

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: P257033

Luminaire Tested: **HGL-S-FR-80L940-UNV-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257033
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-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: 12457.0 lumens
Efficiency: N/A
Efficacy: 88.3 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

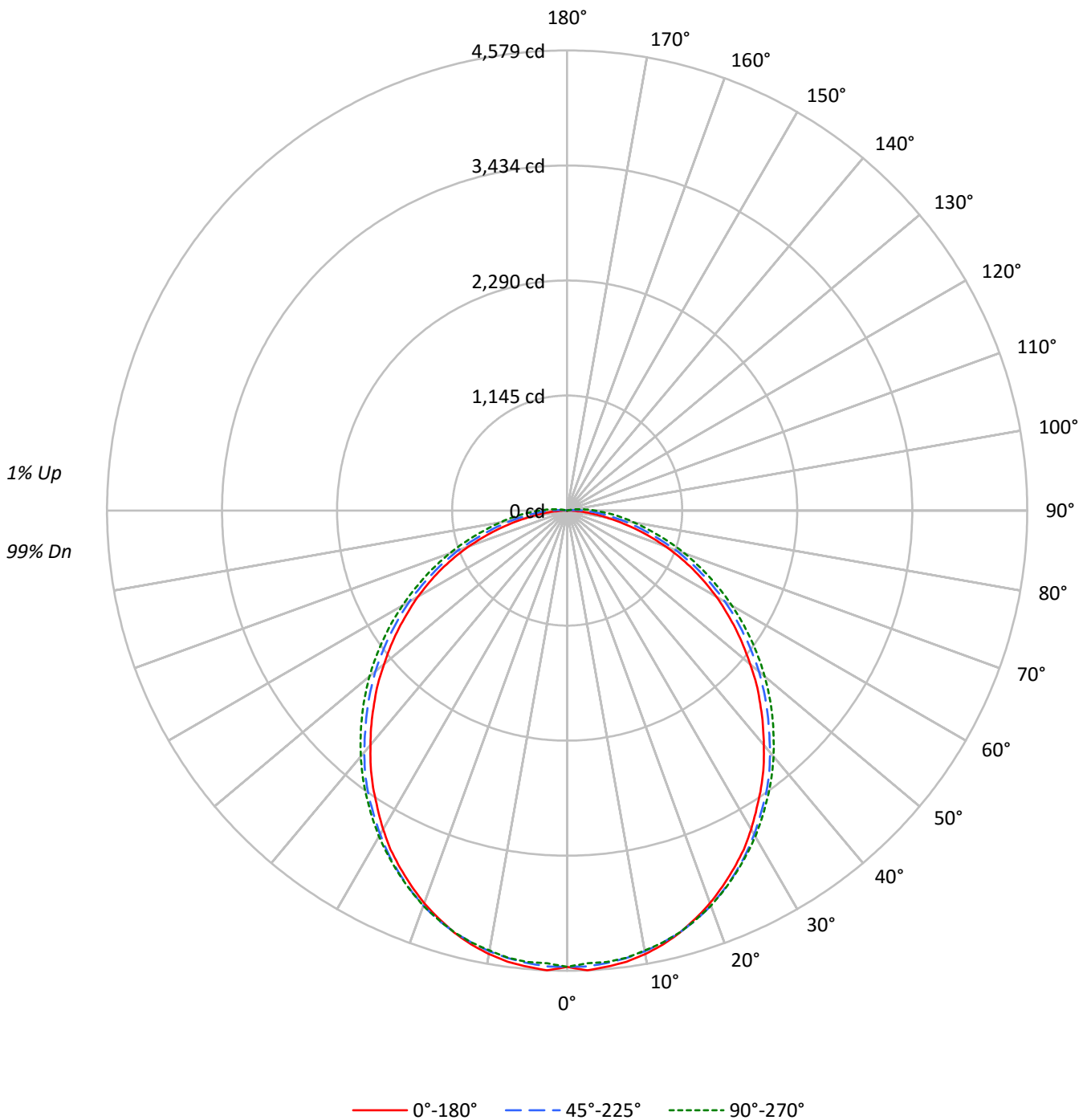
Input Watts (W): 141
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	26847	26566	26469
10°	26707	26400	26298
15°	26408	26171	26088
20°	25957	25843	25733
25°	25424	25346	25258
30°	24809	24775	24765
35°	24100	24179	24204
40°	23314	23442	23625
45°	22530	22660	22968
50°	21676	21927	22284
55°	20891	21028	21491
60°	20110	20204	20681
65°	19123	19187	19844
70°	17794	18107	19033
75°	15894	16684	18129
80°	13409	15751	18222
85°	10766	16223	20442



