

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: P233360

Luminaire Tested: **HGL-S-FR-30L840-UNV-12**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233360
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-30L840-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: 9590.7 lumens
Efficiency: N/A
Efficacy: 147.3 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

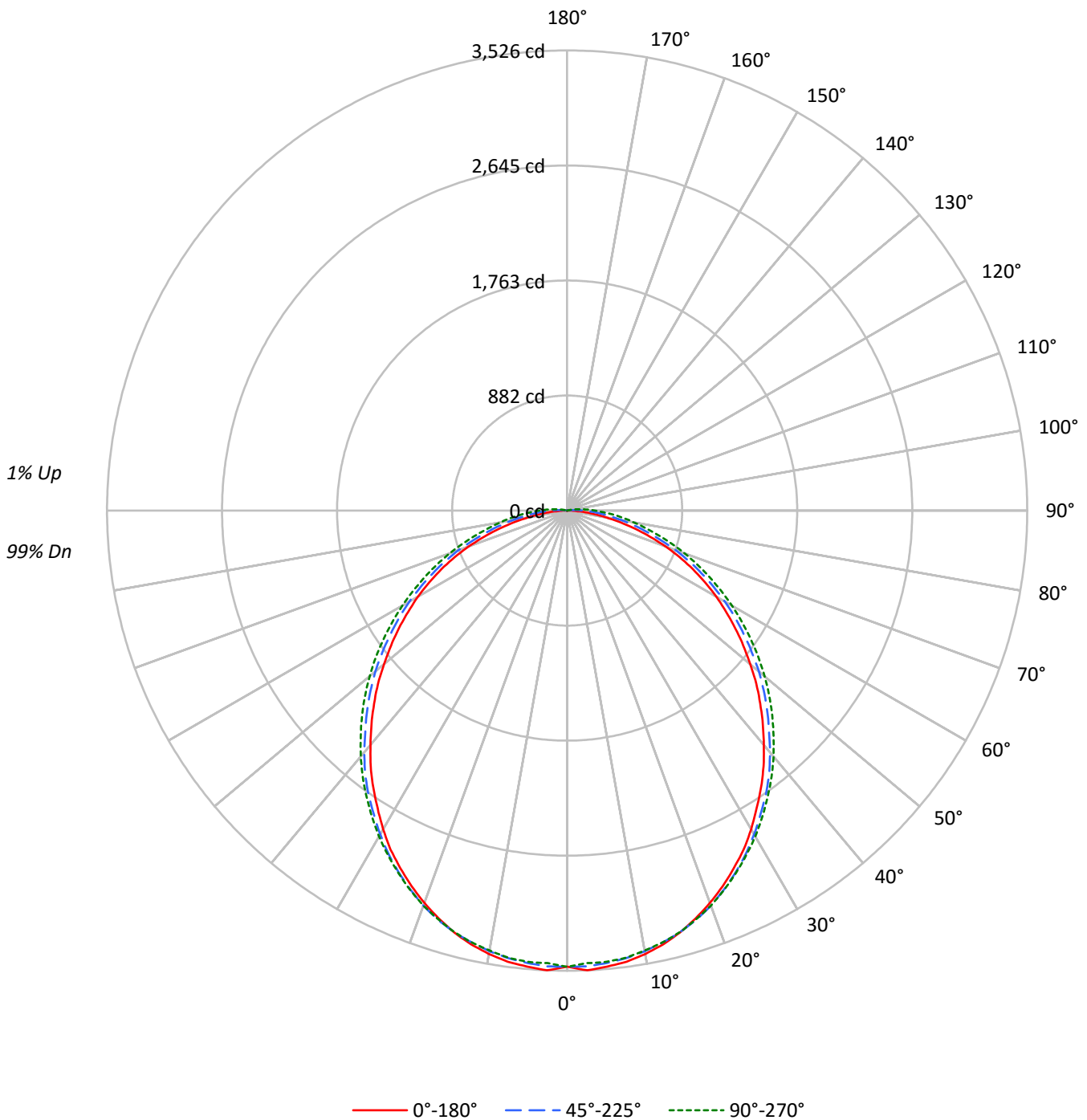
Input Watts (W): 65.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	13681	13681	13681
5°	13780	13636	13586
10°	13709	13551	13498
15°	13556	13434	13390
20°	13325	13266	13208
25°	13052	13011	12964
30°	12737	12718	12711
35°	12373	12413	12423
40°	11970	12035	12126
45°	11569	11634	11789
50°	11132	11258	11438
55°	10729	10797	11031
60°	10329	10375	10615
65°	9824	9854	10185
70°	9144	9302	9769
75°	8171	8572	9305
80°	6899	8096	9353
85°	5552	8348	10491



