

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: P257030

Luminaire Tested: **HGL-S-FR-40L940-UNV-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257030
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-40L940-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: 6095.2 lumens
Efficiency: N/A
Efficacy: 105.1 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

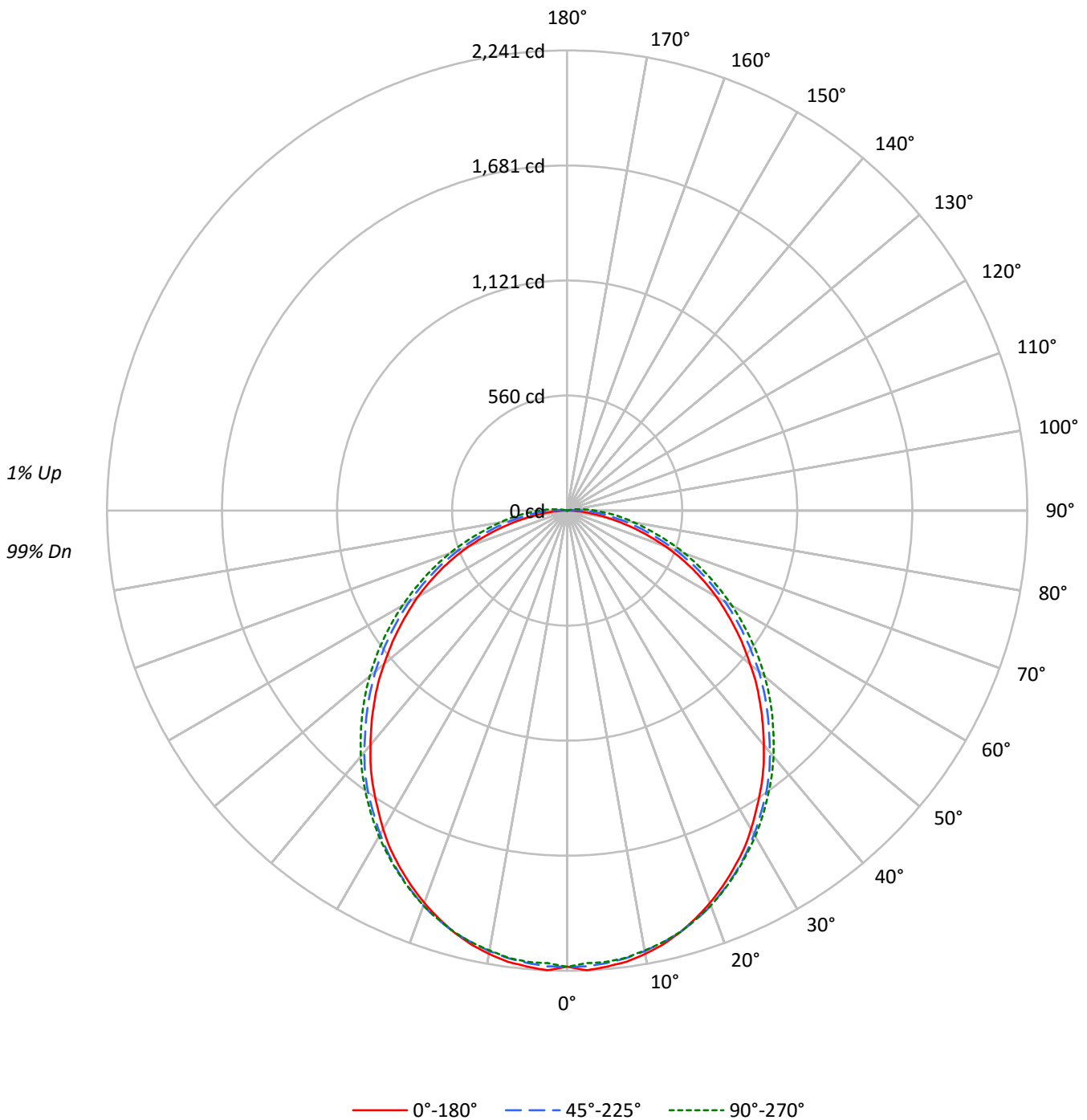
Input Watts (W): 58
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	13042	13042	13042
5°	13136	12999	12951
10°	13067	12917	12867
15°	12922	12805	12765
20°	12701	12645	12591
25°	12441	12402	12359
30°	12139	12122	12117
35°	11792	11831	11843
40°	11407	11470	11560
45°	11024	11087	11238
50°	10606	10729	10903
55°	10222	10289	10515
60°	9840	9886	10119
65°	9357	9389	9709
70°	8706	8859	9314
75°	7776	8164	8870
80°	6560	7708	8914
85°	5267	7939	10001



