

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: P257083

Luminaire Tested: **HGL-S-UF-30L840-UNV-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257083
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1708-204-13)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: HGL-S-UF-30L840-UNV-8
Description: HUGO 8 FOOT LINEAR LED LUMINAIRE WITH FROSTED LENS WITH UPLIGHT
Light Source: (336) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6464.3 lumens
Efficiency: N/A
Efficacy: 144.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.32 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 8' x H: 0.1')
CIE Type: Semi-Direct

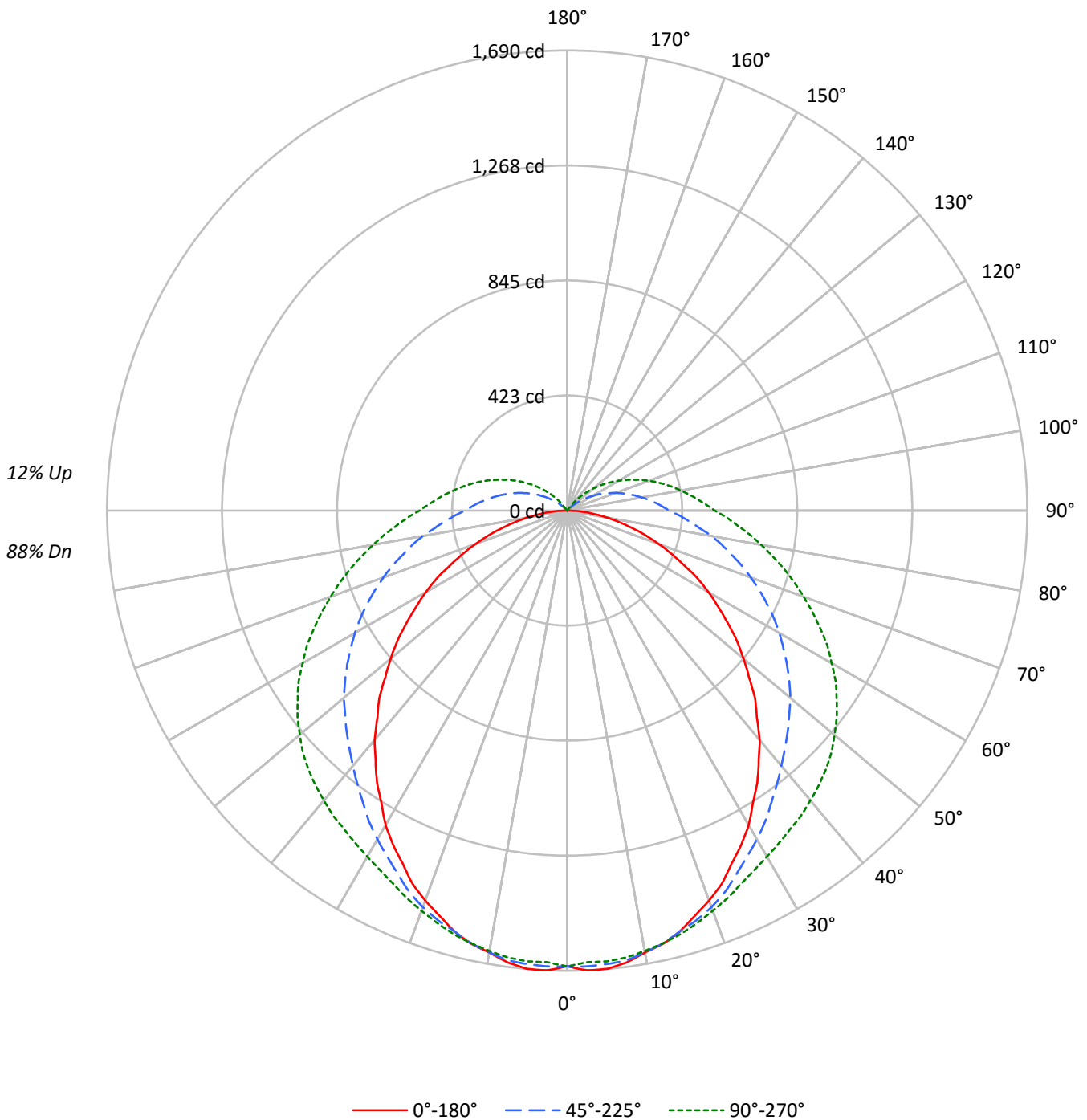
Input Watts (W): 44.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									70									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	116	116	116	116	112	112	112	112	105	105	105	98	98	98	91	91	91	88																			
1	103	97	92	87	99	94	89	85	87	84	80	81	78	75	76	73	71	68																			
2	93	84	76	69	89	81	73	67	75	69	64	70	65	61	65	61	58	55																			
3	84	73	64	56	81	70	62	55	65	58	53	61	55	50	57	52	48	45																			
4	77	64	54	47	73	62	53	46	58	50	44	54	48	42	50	45	41	38																			
5	70	57	47	40	67	55	46	39	51	44	38	48	42	36	45	39	35	32																			
6	65	51	42	35	62	49	41	34	46	39	33	43	37	32	41	35	31	28																			
7	60	46	37	31	58	45	36	30	42	34	29	39	33	28	37	31	27	25																			
8	56	42	33	27	54	41	32	27	38	31	26	36	30	25	34	28	24	22																			
9	52	38	30	24	50	37	29	24	35	28	23	33	27	22	31	26	22	20																			
10	49	35	27	22	47	34	27	22	33	26	21	31	25	20	29	24	20	18																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9828	9828	9828
5°	9949	9577	9421
10°	9803	9284	9063
15°	9692	8934	8724
20°	9477	8644	8385
25°	9208	8262	8082
30°	8976	7936	7883
35°	8651	7613	7764
40°	8340	7344	7712
45°	8000	7151	7672
50°	7609	7011	7595
55°	7235	6856	7498
60°	6890	6720	7371
65°	6379	6584	7218
70°	5933	6459	7053
75°	5322	6337	6932
80°	4660	6327	6842
85°	3870	6343	6828



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.5	2.5
10°-20°	450.9	7.0
20°-30°	676.5	10.5
30°-40°	821.3	12.7
40°-50°	887.1	13.7
50°-60°	868.8	13.4
60°-70°	770.7	11.9
70°-80°	617.3	9.5
80°-90°	447.4	6.9
90°-100°	315.3	4.9
100°-110°	219.9	3.4
110°-120°	136.2	2.1
