
72.5°	829.8	856.3	935.9	1015.5	1042.0
75°	674.5	704.8	788.1	867.7	890.4
77.5°	522.9	560.8	651.7	735.1	765.4
80°	382.7	428.2	526.7	617.6	644.1
82.5°	261.4	310.7	413.0	507.7	541.8
85°	155.4	204.6	314.5	405.4	435.7
87.5°	68.2	121.2	227.3	314.5	341.0
90°	3.8	64.4	155.4	234.9	265.2
92.5°	0.0	26.5	98.5	166.7	197.0
95°	0.0	3.8	56.8	113.7	136.4
97.5°	0.0	0.0	26.5	68.2	87.1
100°	0.0	0.0	3.8	34.1	49.3
102.5°	3.8	0.0	0.0	7.6	18.9
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)