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.9	3.4
10°-20°	597.3	9.8
20°-30°	889.5	14.6
30°-40°	1046.9	17.2
40°-50°	1057.4	17.3
50°-60°	937.1	15.4
60°-70°	713.0	11.7
70°-80°	428.0	7.0
80°-90°	175.9	2.9
90°-100°	38.3	0.6
100°-110°	1.8	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°	1696.8	27.8
0°-40°	2743.7	45.0
0°-60°	4738.2	77.7
0°-90°	6055.1	99.3
90°-120°	40.1	0.7
90°-150°	40.1	0.7
90°-180°	40.0	0.7
0°-180°	6095.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2221	2221	2221	2221	2221	
5°	2229	2204	2212	2208	2206	212
15°	2127	2105	2125	2123	2125	599
25°	1922	1906	1943	1941	1947	885
35°	1647	1641	1687	1695	1703	1029
45°	1329	1335	1378	1397	1412	1026
55°	1000	1014	1051	1078	1091	895
65°	675	685	722	751	764	668
75°	344	360	402	443	455	366
85°	79	104	161	207	222	89
90°	2	33	79	120	135	5
95°	0	2	29	58	70	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°	2221.4	2221.4	2221.4	2221.4	2221.4
2.5°	2240.7	2215.6	2221.4	2217.5	2205.9
5°	2229.1	2204.0	2211.7	2207.8	2205.9
7.5°	2215.6	2190.4	2198.2	2194.3	2196.2
10°	2192.3	2167.2	2178.8	2174.9	2174.9
12.5°	2163.3	2142.0	2153.6	2149.8	2153.6
15°	2126.6	2105.3	2124.6	2122.7	2124.6
17.5°	2082.1	2062.7	2089.8	2085.9	2087.9
20°	2033.7	2014.3	2047.2	2039.5	2047.2
22.5°	1979.5	1964.0	1996.9	1991.1	1998.9
25°	1921.5	1906.0	1942.7	1940.8	1946.6
27.5°	1861.5	1847.9	1884.7	1888.6	1890.5
30°	1791.8	1782.1	1820.8	1826.6	1832.4
32.5°	1718.3	1712.5	1753.1	1762.8	1768.6
35°	1646.7	1640.9	1687.3	1695.1	1702.8
37.5°	1571.2	1567.3	1615.7	1623.5	1635.1
40°	1489.9	1491.9	1536.4	1549.9	1563.5
42.5°	1410.6	1414.5	1455.1	1474.5	1488.0
45°	1329.3	1335.1	1377.7	1397.1	1412.5
47.5°	1250.0	1255.8	1298.4	1319.7	1335.1
50°	1162.9	1176.5	1219.0	1238.4	1255.8
52.5°	1081.7	1095.2	1133.9	1159.1	1174.5
55°	1000.4	1013.9	1050.7	1077.8	1091.3
57.5°	917.2	936.5	969.4	996.5	1010.1
60°	839.8	851.4	888.2	915.3	926.9
62.5°	756.6	768.2	803.0	835.9	843.7
65°	675.3	685.0	721.8	750.8	764.3
67.5°	592.1	603.7	640.5	671.4	685.0
70°	508.9	520.5	561.1	596.0	607.6
72.5°	423.8	437.3	477.9	518.6	532.1
75°	344.4	359.9	402.5	443.1	454.7
77.5°	267.0	286.4	332.8	375.4	390.9
80°	195.4	218.7	269.0	315.4	328.9
82.5°	133.5	158.7	210.9	259.3	276.7
85°	79.3	104.5	160.6	207.0	222.5
87.5°	34.8	61.9	116.1	160.6	174.1
90°	1.9	32.9	79.3	120.0	135.4
92.5°	0.0	13.5	50.3	85.1	100.6
95°	0.0	1.9	29.0	58.0	69.7
97.5°	0.0	0.0	13.5	34.8	44.5
100°	0.0	0.0	1.9	17.4	25.2
102.5°	1.9	0.0	0.0	3.9	9.7
105°	1.9	0.0	0.0	0.0	1.9
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)