

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: INVUE

Report Number: P401696

Luminaire Tested: **ENT-SA1E-740-U-T4FT**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401696
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/20/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENT-SA1E-740-U-T4FT
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6735 lumens
Efficiency: N/A
Efficacy: 117.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

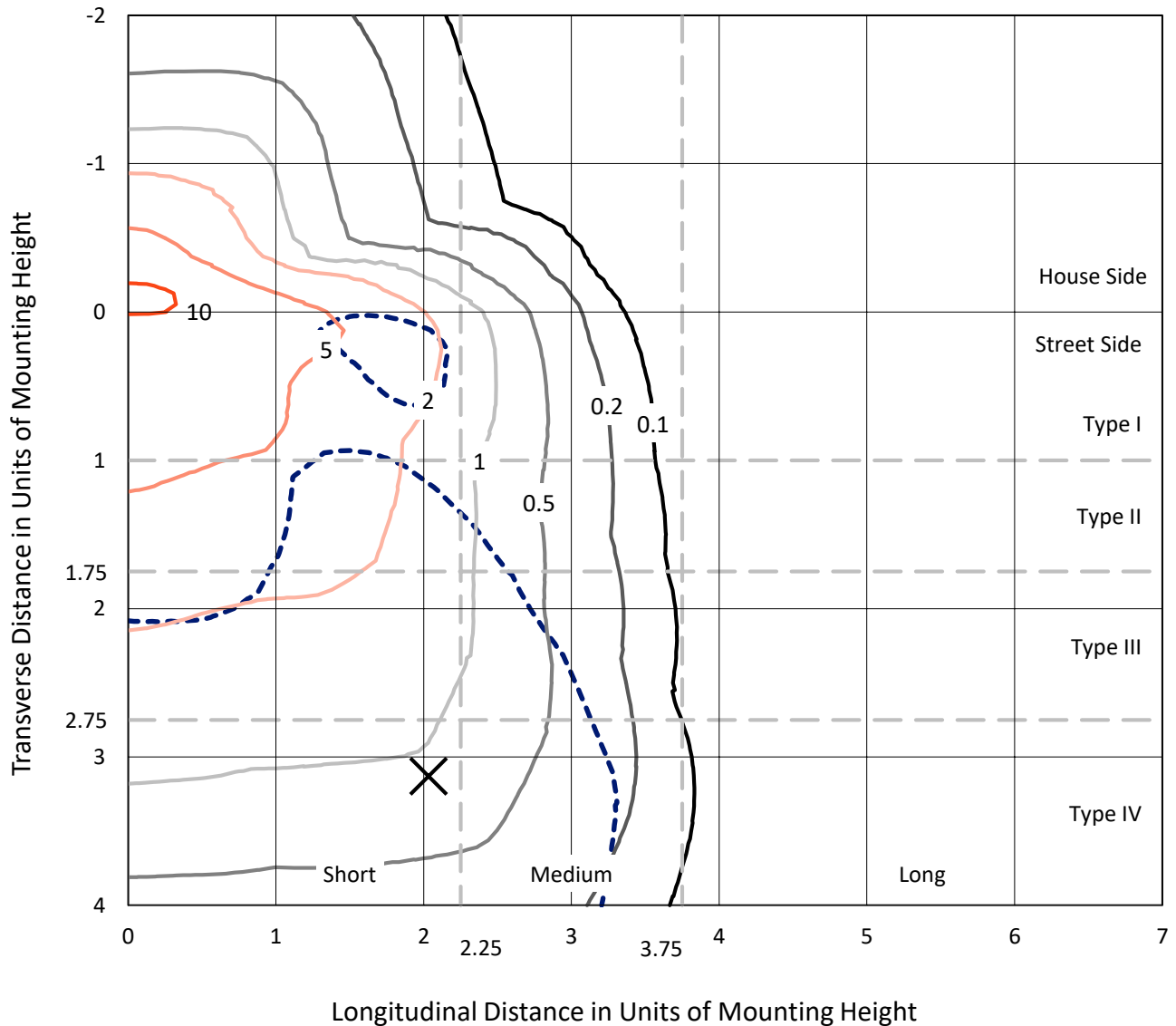
Input Watts (W): 57.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P401696
 CATALOG NUMBER: ENT-SA1E-740-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