120°-130°	69.2	1.1
130°-140°	24.0	0.4
140°-150°	1.1	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1285.9	19.9
0°-40°	2107.2	32.6
0°-60°	3863.2	59.8
0°-90°	5698.5	88.2
90°-120°	671.4	10.4
90°-150°	765.8	11.8
90°-180°	766.0	11.8
0°-180°	6464.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1674	1674	1674	1674	1674	
5°	1690	1674	1672	1664	1662	160
15°	1600	1588	1600	1614	1610	450
25°	1430	1434	1472	1496	1512	660
35°	1218	1226	1308	1386	1428	761
45°	976	1002	1146	1288	1344	750
55°	720	780	986	1148	1208	645
65°	472	584	810	966	1026	471
75°	246	402	624	774	824	263
85°	66	246	450	584	628	71
90°	2	180	374	498	542	5
95°	0	142	326	442	480	0
105°	0	76	234	338	372	0
115°	0	24	148	238	268	0
125°	0	0	72	146	172	0
135°	0	0	12	64	84	1
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°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1674	1674	1674	1674	1674	1674	1674	1674	1674	1674	1674
2.5°	1690	1688	1682	1676	1674	1674	1672	1670	1670	1668	1676
5°	1690	1688	1682	1674	1672	1674	1672	1668	1668	1666	1672
7.5°	1674	1670	1666	1660	1658	1658	1656	1656	1656	1656	1666
10°	1648	1646	1642	1636	1636	1634	1634	1636	1636	1638	1648
12.5°	1630	1626	1620	1614	1612	1612	1610	1608	1610	1612	1628
15°	1600	1598	1594	1588	1588	1588	1588	1586	1586	1588	1600
17.5°	1560	1556	1554	1550	1552	1554	1556	1554	1558	1564	1578
20°	1524	1520	1516	1510	1510	1512	1514	1514	1524	1532	1550
22.5°	1484	1482	1478	1476	1476	1478	1478	1474	1480	1492	1516
25°	1430	1428	1426	1426	1430	1434	1436	1438	1444	1452	1472
27.5°	1384	1382	1378	1374	1378	1382	1384	1388	1400	1416	1432
30°	1334	1332	1330	1330	1334	1336	1338	1336	1352	1376	1394
32.5°	1270	1268	1270	1270	1280	1286	1290	1292	1306	1328	1354
35°	1218	1218	1216	1220	1222	1226	1230	1240	1260	1282	1308
37.5°	1156	1156	1156	1166	1174	1176	1178	1190	1216	1238	1266
40°	1100	1100	1100	1104	1110	1116	1124	1138	1164	1196	1224
42.5°	1032	1034	1038	1048	1056	1060	1066	1088	1116	1154	1184
45°	976	974	978	986	994	1002	1012	1036	1070	1112	1146
47.5°	906	908	912	926	936	946	958	986	1026	1068	1106
50°	846	848	858	866	876	888	902	938	982	1024	1070
52.5°	786	788	796	802	818	832	850	890	936	982	1028
55°	720	724	730	744	764	780	800	844	890	940	986
57.5°	658	660	670	684	708	728	752	798	848	896	942
60°	600	604	610	628	660	680	704	752	804	852	900
62.5°	540	544	552	572	610	632	658	708	760	808	856
