

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: P256889

Luminaire Tested: **HGL-S-BA-40L835-UNV-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256889
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1803-682-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: HGL-S-BA-40L835-UNV-8
Description: HUGO 8 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH AISLE OPTIC
Light Source: (336) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7640.5 lumens
Efficiency: N/A
Efficacy: 131.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.77 / 1.65
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 8' x H: 0.01')
CIE Type: Direct

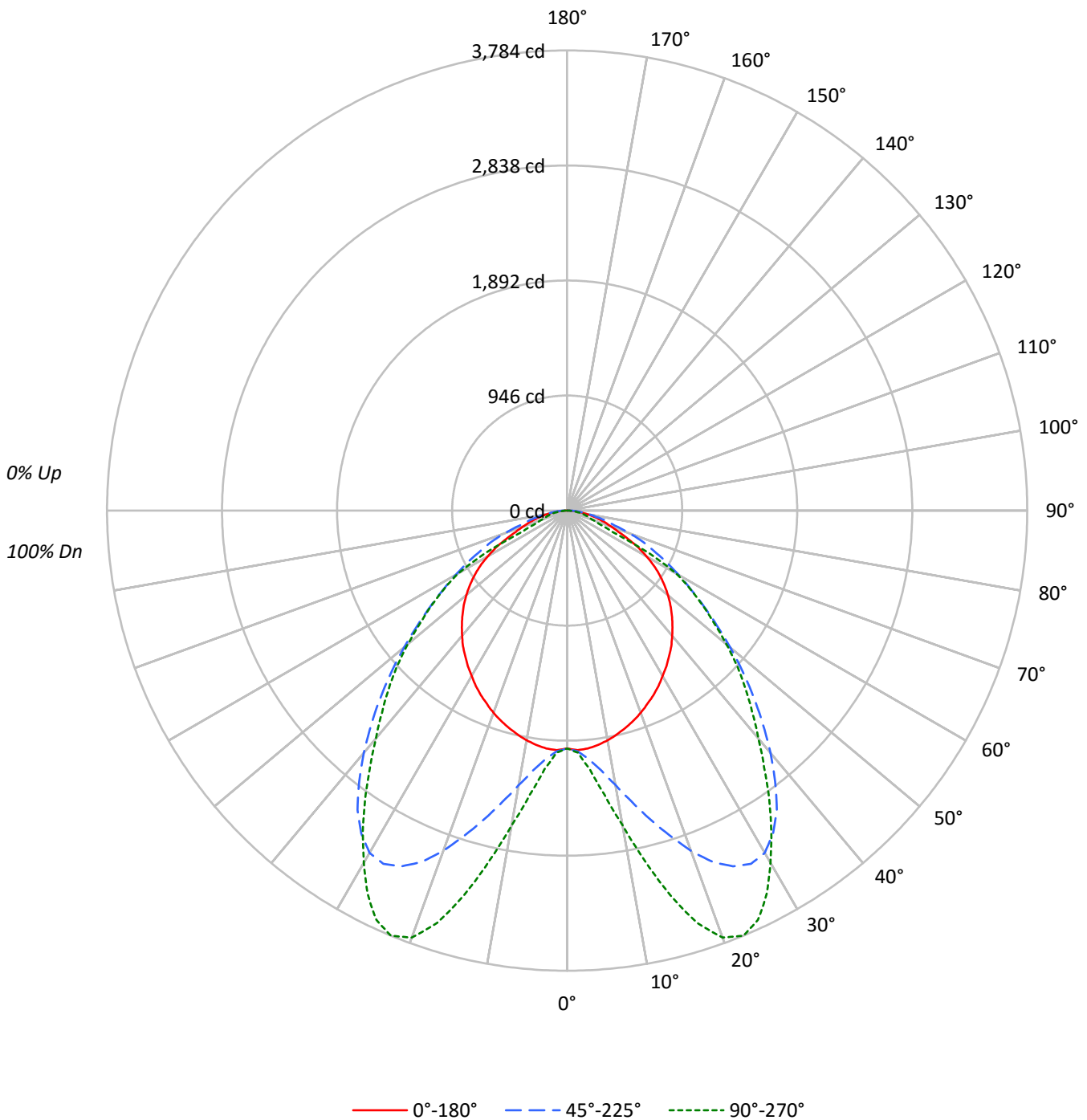
Input Watts (W): 58
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73					73			
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63					63			
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54					54			
5	78	66	57	51	76	65	57	51	63	55	50	61	54	50	59	53	49	47					47			
6	72	59	51	44	70	58	50	44	57	49	44	55	48	44	53	48	43	41					41			
7	67	54	45	39	65	53	45	39	51	44	39	50	43	39	49	43	38	36					36			
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	32					32			
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29					29			
10	54	41	34	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11484	11484	11484
5°	11574	12049	12541
10°	11432	13588	15560
15°	11241	15815	19670
20°	11054	18382	22978
25°	10851	20607	23580
30°	10636	21637	22114
35°	10470	21077	20141
40°	10290	19425	18100
45°	10101	17447	16517
50°	9868	15402	14847
55°	9503	13435	13124
60°	8858	11798	11310
65°	7676	10224	5056
70°	6604	8621	3495
75°	6051	6693	3160
80°	5439	5444	2765
85°	4516	4745	1888



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.7	2.7
10°-20°	739.6	9.7
20°-30°	1338.7	17.5
30°-40°	1606.6	21.0
40°-50°	1521.9	19.9
50°-60°	1192.5	15.6
60°-70°	665.5	8.7
70°-80°	282.0	3.7
80°-90°	87.7	1.1
90°-100°	3.2	0.0
100°-110°	0.0	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°	2281.0	29.9
0°-40°	3887.6	50.9
0°-60°	6602.0	86.4
0°-90°	7637.3	100.0
90°-120°	3.2	0.0
90°-150°	3.2	0.0
90°-180°	3.0	0.0
0°-180°	7640.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1956	1956	1956	1956	1956	
5°	1964	1972	2050	2118	2136	186
15°	1850	2072	2624	3106	3274	522
25°	1676	2202	3228	3622	3714	772
35°	1462	2252	3006	2880	2896	915
45°	1218	2062	2168	2016	2076	939
55°	930	1498	1372	1328	1362	828
65°	554	692	786	632	398	554
75°	268	278	330	234	162	285
85°	68	78	96	74	42	76
90°	0	16	30	20	0	4
