

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: P257019

Luminaire Tested: **HGL-S-FR-40L940-UNV-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257019
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-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: 3047.7 lumens
Efficiency: N/A
Efficacy: 103.0 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

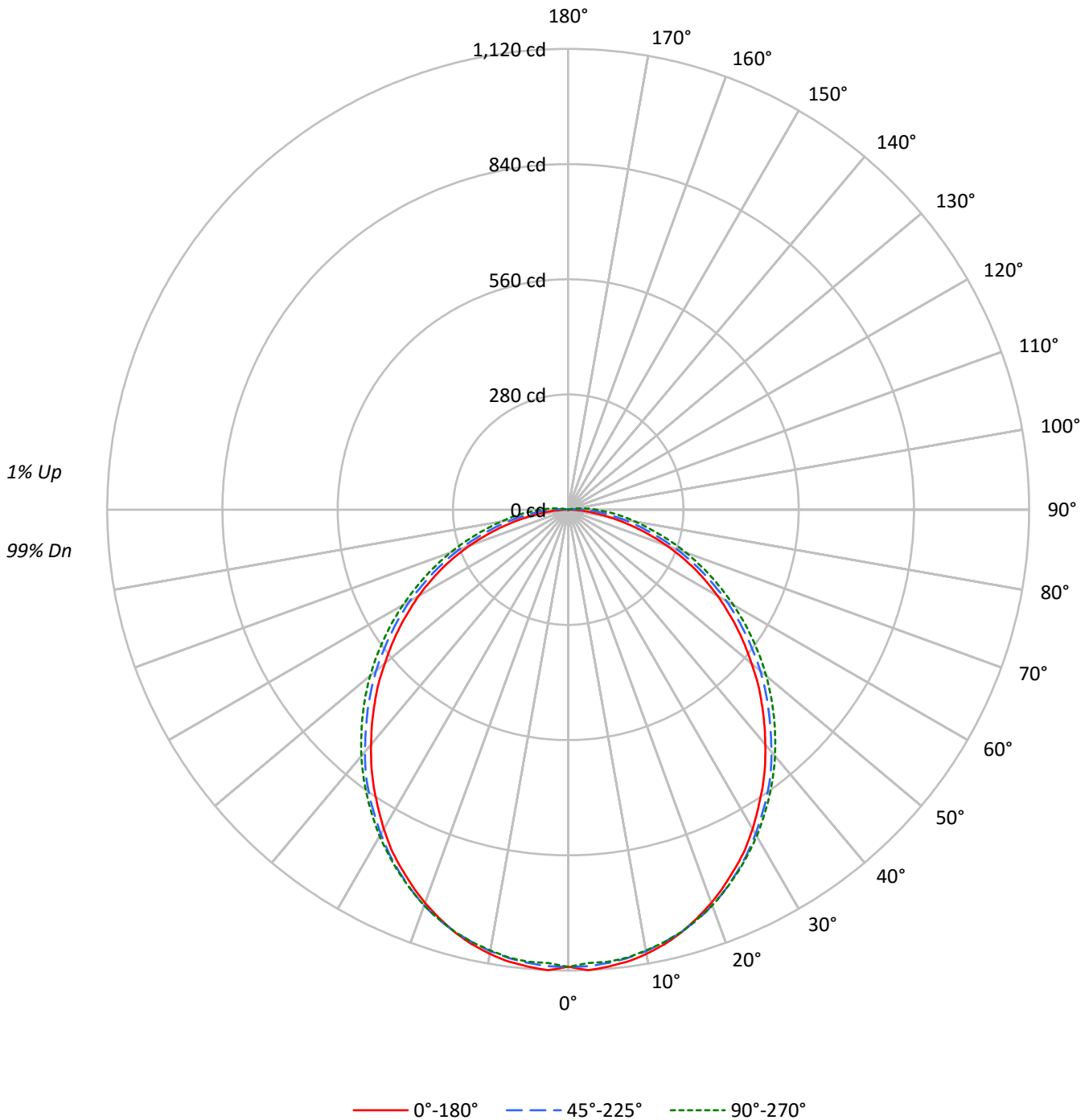
Input Watts (W): 29.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P257019