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	429.1	3.4
10°-20°	1220.7	9.8
20°-30°	1818.0	14.6
30°-40°	2139.6	17.2
40°-50°	2161.1	17.3
50°-60°	1915.1	15.4
60°-70°	1457.2	11.7
70°-80°	874.8	7.0
80°-90°	359.5	2.9
90°-100°	78.2	0.6
100°-110°	3.8	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°	3467.8	27.8
0°-40°	5607.4	45.0
0°-60°	9683.6	77.7
0°-90°	12375.0	99.3
90°-120°	82.0	0.7
90°-150°	82.0	0.7
90°-180°	82.0	0.7
0°-180°	12457.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4540	4540	4540	4540	4540	
5°	4556	4504	4520	4512	4508	433
15°	4346	4303	4342	4338	4342	1224
25°	3927	3895	3970	3966	3978	1808
35°	3365	3354	3448	3464	3480	2104
45°	2717	2729	2816	2855	2887	2097
55°	2044	2072	2147	2203	2230	1828
65°	1380	1400	1475	1534	1562	1364
75°	704	736	823	906	929	747
85°	162	214	328	423	455	182
90°	4	67	162	245	277	11
95°	0	4	59	119	142	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°	4539.9	4539.9	4539.9	4539.9	4539.9
2.5°	4579.4	4528.0	4539.9	4532.0	4508.3
5°	4555.7	4504.3	4520.1	4512.2	4508.3
7.5°	4528.0	4476.6	4492.4	4484.5	4488.5
10°	4480.6	4429.2	4452.9	4445.0	4445.0
12.5°	4421.3	4377.8	4401.5	4393.6	4401.5
15°	4346.1	4302.6	4342.2	4338.2	4342.2
17.5°	4255.2	4215.6	4271.0	4263.1	4267.0
20°	4156.3	4116.8	4184.0	4168.2	4184.0
22.5°	4045.6	4013.9	4081.2	4069.3	4085.1
25°	3926.9	3895.3	3970.4	3966.5	3978.3
27.5°	3804.3	3776.7	3851.8	3859.7	3863.7
30°	3662.0	3642.2	3721.3	3733.2	3745.0
32.5°	3511.7	3499.8	3582.9	3602.7	3614.5
35°	3365.4	3353.5	3448.4	3464.2	3480.1
37.5°	3211.1	3203.2	3302.1	3317.9	3341.7
40°	3045.1	3049.0	3140.0	3167.6	3195.3
42.5°	2882.9	2890.8	2973.9	3013.4	3041.1
45°	2716.8	2728.7	2815.7	2855.2	2886.9
47.5°	2554.7	2566.5	2653.5	2697.0	2728.7
50°	2376.7	2404.4	2491.4	2531.0	2566.5
52.5°	2210.6	2238.3	2317.4	2368.8	2400.5
55°	2044.5	2072.2	2147.4	2202.7	2230.4
57.5°	1874.5	1914.0	1981.3	2036.6	2064.3
60°	1716.3	1740.0	1815.2	1870.5	1894.3
62.5°	1546.3	1570.0	1641.2	1708.4	1724.2
65°	1380.2	1399.9	1475.1	1534.4	1562.1
67.5°	1210.1	1233.8	1309.0	1372.3	1399.9
70°	1040.1	1063.8	1146.8	1218.0	1241.7
72.5°	866.1	893.7	976.8	1059.8	1087.5
75°	703.9	735.6	822.6	905.6	929.3
77.5°	545.7	585.3	680.2	767.2	798.8
80°	399.4	446.9	549.7	644.6	672.3
82.5°	272.9	324.3	431.1	529.9	565.5
85°	162.1	213.5	328.2	423.1	454.8
87.5°	71.2	126.5	237.3	328.2	355.9
90°	4.0	67.2	162.1	245.2	276.8
92.5°	0.0	27.7	102.8	174.0	205.6
95°	0.0	4.0	59.3	118.6	142.4
97.5°	0.0	0.0	27.7	71.2	91.0
100°	0.0	0.0	4.0	35.6	51.4
102.5°	4.0	0.0	0.0	7.9	19.8
105°	4.0	0.0	0.0	0.0	4.0
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)