

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: P257042

Luminaire Tested: **HGL-S-FR-60L940-UNV-12**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257042
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-60L940-UNV-12
Description: HUGO 12 FOOT LINEAR LED LUMINAIRE WITH FROSTED LENS
Light Source: (504) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13825.2 lumens
Efficiency: N/A
Efficacy: 97.4 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

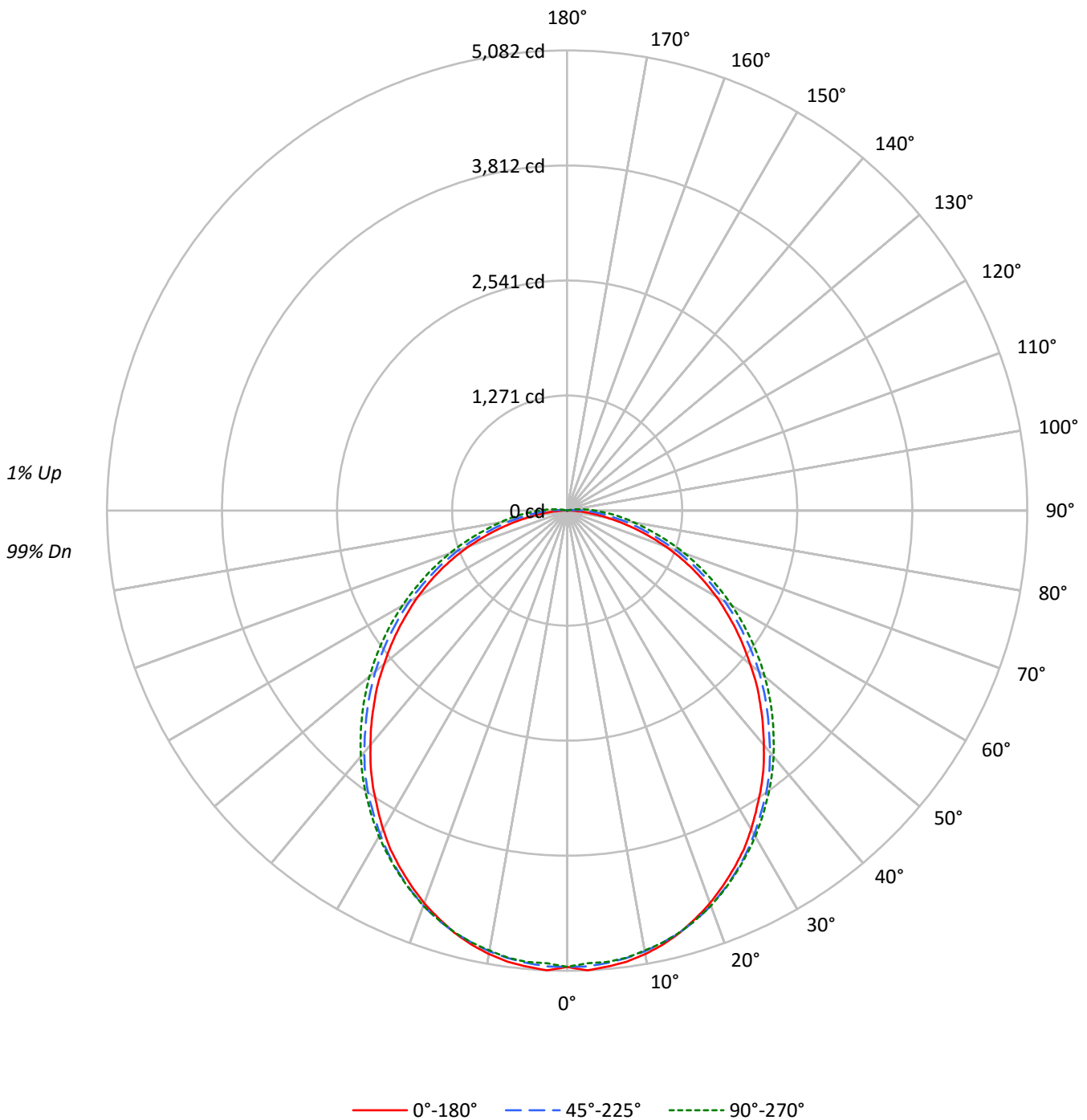
Input Watts (W): 142
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	19721	19721	19721
5°	19864	19657	19584
10°	19761	19534	19457
15°	19542	19365	19302
20°	19208	19123	19039
25°	18815	18756	18688
30°	18360	18333	18323
35°	17837	17893	17908
40°	17256	17348	17480
45°	16677	16770	16993
50°	16046	16229	16487
55°	15466	15564	15901
60°	14890	14956	15301
65°	14161	14204	14682
70°	13180	13408	14083
75°	11778	12356	13414
80°	9945	11671	13481
85°	8003	12035	15123



