

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: P231398

Luminaire Tested: **HGL-S-FR-30L840-UNV-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P231398
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-30L840-UNV-4
Description: HUGO 4 FOOT LINEAR LED LUMINAIRE WITH FROSTED LENS
Light Source: (168) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

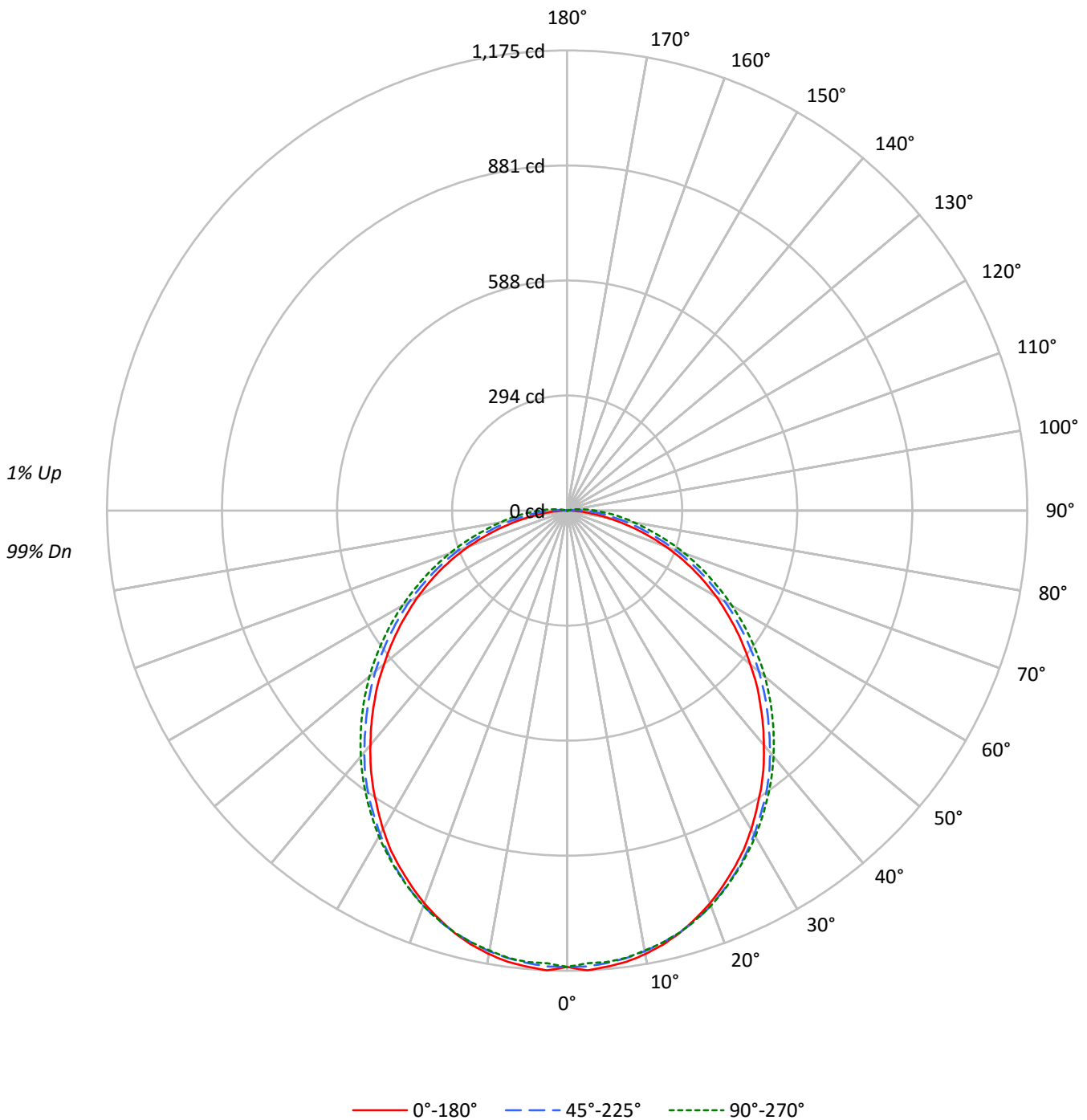
Lumens per Lamp: N/A
Luminaire Lumens: 3196.9 lumens
Efficiency: N/A
Efficacy: 137.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.33
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 4' x H: 0.01')
CIE Type: Direct

