

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: P233376

Luminaire Tested: **HGL-S-FR-60L835-UNV-12**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233376
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-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: 18048.1 lumens
Efficiency: N/A
Efficacy: 127.1 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

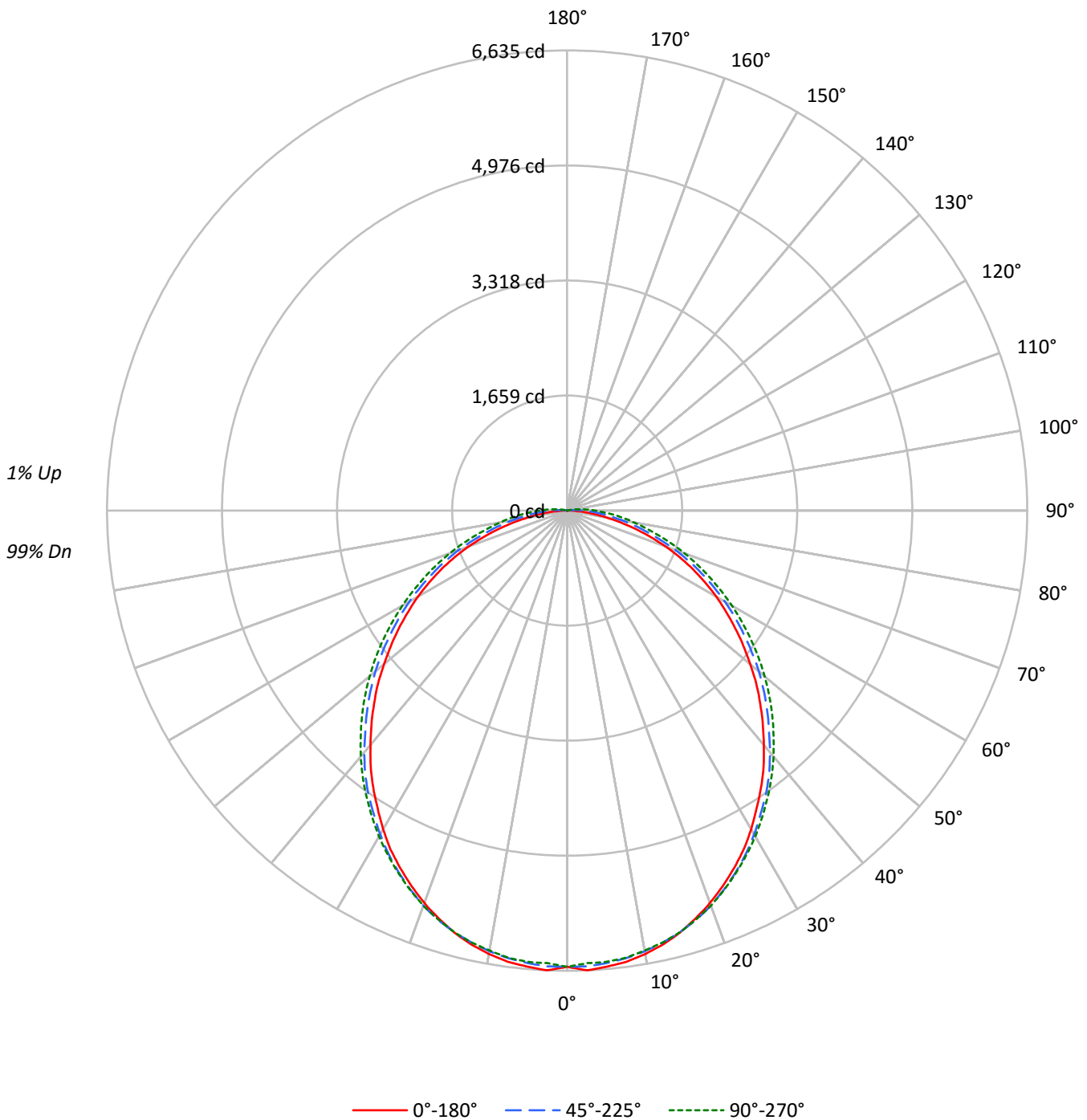
Input Watts (W): 142
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P233376

CATALOG NUMBER: HGL-S-FR-60L835-UNV-12

Luminous Intensity Polar Plot





TEST NUMBER: P233376

CATALOG NUMBER: HGL-S-FR-60L835-UNV-12

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	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°	25932	25661	25566
10°	25797	25500	25401
15°	25510	25280	25198
20°	25075	24964	24855
25°	24562	24485	24397
30°	23968	23933	23921
35°	23285	23359	23378
40°	22527	22647	22819
45°	21770	21893	22184
50°	20948	21186	21524
55°	20190	20319	20758
60°	19438	19524	19975
65°	18487	18543	19167
70°	17206	17503	18385
75°	15376	16129	17510
80°	12983	15235	17599
85°	10450	15712	19744