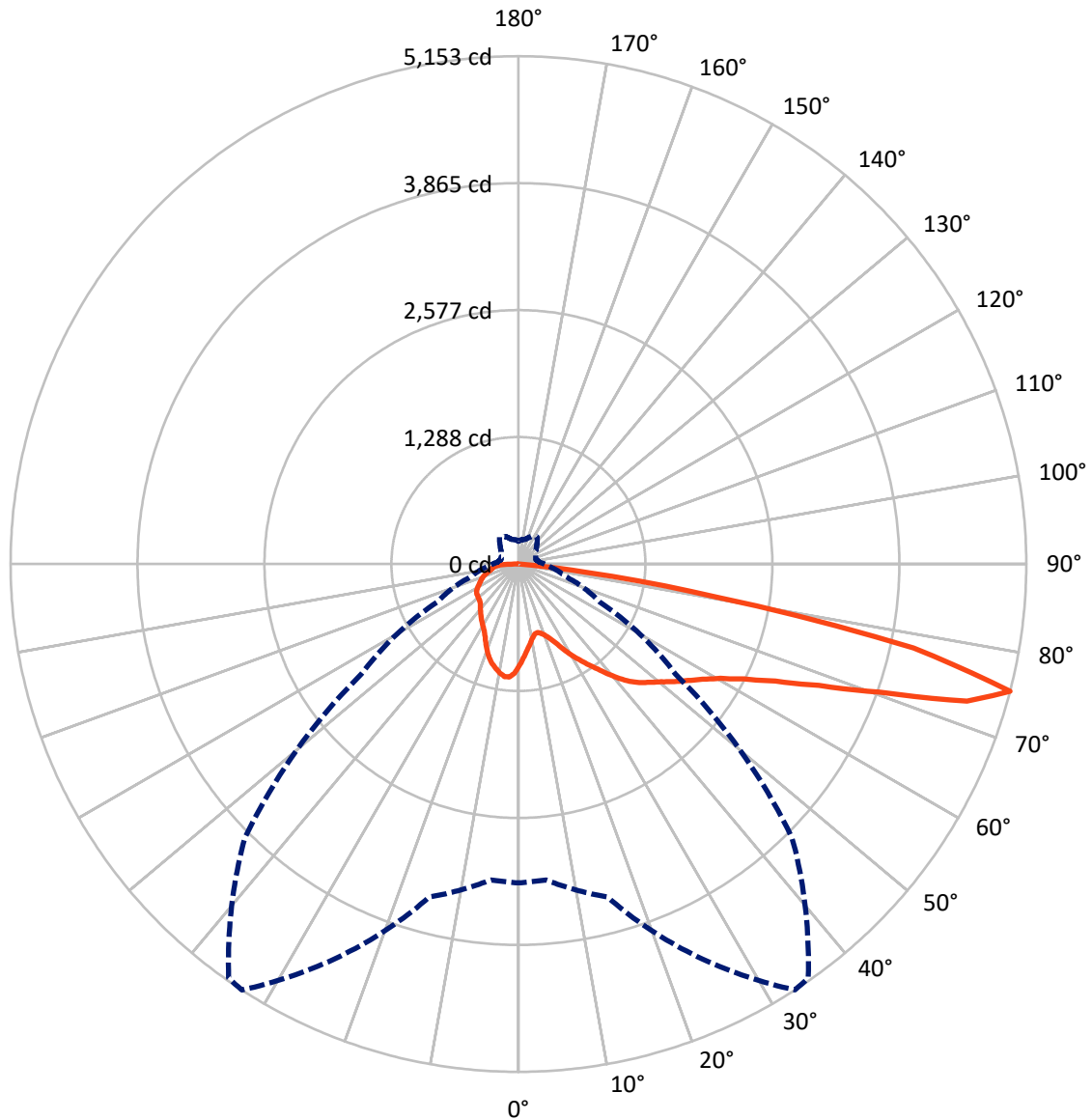
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P401696
CATALOG NUMBER: ENT-SA1E-740-U-T4FT

Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

REPORT NUMBER: P401696

CATALOG NUMBER: ENT-SA1E-740-U-T4FT

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1636.1	0.0	1636.1
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	5098.9	0.0	5098.9
	% Fixture	75.7	0.0	75.7
Total	Lumens	6735.0	0.0	6735.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.4	1.4
10°-20°	271.2	4.0
20°-30°	450.9	6.7
30°-40°	672.6	10.0
40°-50°	939.6	14.0
50°-60°	1254.3	18.6
60°-70°	1555.2	23.1
70°-80°	1344.6	20.0
80°-90°	150.3	2.2
90°-100°	0.0	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°-90°	6735.0	100.0
0°-180°	6735.0	100.0



