

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: P257032

Luminaire Tested: **HGL-S-FR-60L940-UNV-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257032
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-8
Description: HUGO 8 FOOT LINEAR LED LUMINAIRE WITH FROSTED LENS
Light Source: (336) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9216.8 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.33
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 8' x H: 0.01')
CIE Type: Direct

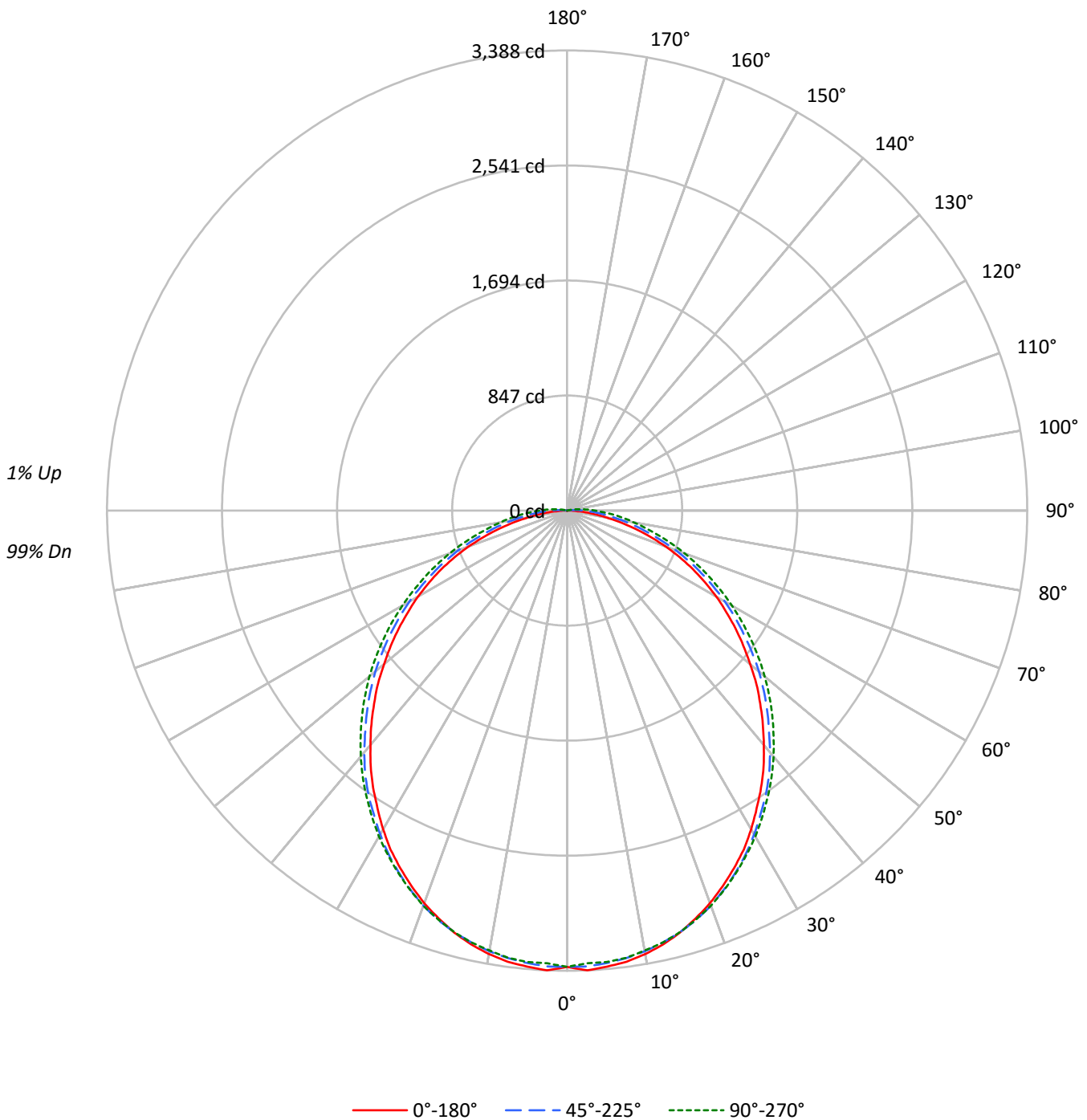
Input Watts (W): 94.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	19656	19584
10°	19760	19532	19457
15°	19539	19363	19302
20°	19205	19121	19040
25°	18811	18753	18688
30°	18355	18330	18324
35°	17831	17889	17908
40°	17250	17344	17480
45°	16669	16766	16994
50°	16038	16224	16488
55°	15457	15558	15901
60°	14880	14948	15301
65°	14149	14196	14683
70°	13164	13397	14084
75°	11759	12344	13414
80°	9921	11653	13481
85°	7970	12007	15125