Input Watts (W): 23.2
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°	13681	13681	13681
5°	13779	13634	13586
10°	13705	13548	13497
15°	13550	13430	13391
20°	13317	13261	13208
25°	13042	13005	12965
30°	12724	12709	12711
35°	12359	12403	12423
40°	11954	12023	12126
45°	11549	11621	11789
50°	11110	11243	11438
55°	10704	10780	11031
60°	10300	10354	10614
65°	9789	9832	10186
70°	9101	9273	9770
75°	8122	8538	9305
80°	6834	8052	9351
85°	5449	8263	10491



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.1	3.4
10°-20°	313.3	9.8
20°-30°	466.6	14.6
30°-40°	549.1	17.2
40°-50°	554.6	17.3
50°-60°	491.5	15.4
60°-70°	374.0	11.7
70°-80°	224.5	7.0
80°-90°	92.2	2.9
90°-100°	20.1	0.6
100°-110°	1.0	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°	890.0	27.8
0°-40°	1439.1	45.0
0°-60°	2485.2	77.7
0°-90°	3175.9	99.3
90°-120°	21.0	0.7
90°-150°	21.0	0.7
90°-180°	21.0	0.7
0°-180°	3196.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1165	1165	1165	1165	1165	
5°	1169	1156	1160	1158	1157	111
15°	1115	1104	1114	1113	1114	314
25°	1008	1000	1019	1018	1021	464
35°	864	861	885	889	893	540
45°	697	700	723	733	741	538
55°	525	532	551	565	572	469
65°	354	359	379	394	401	350
75°	181	189	211	232	238	192
85°	42	55	84	109	117	47
90°	1	17	42	63	71	3
95°	0	1	15	30	36	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



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1165.1	1165.1	1165.1	1165.1	1165.1
2.5°	1175.2	1162.1	1165.1	1163.1	1157.0
5°	1169.2	1156.0	1160.0	1158.0	1157.0
7.5°	1162.1	1148.9	1152.9	1150.9	1151.9
10°	1149.9	1136.7	1142.8	1140.7	1140.7
12.5°	1134.7	1123.5	1129.6	1127.5	1129.6
15°	1115.4	1104.2	1114.4	1113.3	1114.4
17.5°	1092.0	1081.9	1096.1	1094.1	1095.1
20°	1066.7	1056.5	1073.8	1069.7	1073.8
22.5°	1038.2	1030.1	1047.4	1044.3	1048.4
25°	1007.8	999.7	1019.0	1017.9	1021.0
27.5°	976.3	969.2	988.5	990.5	991.6
30°	939.8	934.7	955.0	958.1	961.1
32.5°	901.2	898.2	919.5	924.6	927.6
35°	863.7	860.6	885.0	889.0	893.1
37.5°	824.1	822.1	847.4	851.5	857.6
40°	781.5	782.5	805.8	812.9	820.0
42.5°	739.9	741.9	763.2	773.3	780.5
45°	697.2	700.3	722.6	732.8	740.9
47.5°	655.6	658.7	681.0	692.2	700.3
50°	610.0	617.1	639.4	649.5	658.7
52.5°	567.3	574.4	594.7	607.9	616.0
55°	524.7	531.8	551.1	565.3	572.4
57.5°	481.1	491.2	508.5	522.7	529.8
60°	440.5	446.6	465.8	480.0	486.1
62.5°	396.8	402.9	421.2	438.4	442.5
65°	354.2	359.3	378.6	393.8	400.9
67.5°	310.6	316.6	335.9	352.2	359.3
70°	266.9	273.0	294.3	312.6	318.7
72.5°	222.3	229.4	250.7	272.0	279.1
75°	180.7	188.8	211.1	232.4	238.5
77.5°	140.1	150.2	174.6	196.9	205.0
80°	102.5	114.7	141.1	165.4	172.5
82.5°	70.0	83.2	110.6	136.0	145.1
85°	41.6	54.8	84.2	108.6	116.7
87.5°	18.3	32.5	60.9	84.2	91.3
90°	1.0	17.3	41.6	62.9	71.0
92.5°	0.0	7.1	26.4	44.7	52.8
95°	0.0	1.0	15.2	30.4	36.5
97.5°	0.0	0.0	7.1	18.3	23.3
100°	0.0	0.0	1.0	9.1	13.2
102.5°	1.0	0.0	0.0	2.0	5.1
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



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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)