

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: P257038

Luminaire Tested: **HGL-S-FR-80L930-UNV-12**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257038
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-80L930-UNV-12
Description: HUGO 12 FOOT LINEAR LED LUMINAIRE WITH FROSTED LENS
Light Source: (504) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18066.1 lumens
Efficiency: N/A
Efficacy: 85.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.33
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 12' x H: 0.01')
CIE Type: Direct

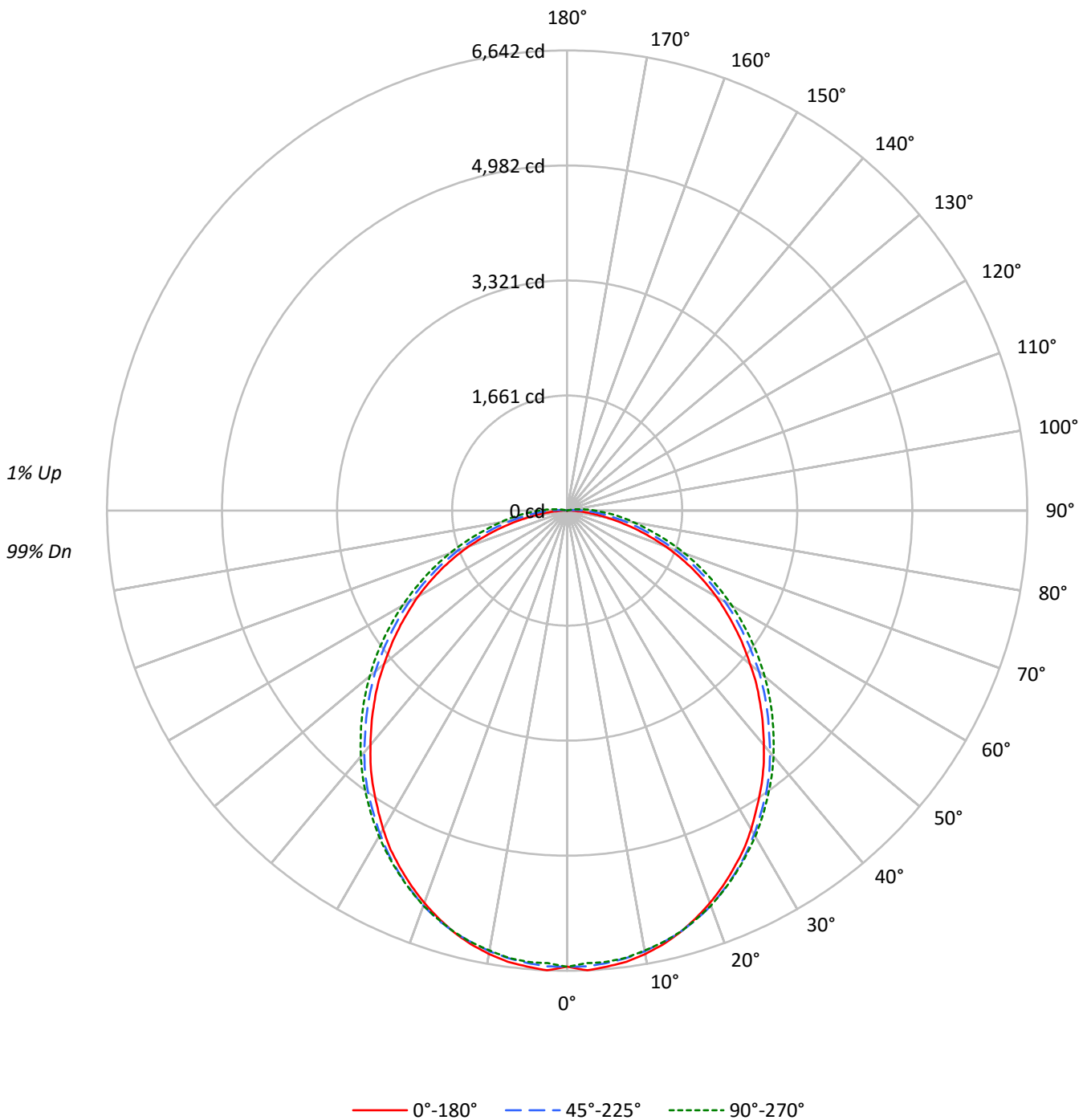
Input Watts (W): 212
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	25771	25771	25771
5°	25958	25686	25592
10°	25823	25526	25426
15°	25536	25305	25223
20°	25100	24989	24880
25°	24586	24509	24421
30°	23992	23957	23944
35°	23308	23382	23401
40°	22549	22670	22842
45°	21792	21915	22207
50°	20968	21207	21545
55°	20210	20339	20779
60°	19457	19544	19995
65°	18505	18562	19186
70°	17223	17520	18403
75°	15391	16146	17528
80°	12996	15250	17617
85°	10459	15725	19765



