

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: P257023

Luminaire Tested: **HGL-S-FR-80L940-UNV-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257023
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-80L940-UNV-4
Description: HUGO 4 FOOT LINEAR LED LUMINAIRE WITH FROSTED LENS
Light Source: (168) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6228.5 lumens
Efficiency: N/A
Efficacy: 87.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.33
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 4' x H: 0.01')
CIE Type: Direct

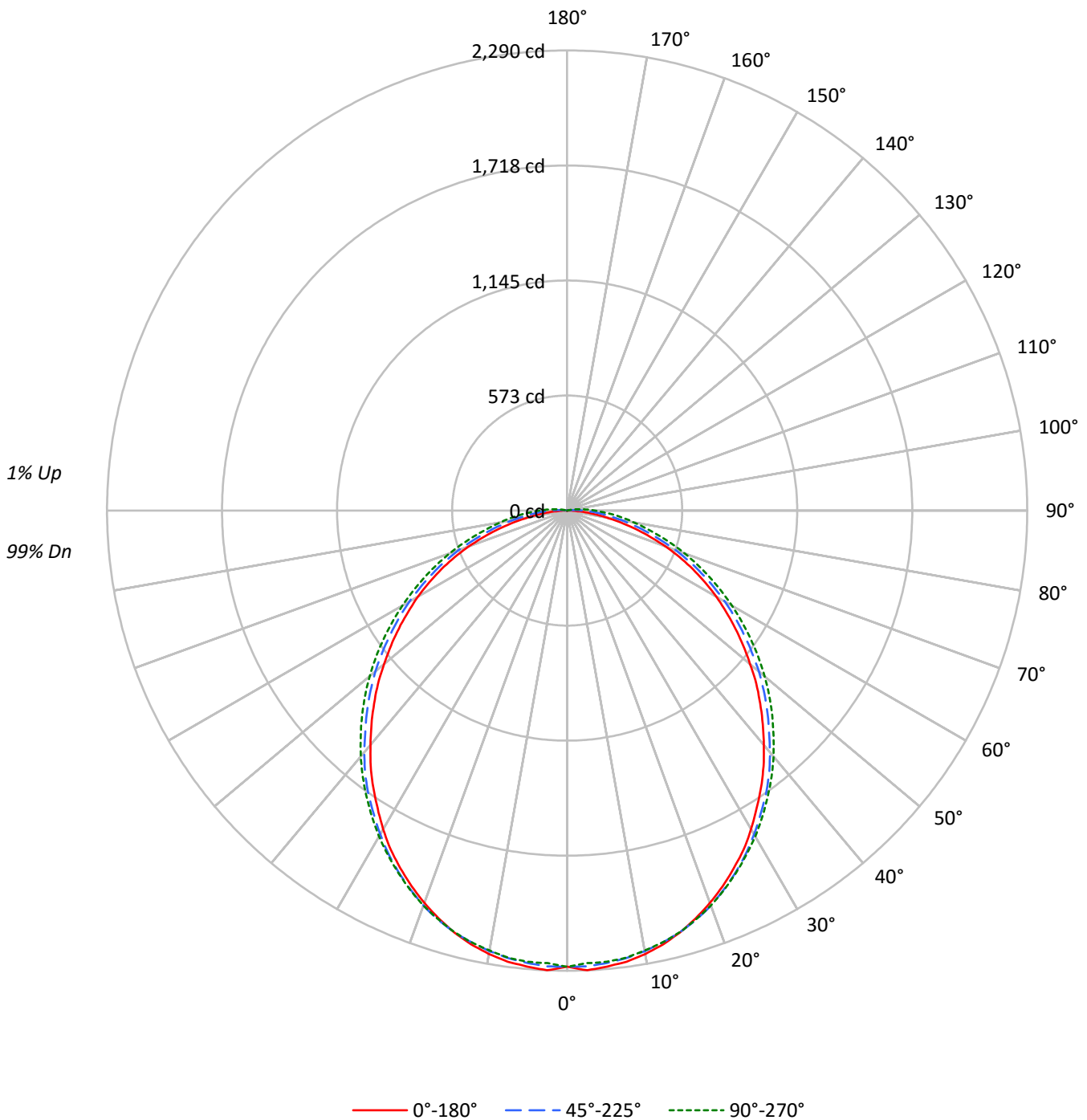
Input Watts (W): 70.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	26655	26655	26655
5°	26844	26565	26469
10°	26701	26395	26298
15°	26400	26165	26088
20°	25946	25835	25733
25°	25410	25336	25259
30°	24791	24761	24765
35°	24079	24164	24203
40°	23289	23425	23626
45°	22502	22640	22967
50°	21645	21905	22284
55°	20854	21003	21491
60°	20068	20175	20680
65°	19072	19152	19843
70°	17731	18067	19035
75°	15822	16635	18131
80°	13315	15681	18219
85°	10623	16104	20442