65°	472	476	488	514	560	584	610	662	712	762	810
67.5°	414	416	432	460	508	538	566	616	666	716	764
70°	358	362	374	412	464	488	518	572	622	672	718
72.5°	302	306	324	366	420	446	470	528	578	626	672
75°	246	252	276	324	376	402	428	480	534	580	624
77.5°	196	202	232	282	334	360	386	436	486	536	582
80°	148	156	192	242	294	320	344	396	444	490	538
82.5°	106	116	158	206	258	282	306	356	404	448	490
85°	66	84	126	172	222	246	270	320	366	410	450
87.5°	32	56	96	140	188	212	236	284	328	372	412
90°	2	32	68	110	158	180	204	250	294	336	374
92.5°	0	20	54	94	138	162	184	230	272	314	350
95°	0	10	42	80	122	142	164	208	250	290	326
97.5°	0	2	30	64	104	126	146	188	230	268	302
100°	0	0	20	52	88	108	128	168	208	244	278
102.5°	0	0	10	40	74	92	110	150	188	224	256
105°	0	0	2	28	60	76	94	130	168	202	234
107.5°	0	0	0	16	46	62	78	112	148	180	210
110°	0	0	0	8	34	48	64	96	128	160	190



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	0	0	0	2	22	36	50	80	110	140	168
115°	0	0	0	0	12	24	36	64	92	122	148
117.5°	0	0	0	0	4	14	24	50	76	102	128
120°	0	0	0	0	0	6	14	36	60	84	108
122.5°	0	0	0	0	0	0	4	22	44	68	90
125°	0	0	0	0	0	0	0	12	30	52	72
127.5°	0	0	0	0	0	0	0	4	18	36	54
130°	0	0	0	0	0	0	0	0	8	22	38
132.5°	0	0	0	0	0	0	0	0	2	12	24
135°	0	0	0	0	0	0	0	0	0	4	12
137.5°	2	0	0	0	0	0	0	0	0	0	4
140°	2	2	0	0	0	0	0	0	0	0	0
142.5°	0	0	0	0	0	0	0	0	0	0	0
145°	0	0	0	0	0	0	0	0	0	0	0
147.5°	0	0	0	0	0	0	0	0	0	0	0
150°	0	0	0	0	0	0	0	0	0	0	0
152.5°	0	0	0	0	0	0	0	0	0	0	0
155°	0	0	0	0	0	0	0	0	0	0	0
157.5°	0	0	0	0	0	0	0	0	0	0	0
160°	0	0	0	0	0	0	0	0	0	0	0
162.5°	0	0	0	0	0	0	0	0	0	0	0
165°	0	0	0	0	0	0	0	0	0	0	0
167.5°	0	0	0	0	0	0	0	0	0	0	0
170°	0	0	0	0	0	0	0	0	0	0	0
172.5°	0	0	0	0	0	0	0	0	0	0	0
175°	0	0	0	0	0	0	0	0	0	0	0
177.5°	0	0	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1674	1674	1674	1674	1674	1674	1674	1674	1674	1674
2.5°	1682	1674	1674	1672	1670	1668	1664	1662	1658	1660
5°	1678	1670	1670	1666	1664	1664	1662	1662	1660	1662
7.5°	1672	1662	1662	1658	1656	1654	1654	1654	1654	1656
10°	1656	1650	1650	1648	1646	1642	1640	1642	1640	1642
12.5°	1634	1628	1632	1632	1632	1628	1626	1628	1626	1628
15°	1606	1604	1610	1612	1614	1612	1610	1610	1610	1610
17.5°	1578	1576	1584	1588	1588	1588	1588	1586	1586	1588
20°	1554	1546	1550	1558	1560	1560	1562	1564	1564	1564
22.5°	1520	1516	1518	1524	1528	1530	1536	1536	1538	1540
