

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: P233378

Luminaire Tested: **HGL-S-FR-60L840-UNV-12**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233378
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-60L840-UNV-12
Description: HUGO 12 FOOT LINEAR LED LUMINAIRE WITH FROSTED LENS
Light Source: (504) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17396.8 lumens
Efficiency: N/A
Efficacy: 122.5 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

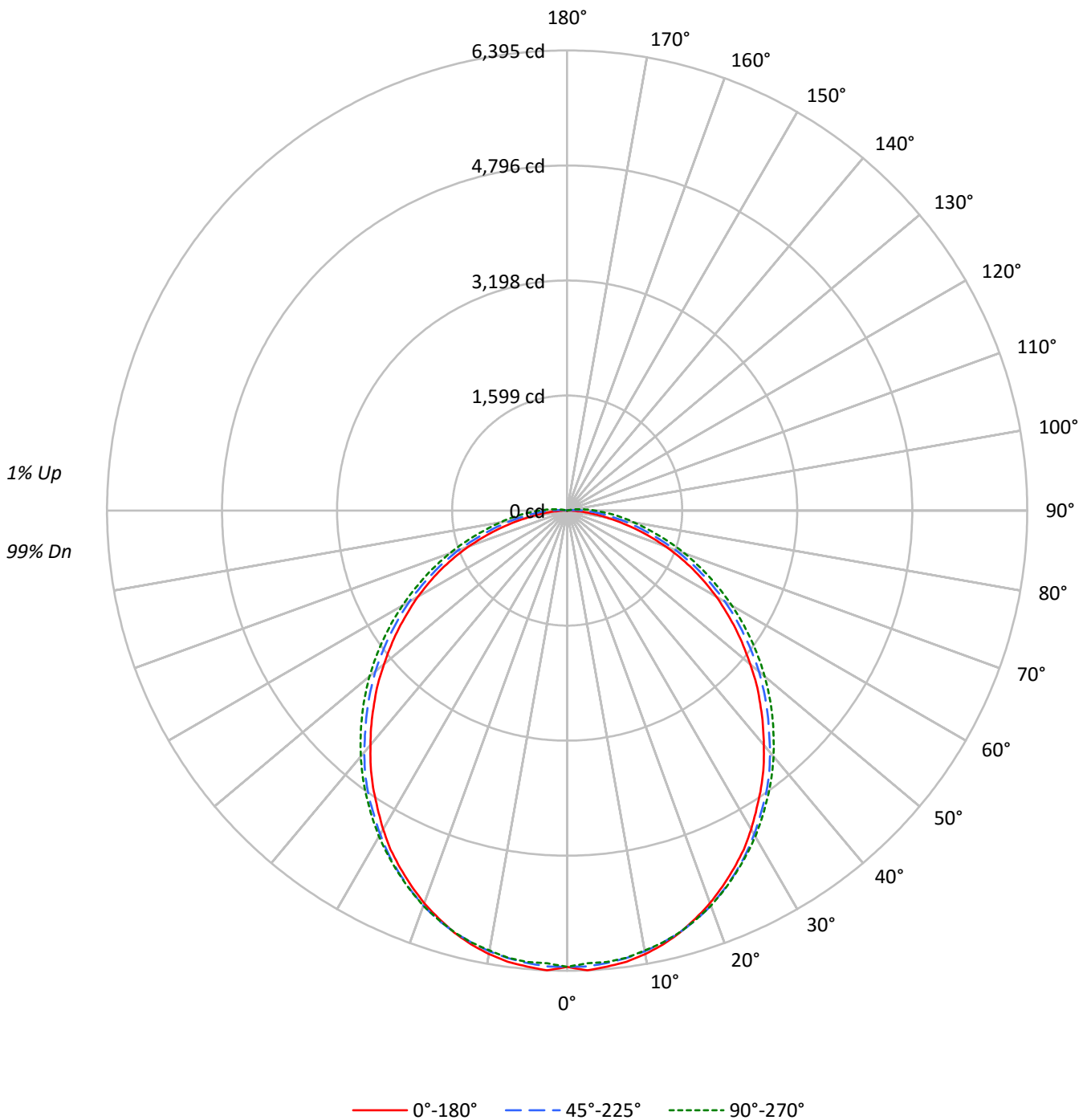
Input Watts (W): 142
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P233378

CATALOG NUMBER: HGL-S-FR-60L840-UNV-12

Luminous Intensity Polar Plot





TEST NUMBER: P233378

CATALOG NUMBER: HGL-S-FR-60L840-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	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°	24816	24816	24816
5°	24996	24735	24644
10°	24866	24580	24484
15°	24590	24367	24289
20°	24170	24063	23958
25°	23675	23601	23516
30°	23103	23070	23057
35°	22444	22516	22534
40°	21714	21830	21996
45°	20985	21103	21384
50°	20192	20422	20747
55°	19462	19585	20009
60°	18737	18820	19254
65°	17820	17874	18475
70°	16585	16871	17722
75°	14821	15547	16879
80°	12514	14686	16965
85°	10072	15144	19030