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
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°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1956	1956	1956	1956	1956	1956	1956	1956	1956	1956	1956
2.5°	1972	1970	1964	1956	1958	1960	1960	1962	1964	1970	1982
5°	1964	1960	1958	1956	1966	1972	1978	1990	2004	2026	2050
7.5°	1944	1944	1948	1956	1978	1992	2004	2034	2068	2110	2156
10°	1918	1922	1934	1952	1992	2014	2038	2088	2146	2216	2292
12.5°	1886	1894	1914	1948	2008	2042	2078	2154	2240	2340	2452
15°	1850	1860	1892	1942	2024	2072	2122	2226	2344	2478	2624
17.5°	1812	1826	1870	1940	2046	2106	2170	2306	2458	2620	2800
20°	1770	1790	1846	1936	2066	2140	2218	2388	2574	2766	2976
22.5°	1722	1748	1818	1928	2086	2174	2266	2464	2680	2898	3126
25°	1676	1704	1786	1918	2102	2202	2308	2534	2776	3006	3228
27.5°	1626	1658	1756	1908	2114	2226	2344	2592	2846	3074	3274
30°	1570	1612	1722	1892	2120	2244	2372	2638	2890	3090	3250
32.5°	1518	1564	1684	1874	2122	2254	2390	2652	2890	3054	3150
35°	1462	1512	1646	1852	2114	2252	2388	2648	2848	2960	3006
37.5°	1406	1460	1606	1822	2096	2238	2374	2608	2762	2822	2810
40°	1344	1404	1554	1784	2064	2202	2332	2538	2636	2646	2602
42.5°	1282	1344	1502	1734	2010	2142	2262	2426	2472	2450	2382
45°	1218	1282	1440	1674	1942	2062	2162	2280	2280	2240	2168
47.5°	1152	1214	1374	1604	1854	1958	2040	2110	2078	2028	1956
50°	1082	1144	1300	1520	1740	1826	1894	1920	1870	1814	1750
52.5°	1008	1070	1212	1414	1606	1670	1720	1718	1658	1608	1552
55°	930	986	1114	1288	1446	1498	1528	1504	1448	1402	1372
57.5°	848	894	1004	1146	1264	1304	1322	1290	1250	1222	1206
60°	756	794	872	982	1068	1096	1108	1086	1072	1064	1060
62.5°	660	678	728	800	872	892	906	910	908	912	922
65°	554	560	576	612	668	692	718	746	762	778	786
67.5°	456	458	466	478	500	526	548	590	626	656	676
70°	386	384	386	392	404	414	424	454	492	542	546
72.5°	326	324	326	330	334	338	344	356	378	408	414
75°	268	268	268	272	276	278	282	286	294	316	330
77.5°	214	212	216	218	220	224	226	230	234	242	252
80°	162	160	162	166	168	172	172	178	180	186	190
82.5°	114	112	114	118	118	122	124	128	132	136	140
85°	68	68	70	72	74	78	80	86	90	94	96
87.5°	30	30	32	34	38	42	44	48	52	58	58
90°	0	2	6	10	12	16	16	22	24	28	30
92.5°	0	0	0	0	0	0	2	2	4	6	8
95°	0	0	0	0	0	0	0	0	0	0	0
97.5°	0	0	0	0	0	0	0	0	0	0	0
100°	0	0	0	0	0	0	0	0	0	0	0
102.5°	0	0	0	0	0	0	0	0	0	0	0
105°	0	0	0	0	0	0	0	0	0	0	0
107.5°	0	0	0	0	0	0	0	0	0	0	0
110°	0	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	0	0	0	0	0	0	0	0	0	0	0
115°	0	0	0	0	0	0	0	0	0	0	0