25°	1480	1486	1488	1494	1496	1500	1508	1512	1512	1512
27.5°	1438	1450	1458	1462	1466	1470	1480	1488	1488	1488
30°	1398	1410	1426	1434	1438	1442	1456	1466	1468	1468
32.5°	1356	1372	1396	1408	1410	1416	1434	1446	1448	1448
35°	1320	1340	1366	1382	1386	1392	1412	1426	1428	1428
37.5°	1288	1308	1336	1358	1362	1370	1390	1408	1410	1412
40°	1252	1276	1304	1330	1338	1346	1368	1386	1390	1390
42.5°	1216	1246	1274	1304	1314	1322	1346	1364	1368	1368
45°	1178	1216	1244	1276	1288	1296	1318	1338	1344	1344
47.5°	1144	1184	1212	1244	1256	1268	1288	1308	1314	1316
50°	1106	1150	1178	1208	1224	1236	1256	1278	1284	1282
52.5°	1068	1110	1140	1172	1188	1200	1218	1242	1248	1248
55°	1028	1070	1102	1132	1148	1164	1182	1202	1210	1208
57.5°	988	1026	1060	1092	1106	1122	1140	1160	1166	1170
60°	946	980	1018	1048	1062	1078	1096	1114	1124	1122
62.5°	900	938	974	1002	1016	1032	1050	1066	1074	1078
65°	854	890	924	954	966	982	1002	1014	1024	1026
67.5°	806	842	876	908	920	934	952	964	974	976
70°	758	796	830	860	872	884	902	914	924	924
72.5°	712	750	782	812	824	834	852	864	872	874
75°	666	702	734	764	774	786	802	814	822	824
77.5°	620	658	688	716	726	736	754	764	772	772
80°	576	612	642	668	676	688	704	714	720	724
82.5°	534	568	596	620	632	640	656	666	672	676
85°	488	524	552	576	584	596	610	620	626	628
87.5°	446	478	506	534	544	552	566	576	582	586
90°	410	440	466	488	498	508	524	534	540	542
92.5°	384	414	438	460	470	478	492	502	508	510
95°	360	388	412	434	442	450	464	472	476	480
97.5°	334	364	386	406	416	422	436	444	450	452
100°	310	338	360	382	390	396	410	418	422	424
102.5°	286	314	336	356	364	370	382	390	396	398
105°	262	288	310	330	338	344	356	364	370	372
107.5°	240	264	286	304	312	318	330	338	344	346
110°	218	240	262	280	288	294	306	312	318	320



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	194	218	238	256	262	270	280	288	292	294
115°	174	196	214	232	238	244	256	262	268	268
117.5°	152	172	192	208	214	220	232	238	242	244
120°	132	150	168	184	192	196	208	214	218	220
122.5°	112	130	148	162	168	174	184	190	194	196
125°	92	110	126	140	146	152	160	166	170	172
127.5°	74	90	106	118	124	130	138	144	148	150
130°	56	70	86	98	104	108	116	122	126	128
132.5°	38	52	66	78	84	88	96	100	104	106
135°	24	36	48	58	64	68	76	80	84	84
137.5°	12	22	32	40	44	50	56	60	62	64
140°	4	10	18	24	28	32	38	42	44	46
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)