CATALOG NUMBER: HGL-S-FR-40L940-UNV-4

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	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°	13135	12997	12951
10°	13065	12915	12868
15°	12918	12802	12765
20°	12694	12641	12591
25°	12433	12397	12359
30°	12130	12116	12117
35°	11781	11824	11843
40°	11396	11462	11559
45°	11011	11079	11239
50°	10591	10718	10903
55°	10204	10277	10516
60°	9819	9872	10118
65°	9333	9372	9711
70°	8678	8841	9314
75°	7740	8138	8872
80°	6514	7675	8917
85°	5200	7880	10005



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.0	3.4
10°-20°	298.6	9.8
20°-30°	444.8	14.6
30°-40°	523.5	17.2
40°-50°	528.7	17.3
50°-60°	468.5	15.4
60°-70°	356.5	11.7
70°-80°	214.0	7.0
80°-90°	87.9	2.9
90°-100°	19.2	0.6
100°-110°	0.9	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°	848.4	27.8
0°-40°	1371.8	45.0
0°-60°	2369.1	77.7
0°-90°	3027.6	99.3
90°-120°	20.1	0.7
90°-150°	20.1	0.7
90°-180°	20.0	0.7
0°-180°	3047.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1111	1111	1111	1111	1111	
5°	1115	1102	1106	1104	1103	106
15°	1063	1053	1062	1061	1062	299
25°	961	953	971	970	973	442
35°	823	820	844	848	851	515
45°	665	668	689	698	706	513
55°	500	507	525	539	546	447
65°	338	342	361	375	382	334
75°	172	180	201	222	227	183
85°	40	52	80	104	111	45
90°	1	16	40	60	68	3
95°	0	1	14	29	35	0
105°	1	0	0	0	1	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



TEST NUMBER: P257019

CATALOG NUMBER: HGL-S-FR-40L940-UNV-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1110.7	1110.7	1110.7	1110.7	1110.7
2.5°	1120.4	1107.8	1110.7	1108.8	1102.9
5°	1114.6	1102.0	1105.8	1103.9	1102.9
7.5°	1107.8	1095.2	1099.1	1097.1	1098.1
10°	1096.2	1083.6	1089.4	1087.5	1087.5
12.5°	1081.7	1071.0	1076.8	1074.9	1076.8
15°	1063.3	1052.6	1062.3	1061.3	1062.3
17.5°	1041.0	1031.4	1044.9	1043.0	1043.9
20°	1016.8	1007.2	1023.6	1019.7	1023.6
22.5°	989.8	982.0	998.5	995.6	999.4
25°	960.7	953.0	971.4	970.4	973.3
27.5°	930.7	924.0	942.3	944.3	945.2
30°	895.9	891.1	910.4	913.3	916.2
32.5°	859.1	856.2	876.6	881.4	884.3
35°	823.3	820.4	843.7	847.5	851.4
37.5°	785.6	783.7	807.9	811.7	817.5
40°	745.0	745.9	768.2	775.0	781.7
42.5°	705.3	707.2	727.6	737.2	744.0
45°	664.7	667.6	688.9	698.5	706.3
47.5°	625.0	627.9	649.2	659.8	667.6
50°	581.5	588.2	609.5	619.2	627.9
52.5°	540.8	547.6	567.0	579.5	587.3
55°	500.2	507.0	525.4	538.9	545.7
57.5°	458.6	468.3	484.7	498.3	505.0
60°	419.9	425.7	444.1	457.6	463.4
62.5°	378.3	384.1	401.5	418.0	421.8
65°	337.7	342.5	360.9	375.4	382.2
67.5°	296.1	301.9	320.2	335.7	342.5
70°	254.5	260.3	280.6	298.0	303.8
72.5°	211.9	218.7	239.0	259.3	266.1
75°	172.2	180.0	201.2	221.6	227.4
77.5°	133.5	143.2	166.4	187.7	195.4
80°	97.7	109.3	134.5	157.7	164.5
82.5°	66.8	79.3	105.5	129.6	138.4
85°	39.7	52.2	80.3	103.5	111.3
87.5°	17.4	31.0	58.0	80.3	87.1
90°	1.0	16.4	39.7	60.0	67.7
92.5°	0.0	6.8	25.2	42.6	50.3
95°	0.0	1.0	14.5	29.0	34.8
97.5°	0.0	0.0	6.8	17.4	22.3
100°	0.0	0.0	1.0	8.7	12.6
102.5°	1.0	0.0	0.0	1.9	4.8
105°	1.0	0.0	0.0	0.0	1.0
107.5°	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P257019

CATALOG NUMBER: HGL-S-FR-40L940-UNV-4

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)