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	622.3	3.4
10°-20°	1770.4	9.8
20°-30°	2636.6	14.6
30°-40°	3103.0	17.2
40°-50°	3134.1	17.3
50°-60°	2777.4	15.4
60°-70°	2113.3	11.7
70°-80°	1268.7	7.0
80°-90°	521.3	2.9
90°-100°	113.5	0.6
100°-110°	5.5	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°	5029.2	27.8
0°-40°	8132.2	45.0
0°-60°	14043.8	77.7
0°-90°	17947.2	99.3
90°-120°	118.9	0.7
90°-150°	118.9	0.7
90°-180°	119.0	0.7
0°-180°	18066.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6584	6584	6584	6584	6584	
5°	6607	6532	6555	6544	6538	627
15°	6303	6240	6297	6292	6297	1775
25°	5695	5649	5758	5752	5770	2623
35°	4881	4864	5001	5024	5047	3051
45°	3940	3957	4084	4141	4187	3041
55°	2965	3005	3114	3194	3235	2651
65°	2002	2030	2139	2225	2265	1979
75°	1021	1067	1193	1313	1348	1084
85°	235	310	476	614	660	264
90°	6	98	235	356	402	16
95°	0	6	86	172	206	0
105°	6	0	0	0	6	3
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°	6584.1	6584.1	6584.1	6584.1	6584.1
2.5°	6641.5	6566.9	6584.1	6572.6	6538.2
5°	6607.0	6532.5	6555.4	6544.0	6538.2
7.5°	6566.9	6492.3	6515.3	6503.8	6509.5
10°	6498.1	6423.5	6457.9	6446.5	6446.5
12.5°	6412.0	6349.0	6383.4	6371.9	6383.4
15°	6303.1	6240.0	6297.3	6291.6	6297.3
17.5°	6171.2	6113.8	6194.1	6182.6	6188.4
20°	6027.8	5970.4	6067.9	6045.0	6067.9
22.5°	5867.2	5821.3	5918.8	5901.6	5924.5
25°	5695.1	5649.2	5758.2	5752.5	5769.7
27.5°	5517.3	5477.2	5586.2	5597.6	5603.4
30°	5310.9	5282.2	5396.9	5414.1	5431.3
32.5°	5092.9	5075.7	5196.2	5224.8	5242.0
35°	4880.7	4863.5	5001.2	5024.1	5047.0
37.5°	4657.0	4645.6	4789.0	4811.9	4846.3
40°	4416.2	4421.9	4553.8	4594.0	4634.1
42.5°	4181.0	4192.5	4312.9	4370.3	4410.4
45°	3940.1	3957.3	4083.5	4140.9	4186.8
47.5°	3705.0	3722.2	3848.4	3911.5	3957.3
50°	3446.9	3487.0	3613.2	3670.6	3722.2
52.5°	3206.0	3246.2	3360.9	3435.4	3481.3
55°	2965.1	3005.3	3114.3	3194.5	3234.7
57.5°	2718.5	2775.9	2873.4	2953.7	2993.8
60°	2489.1	2523.5	2632.5	2712.8	2747.2
62.5°	2242.5	2276.9	2380.1	2477.6	2500.6
65°	2001.6	2030.3	2139.3	2225.3	2265.4
67.5°	1755.0	1789.4	1898.4	1990.1	2030.3
70°	1508.4	1542.8	1663.2	1766.5	1800.9
72.5°	1256.0	1296.2	1416.6	1537.1	1577.2
75°	1020.9	1066.8	1192.9	1313.4	1347.8
77.5°	791.5	848.8	986.5	1112.6	1158.5
80°	579.3	648.1	797.2	934.9	975.0
82.5°	395.7	470.3	625.1	768.5	820.1
85°	235.1	309.7	476.0	613.7	659.6
87.5°	103.2	183.5	344.1	476.0	516.2
90°	5.7	97.5	235.1	355.6	401.5
92.5°	0.0	40.1	149.1	252.4	298.2
95°	0.0	5.7	86.0	172.1	206.5
97.5°	0.0	0.0	40.1	103.2	131.9
100°	0.0	0.0	5.7	51.6	74.6
102.5°	5.7	0.0	0.0	11.5	28.7
105°	5.7	0.0	0.0	0.0	5.7
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)