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	330.3	3.4
10°-20°	939.8	9.8
20°-30°	1399.7	14.6
30°-40°	1647.3	17.2
40°-50°	1663.8	17.3
50°-60°	1474.5	15.4
60°-70°	1121.9	11.7
70°-80°	673.5	7.0
80°-90°	276.8	2.9
90°-100°	60.2	0.6
100°-110°	2.9	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°	2669.9	27.8
0°-40°	4317.2	45.0
0°-60°	7455.4	77.7
0°-90°	9527.6	99.3
90°-120°	63.1	0.7
90°-150°	63.1	0.7
90°-180°	63.0	0.7
0°-180°	9590.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3495	3495	3495	3495	3495	
5°	3508	3468	3480	3474	3471	333
15°	3346	3313	3343	3340	3343	943
25°	3023	2999	3057	3054	3063	1392
35°	2591	2582	2655	2667	2679	1620
45°	2092	2101	2168	2198	2223	1614
55°	1574	1595	1653	1696	1717	1408
65°	1063	1078	1136	1181	1203	1050
75°	542	566	633	697	716	575
85°	125	164	253	326	350	140
90°	3	52	125	189	213	8
95°	0	3	46	91	110	0
105°	3	0	0	0	3	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



TEST NUMBER: P233360

CATALOG NUMBER: HGL-S-FR-30L840-UNV-12

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3495.3	3495.3	3495.3	3495.3	3495.3
2.5°	3525.7	3486.2	3495.3	3489.2	3470.9
5°	3507.5	3467.9	3480.1	3474.0	3470.9
7.5°	3486.2	3446.6	3458.8	3452.7	3455.7
10°	3449.6	3410.0	3428.3	3422.2	3422.2
12.5°	3404.0	3370.5	3388.7	3382.6	3388.7
15°	3346.1	3312.6	3343.1	3340.0	3343.1
17.5°	3276.1	3245.6	3288.3	3282.2	3285.2
20°	3200.0	3169.5	3221.3	3209.1	3221.3
22.5°	3114.7	3090.3	3142.1	3133.0	3145.2
25°	3023.4	2999.0	3056.9	3053.8	3062.9
27.5°	2929.0	2907.7	2965.5	2971.6	2974.7
30°	2819.4	2804.1	2865.0	2874.2	2883.3
32.5°	2703.7	2694.5	2758.5	2773.7	2782.8
35°	2591.0	2581.9	2655.0	2667.1	2679.3
37.5°	2472.3	2466.2	2542.3	2554.5	2572.8
40°	2344.4	2347.4	2417.5	2438.8	2460.1
42.5°	2219.6	2225.7	2289.6	2320.0	2341.4
45°	2091.7	2100.8	2167.8	2198.3	2222.6
47.5°	1966.9	1976.0	2043.0	2076.5	2100.8
50°	1829.9	1851.2	1918.1	1948.6	1976.0
52.5°	1702.0	1723.3	1784.2	1823.8	1848.1
55°	1574.1	1595.4	1653.3	1695.9	1717.2
57.5°	1443.2	1473.6	1525.4	1568.0	1589.3
60°	1321.4	1339.7	1397.5	1440.1	1458.4
62.5°	1190.5	1208.7	1263.5	1315.3	1327.5
65°	1062.6	1077.8	1135.7	1181.3	1202.6
67.5°	931.7	949.9	1007.8	1056.5	1077.8
70°	800.8	819.0	883.0	937.8	956.0
72.5°	666.8	688.1	752.0	816.0	837.3
75°	542.0	566.3	633.3	697.2	715.5
77.5°	420.2	450.6	523.7	590.7	615.0
80°	307.5	344.0	423.2	496.3	517.6
82.5°	210.1	249.7	331.9	408.0	435.4
85°	124.8	164.4	252.7	325.8	350.1
87.5°	54.8	97.4	182.7	252.7	274.0
90°	3.0	51.8	124.8	188.8	213.1
92.5°	0.0	21.3	79.2	134.0	158.3
95°	0.0	3.0	45.7	91.3	109.6
97.5°	0.0	0.0	21.3	54.8	70.0
100°	0.0	0.0	3.0	27.4	39.6
102.5°	3.0	0.0	0.0	6.1	15.2
105°	3.0	0.0	0.0	0.0	3.0
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: P233360

CATALOG NUMBER: HGL-S-FR-30L840-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)