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.5	3.4
10°-20°	610.4	9.8
20°-30°	909.0	14.6
30°-40°	1069.8	17.2
40°-50°	1080.5	17.3
50°-60°	957.6	15.4
60°-70°	728.6	11.7
70°-80°	437.4	7.0
80°-90°	179.7	2.9
90°-100°	39.1	0.6
100°-110°	1.9	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°	1733.9	27.8
0°-40°	2803.7	45.0
0°-60°	4841.8	77.7
0°-90°	6187.5	99.3
90°-120°	41.0	0.7
90°-150°	41.0	0.7
90°-180°	41.0	0.7
0°-180°	6228.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2270	2270	2270	2270	2270	
5°	2278	2252	2260	2256	2254	216
15°	2173	2151	2171	2169	2171	612
25°	1964	1948	1985	1983	1989	904
35°	1683	1677	1724	1732	1740	1052
45°	1358	1364	1408	1428	1443	1048
55°	1022	1036	1074	1101	1115	914
65°	690	700	738	767	781	682
75°	352	368	411	453	465	374
85°	81	107	164	212	227	91
90°	2	34	81	123	138	5
95°	0	2	30	59	71	0
105°	2	0	0	0	2	1
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°	2270.0	2270.0	2270.0	2270.0	2270.0
2.5°	2289.7	2264.0	2270.0	2266.0	2254.1
5°	2277.9	2252.2	2260.1	2256.1	2254.1
7.5°	2264.0	2238.3	2246.2	2242.3	2244.2
10°	2240.3	2214.6	2226.4	2222.5	2222.5
12.5°	2210.6	2188.9	2200.7	2196.8	2200.7
15°	2173.1	2151.3	2171.1	2169.1	2171.1
17.5°	2127.6	2107.8	2135.5	2131.5	2133.5
20°	2078.2	2058.4	2092.0	2084.1	2092.0
22.5°	2022.8	2007.0	2040.6	2034.7	2042.6
25°	1963.5	1947.6	1985.2	1983.2	1989.2
27.5°	1902.2	1888.3	1925.9	1929.9	1931.8
30°	1831.0	1821.1	1860.6	1866.6	1872.5
32.5°	1755.9	1749.9	1791.4	1801.3	1807.3
35°	1682.7	1676.8	1724.2	1732.1	1740.0
37.5°	1605.6	1601.6	1651.1	1659.0	1670.8
40°	1522.5	1524.5	1570.0	1583.8	1597.7
42.5°	1441.5	1445.4	1486.9	1506.7	1520.6
45°	1358.4	1364.3	1407.8	1427.6	1443.4
47.5°	1277.3	1283.3	1326.8	1348.5	1364.3
50°	1188.4	1202.2	1245.7	1265.5	1283.3
52.5°	1105.3	1119.2	1158.7	1184.4	1200.2
55°	1022.3	1036.1	1073.7	1101.4	1115.2
57.5°	937.2	957.0	990.6	1018.3	1032.2
60°	858.2	870.0	907.6	935.3	947.1
62.5°	773.1	785.0	820.6	854.2	862.1
65°	690.1	700.0	737.5	767.2	781.0
67.5°	605.1	616.9	654.5	686.1	700.0
70°	520.0	531.9	573.4	609.0	620.9
72.5°	433.0	446.9	488.4	529.9	543.8
75°	352.0	367.8	411.3	452.8	464.7
77.5°	272.9	292.6	340.1	383.6	399.4
80°	199.7	223.4	274.8	322.3	336.1
82.5°	136.4	162.1	215.5	265.0	282.8
85°	81.1	106.8	164.1	211.6	227.4
87.5°	35.6	63.3	118.6	164.1	178.0
90°	2.0	33.6	81.1	122.6	138.4
92.5°	0.0	13.8	51.4	87.0	102.8
95°	0.0	2.0	29.7	59.3	71.2
97.5°	0.0	0.0	13.8	35.6	45.5
100°	0.0	0.0	2.0	17.8	25.7
102.5°	2.0	0.0	0.0	4.0	9.9
105°	2.0	0.0	0.0	0.0	2.0
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)