TEST NUMBER: P233376

CATALOG NUMBER: HGL-S-FR-60L835-UNV-12

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	621.7	3.4
10°-20°	1768.6	9.8
20°-30°	2633.9	14.6
30°-40°	3099.9	17.2
40°-50°	3131.0	17.3
50°-60°	2774.7	15.4
60°-70°	2111.2	11.7
70°-80°	1267.4	7.0
80°-90°	520.8	2.9
90°-100°	113.4	0.6
100°-110°	5.5	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°	5024.2	27.8
0°-40°	8124.1	45.0
0°-60°	14029.8	77.7
0°-90°	17929.3	99.3
90°-120°	118.8	0.7
90°-150°	118.8	0.7
90°-180°	119.0	0.7
0°-180°	18048.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6578	6578	6578	6578	6578	
5°	6600	6526	6549	6537	6532	627
15°	6297	6234	6291	6285	6291	1774
25°	5690	5644	5752	5747	5764	2620
35°	4876	4859	4996	5019	5042	3048
45°	3936	3953	4079	4137	4183	3038
55°	2962	3002	3111	3191	3232	2649
65°	2000	2028	2137	2223	2263	1977
75°	1020	1066	1192	1312	1346	1083
85°	235	309	476	613	659	264
90°	6	97	235	355	401	16
95°	0	6	86	172	206	0
105°	6	0	0	0	6	3
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: P233376

CATALOG NUMBER: HGL-S-FR-60L835-UNV-12

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6577.5	6577.5	6577.5	6577.5	6577.5
2.5°	6634.8	6560.3	6577.5	6566.1	6531.7
5°	6600.5	6526.0	6548.9	6537.4	6531.7
7.5°	6560.3	6485.9	6508.8	6497.3	6503.0
10°	6491.6	6417.1	6451.5	6440.0	6440.0
12.5°	6405.6	6342.6	6377.0	6365.5	6377.0
15°	6296.8	6233.8	6291.1	6285.3	6291.1
17.5°	6165.0	6107.7	6187.9	6176.5	6182.2
20°	6021.8	5964.5	6061.9	6039.0	6061.9
22.5°	5861.3	5815.5	5912.9	5895.7	5918.6
25°	5689.5	5643.6	5752.5	5746.7	5763.9
27.5°	5511.8	5471.7	5580.6	5592.0	5597.8
30°	5305.6	5276.9	5391.5	5408.7	5425.9
32.5°	5087.8	5070.7	5191.0	5219.6	5236.8
35°	4875.9	4858.7	4996.2	5019.1	5042.0
37.5°	4652.4	4640.9	4784.2	4807.1	4841.5
40°	4411.8	4417.5	4549.3	4589.4	4629.5
42.5°	4176.8	4188.3	4308.6	4365.9	4406.0
45°	3936.2	3953.4	4079.4	4136.7	4182.6
47.5°	3701.3	3718.5	3844.5	3907.6	3953.4
50°	3443.5	3483.6	3609.6	3666.9	3718.5
52.5°	3202.8	3242.9	3357.5	3432.0	3477.8
55°	2962.2	3002.3	3111.2	3191.4	3231.5
57.5°	2715.8	2773.1	2870.5	2950.7	2990.8
60°	2486.6	2521.0	2629.9	2710.1	2744.5
62.5°	2240.3	2274.6	2377.8	2475.2	2498.1
65°	1999.6	2028.3	2137.1	2223.1	2263.2
67.5°	1753.2	1787.6	1896.5	1988.2	2028.3
70°	1506.9	1541.3	1661.6	1764.7	1799.1
72.5°	1254.8	1294.9	1415.2	1535.5	1575.6
75°	1019.9	1065.7	1191.7	1312.1	1346.4
77.5°	790.7	848.0	985.5	1111.5	1157.4
80°	578.7	647.4	796.4	933.9	974.0
82.5°	395.3	469.8	624.5	767.8	819.3
85°	234.9	309.4	475.6	613.1	658.9
87.5°	103.1	183.3	343.8	475.6	515.7
90°	5.7	97.4	234.9	355.2	401.1
92.5°	0.0	40.1	149.0	252.1	297.9
95°	0.0	5.7	85.9	171.9	206.3
97.5°	0.0	0.0	40.1	103.1	131.8
100°	0.0	0.0	5.7	51.6	74.5
102.5°	5.7	0.0	0.0	11.5	28.6
105°	5.7	0.0	0.0	0.0	5.7
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: P233376

CATALOG NUMBER: HGL-S-FR-60L835-UNV-12

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)