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	317.5	3.4
10°-20°	903.2	9.8
20°-30°	1345.1	14.6
30°-40°	1583.1	17.2
40°-50°	1598.9	17.3
50°-60°	1417.0	15.4
60°-70°	1078.1	11.7
70°-80°	647.2	7.0
80°-90°	266.0	2.9
90°-100°	57.9	0.6
100°-110°	2.8	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°	2565.8	27.8
0°-40°	4148.8	45.0
0°-60°	7164.7	77.7
0°-90°	9156.1	99.3
90°-120°	60.7	0.7
90°-150°	60.7	0.7
90°-180°	61.0	0.7
0°-180°	9216.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3359	3359	3359	3359	3359	
5°	3371	3333	3344	3338	3336	320
15°	3216	3184	3213	3210	3213	906
25°	2906	2882	2938	2935	2944	1338
35°	2490	2481	2551	2563	2575	1556
45°	2010	2019	2083	2112	2136	1551
55°	1513	1533	1589	1630	1650	1353
65°	1021	1036	1091	1135	1156	1009
75°	521	544	609	670	688	553
85°	120	158	243	313	336	135
90°	3	50	120	181	205	8
95°	0	3	44	88	105	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



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3359.0	3359.0	3359.0	3359.0	3359.0
2.5°	3388.3	3350.2	3359.0	3353.2	3335.6
5°	3370.7	3332.7	3344.4	3338.5	3335.6
7.5°	3350.2	3312.2	3323.9	3318.0	3321.0
10°	3315.1	3277.1	3294.6	3288.8	3288.8
12.5°	3271.2	3239.0	3256.6	3250.7	3256.6
15°	3215.6	3183.5	3212.7	3209.8	3212.7
17.5°	3148.3	3119.1	3160.0	3154.2	3157.1
20°	3075.2	3045.9	3095.7	3084.0	3095.7
22.5°	2993.3	2969.9	3019.6	3010.8	3022.5
25°	2905.5	2882.1	2937.7	2934.7	2943.5
27.5°	2814.8	2794.3	2849.9	2855.7	2858.7
30°	2709.4	2694.8	2753.3	2762.1	2770.9
32.5°	2598.3	2589.5	2650.9	2665.6	2674.3
35°	2490.0	2481.2	2551.4	2563.1	2574.9
37.5°	2375.9	2370.0	2443.2	2454.9	2472.4
40°	2253.0	2255.9	2323.2	2343.7	2364.2
42.5°	2133.0	2138.9	2200.3	2229.6	2250.1
45°	2010.1	2018.9	2083.3	2112.5	2136.0
47.5°	1890.2	1899.0	1963.3	1995.5	2018.9
50°	1758.5	1779.0	1843.4	1872.6	1899.0
52.5°	1635.6	1656.1	1714.6	1752.7	1776.1
55°	1512.7	1533.2	1588.8	1629.8	1650.2
57.5°	1386.9	1416.2	1465.9	1506.9	1527.4
60°	1269.9	1287.4	1343.0	1384.0	1401.5
62.5°	1144.1	1161.6	1214.3	1264.0	1275.7
65°	1021.2	1035.8	1091.4	1135.3	1155.8
67.5°	895.3	912.9	968.5	1015.3	1035.8
70°	769.5	787.1	848.5	901.2	918.8
72.5°	640.8	661.3	722.7	784.2	804.6
75°	520.8	544.2	608.6	670.0	687.6
77.5°	403.8	433.0	503.3	567.6	591.0
80°	295.5	330.6	406.7	476.9	497.4
82.5°	201.9	239.9	318.9	392.1	418.4
85°	120.0	158.0	242.9	313.1	336.5
87.5°	52.7	93.6	175.6	242.9	263.3
90°	2.9	49.7	120.0	181.4	204.8
92.5°	0.0	20.5	76.1	128.7	152.2
95°	0.0	2.9	43.9	87.8	105.3
97.5°	0.0	0.0	20.5	52.7	67.3
100°	0.0	0.0	2.9	26.3	38.0
102.5°	2.9	0.0	0.0	5.9	14.6
105°	2.9	0.0	0.0	0.0	2.9
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)