117.5°	0	0	0	0	0	0	0	0	0	0	0
120°	0	0	0	0	0	0	0	0	0	0	0
122.5°	0	0	0	0	0	0	0	0	0	0	0
125°	0	0	0	0	0	0	0	0	0	0	0
127.5°	0	0	0	0	0	0	0	0	0	0	0
130°	0	0	0	0	0	0	0	0	0	0	0
132.5°	0	0	0	0	0	0	0	0	0	0	0
135°	0	0	0	0	0	0	0	0	0	0	0
137.5°	0	0	0	0	0	0	0	0	0	0	0
140°	0	0	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°	1956	1956	1956	1956	1956	1956	1956	1956	1956	1956
2.5°	2000	1988	1996	1998	2000	1996	1992	1996	1992	1992
5°	2080	2078	2098	2112	2118	2118	2130	2138	2140	2136
7.5°	2206	2218	2258	2286	2302	2310	2332	2344	2360	2358
10°	2372	2410	2470	2510	2538	2552	2584	2606	2632	2630
12.5°	2554	2624	2708	2772	2814	2840	2882	2922	2946	2948
15°	2760	2856	2970	3052	3106	3140	3198	3238	3278	3274
17.5°	2962	3078	3216	3324	3374	3406	3476	3518	3556	3556
20°	3142	3276	3416	3516	3564	3596	3656	3698	3726	3736
22.5°	3286	3410	3528	3614	3644	3670	3716	3750	3768	3784
25°	3366	3466	3546	3606	3622	3636	3662	3688	3692	3714
27.5°	3368	3442	3486	3508	3510	3510	3528	3538	3546	3554
30°	3296	3330	3338	3340	3330	3324	3336	3338	3344	3344
32.5°	3152	3160	3146	3124	3118	3106	3114	3110	3120	3126
35°	2968	2954	2918	2902	2880	2874	2880	2876	2882	2896
37.5°	2758	2728	2698	2670	2654	2638	2644	2650	2658	2662
40°	2542	2502	2470	2442	2426	2414	2424	2430	2448	2448
42.5°	2324	2280	2248	2230	2218	2208	2224	2228	2250	2254
45°	2108	2070	2044	2026	2016	2020	2036	2046	2066	2076
47.5°	1910	1878	1850	1842	1842	1846	1862	1872	1888	1900
50°	1716	1692	1674	1664	1666	1672	1686	1694	1710	1710
52.5°	1526	1510	1502	1490	1490	1488	1502	1510	1522	1524
55°	1360	1346	1338	1330	1328	1332	1340	1346	1360	1362
57.5°	1202	1196	1190	1184	1182	1184	1188	1192	1200	1202
60°	1058	1056	1048	1042	1040	1038	1036	1034	1038	1036
62.5°	926	920	914	902	896	880	860	816	780	760
65°	796	792	764	682	632	568	500	434	412	398
67.5°	670	604	504	432	406	382	346	310	290	278
70°	482	426	380	340	322	308	280	254	236	228
72.5°	390	354	324	294	280	264	236	210	194	186
75°	326	304	274	246	234	222	202	182	168	162
77.5°	258	246	228	206	196	188	170	156	142	136
80°	190	186	174	158	150	144	130	118	106	102
82.5°	140	136	126	114	110	104	94	84	76	72
85°	96	94	86	78	74	70	60	52	46	42
87.5°	60	58	54	46	42	38	30	24	18	16
90°	30	30	28	22	20	18	12	6	2	0
92.5°	8	8	8	6	6	4	2	0	0	0
95°	0	0	0	0	0	0	0	0	0	0
97.5°	0	0	0	0	0	0	0	0	0	0
100°	0	0	0	0	0	0	0	0	0	0
102.5°	0	0	0	0	0	0	0	0	0	0
105°	0	0	0	0	0	0	0	0	0	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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	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)