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	476.2	3.4
10°-20°	1354.8	9.8
20°-30°	2017.6	14.6
30°-40°	2374.6	17.2
40°-50°	2398.4	17.3
50°-60°	2125.4	15.4
60°-70°	1617.2	11.7
70°-80°	970.9	7.0
80°-90°	399.0	2.9
90°-100°	86.8	0.6
100°-110°	4.2	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°	3848.6	27.8
0°-40°	6223.2	45.0
0°-60°	10747.1	77.7
0°-90°	13734.1	99.3
90°-120°	91.0	0.7
90°-150°	91.0	0.7
90°-180°	91.0	0.7
0°-180°	13825.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5038	5038	5038	5038	5038	
5°	5056	4999	5017	5008	5003	480
15°	4824	4775	4819	4815	4819	1359
25°	4358	4323	4406	4402	4415	2007
35°	3735	3722	3827	3845	3862	2335
45°	3015	3028	3125	3169	3204	2327
55°	2269	2300	2383	2445	2475	2029
65°	1532	1554	1637	1703	1734	1514
75°	781	816	913	1005	1031	830
85°	180	237	364	470	505	202
90°	4	75	180	272	307	12
95°	0	4	66	132	158	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°	5038.5	5038.5	5038.5	5038.5	5038.5
2.5°	5082.4	5025.3	5038.5	5029.7	5003.4
5°	5056.1	4999.0	5016.6	5007.8	5003.4
7.5°	5025.3	4968.3	4985.8	4977.1	4981.5
10°	4972.7	4915.6	4942.0	4933.2	4933.2
12.5°	4906.8	4858.6	4884.9	4876.1	4884.9
15°	4823.5	4775.2	4819.1	4814.7	4819.1
17.5°	4722.5	4678.6	4740.1	4731.3	4735.7
20°	4612.8	4568.9	4643.5	4626.0	4643.5
22.5°	4489.9	4454.8	4529.4	4516.2	4533.8
25°	4358.2	4323.1	4406.5	4402.1	4415.3
27.5°	4222.2	4191.4	4274.8	4283.6	4288.0
30°	4064.2	4042.2	4130.0	4143.2	4156.3
32.5°	3897.4	3884.2	3976.4	3998.3	4011.5
35°	3735.0	3721.8	3827.2	3844.7	3862.3
37.5°	3563.8	3555.1	3664.8	3682.3	3708.7
40°	3379.5	3383.9	3484.8	3515.5	3546.3
42.5°	3199.5	3208.3	3300.5	3344.4	3375.1
45°	3015.2	3028.4	3124.9	3168.8	3203.9
47.5°	2835.3	2848.4	2945.0	2993.3	3028.4
50°	2637.8	2668.5	2765.0	2808.9	2848.4
52.5°	2453.4	2484.1	2571.9	2629.0	2664.1
55°	2269.1	2299.8	2383.2	2444.6	2475.4
57.5°	2080.4	2124.3	2198.9	2260.3	2291.0
60°	1904.8	1931.1	2014.5	2076.0	2102.3
62.5°	1716.1	1742.4	1821.4	1896.0	1913.6
65°	1531.7	1553.7	1637.1	1702.9	1733.6
67.5°	1343.0	1369.4	1452.7	1523.0	1553.7
70°	1154.3	1180.6	1272.8	1351.8	1378.1
72.5°	961.2	991.9	1084.1	1176.2	1207.0
75°	781.2	816.3	912.9	1005.1	1031.4
77.5°	605.7	649.6	754.9	851.5	886.6
80°	443.3	496.0	610.1	715.4	746.1
82.5°	302.8	359.9	478.4	588.1	627.6
85°	179.9	237.0	364.3	469.6	504.7
87.5°	79.0	140.4	263.3	364.3	395.0
90°	4.4	74.6	179.9	272.1	307.2
92.5°	0.0	30.7	114.1	193.1	228.2
95°	0.0	4.4	65.8	131.7	158.0
97.5°	0.0	0.0	30.7	79.0	100.9
100°	0.0	0.0	4.4	39.5	57.1
102.5°	4.4	0.0	0.0	8.8	21.9
105°	4.4	0.0	0.0	0.0	4.4
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)