TEST NUMBER: P233378

CATALOG NUMBER: HGL-S-FR-60L840-UNV-12

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	599.2	3.4
10°-20°	1704.8	9.8
20°-30°	2538.9	14.6
30°-40°	2988.1	17.2
40°-50°	3018.0	17.3
50°-60°	2674.5	15.4
60°-70°	2035.0	11.7
70°-80°	1221.7	7.0
80°-90°	502.0	2.9
90°-100°	109.3	0.6
100°-110°	5.3	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°	4842.9	27.8
0°-40°	7831.0	45.0
0°-60°	13523.5	77.7
0°-90°	17282.3	99.3
90°-120°	114.5	0.7
90°-150°	114.5	0.7
90°-180°	115.0	0.7
0°-180°	17396.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6340	6340	6340	6340	6340	
5°	6362	6290	6313	6302	6296	604
15°	6070	6009	6064	6058	6064	1710
25°	5484	5440	5545	5539	5556	2526
35°	4700	4683	4816	4838	4860	2938
45°	3794	3811	3932	3988	4032	2928
55°	2855	2894	2999	3076	3115	2553
65°	1928	1955	2060	2143	2182	1905
75°	983	1027	1149	1265	1298	1044
85°	226	298	458	591	635	255
90°	6	94	226	342	387	15
95°	0	6	83	166	199	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: P233378

CATALOG NUMBER: HGL-S-FR-60L840-UNV-12

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6340.2	6340.2	6340.2	6340.2	6340.2
2.5°	6395.4	6323.6	6340.2	6329.1	6296.0
5°	6362.3	6290.5	6312.6	6301.5	6296.0
7.5°	6323.6	6251.8	6273.9	6262.9	6268.4
10°	6257.3	6185.5	6218.7	6207.6	6207.6
12.5°	6174.5	6113.7	6146.9	6135.8	6146.9
15°	6069.6	6008.8	6064.0	6058.5	6064.0
17.5°	5942.5	5887.3	5964.6	5953.6	5959.1
20°	5804.5	5749.2	5843.1	5821.0	5843.1
22.5°	5649.8	5605.6	5699.5	5683.0	5705.1
25°	5484.1	5440.0	5544.9	5539.4	5555.9
27.5°	5312.9	5274.3	5379.2	5390.3	5395.8
30°	5114.1	5086.5	5197.0	5213.5	5230.1
32.5°	4904.2	4887.7	5003.7	5031.3	5047.8
35°	4699.9	4683.3	4815.9	4838.0	4860.1
37.5°	4484.5	4473.5	4611.5	4633.6	4666.8
40°	4252.6	4258.1	4385.1	4423.8	4462.4
42.5°	4026.1	4037.2	4153.1	4208.4	4247.0
45°	3794.2	3810.7	3932.2	3987.5	4031.6
47.5°	3567.7	3584.3	3705.8	3766.6	3810.7
50°	3319.2	3357.9	3479.4	3534.6	3584.3
52.5°	3087.2	3125.9	3236.4	3308.2	3352.3
55°	2855.3	2893.9	2998.9	3076.2	3114.9
57.5°	2617.8	2673.0	2766.9	2844.2	2882.9
60°	2396.9	2430.0	2535.0	2612.3	2645.4
62.5°	2159.4	2192.6	2292.0	2385.9	2407.9
65°	1927.5	1955.1	2060.0	2142.8	2181.5
67.5°	1690.0	1723.1	1828.0	1916.4	1955.1
70°	1452.5	1485.6	1601.6	1701.0	1734.2
72.5°	1209.5	1248.2	1364.1	1480.1	1518.8
75°	983.1	1027.2	1148.7	1264.7	1297.9
77.5°	762.1	817.4	949.9	1071.4	1115.6
80°	557.8	624.1	767.7	900.2	938.9
82.5°	381.1	452.9	602.0	740.1	789.8
85°	226.4	298.2	458.4	590.9	635.1
87.5°	99.4	176.7	331.4	458.4	497.1
90°	5.5	93.9	226.4	342.4	386.6
92.5°	0.0	38.7	143.6	243.0	287.2
95°	0.0	5.5	82.8	165.7	198.8
97.5°	0.0	0.0	38.7	99.4	127.0
100°	0.0	0.0	5.5	49.7	71.8
102.5°	5.5	0.0	0.0	11.0	27.6
105°	5.5	0.0	0.0	0.0	5.5
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: P233378

CATALOG NUMBER: HGL-S-FR-60L840-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)