REPORT NUMBER: P401696

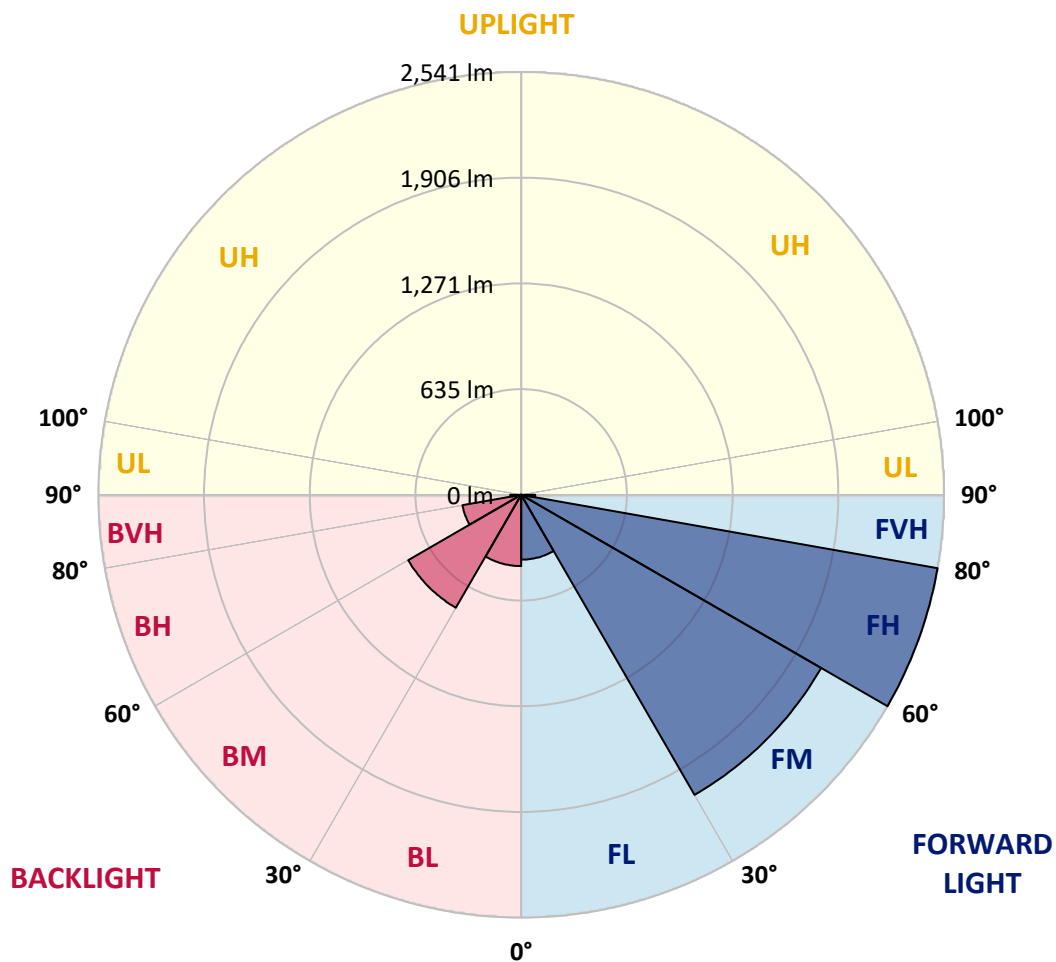
CATALOG NUMBER: ENT-SA1E-740-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	389.9	5.8			
FM	(30°-60°)	2082.5	30.9			
FH	(60°-80°)	2541.5	37.7			G2/5000
FVH	(80°-90°)	84.9	1.3			G1/100
BL	(0°-30°)	428.5	6.4	B1/500		
BM	(30°-60°)	784.0	11.6	B1/1000		
BH	(60°-80°)	358.3	5.3	B1/500		G1/500
BVH	(80°-90°)	65.4	1.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





REPORT NUMBER: P401696

CATALOG NUMBER: ENT-SA1E-740-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	1032	1032	1032	1032	1032	1032	1032	1032	1032	1032	1032
2.5°	936	938	944	951	955	955	966	979	995	1009	1024
5°	858	861	866	875	886	888	910	933	962	993	1023
7.5°	781	787	797	809	826	830	861	892	932	979	1028
10°	722	726	731	748	769	776	817	856	911	969	1034
12.5°	706	706	706	714	731	737	780	830	892	962	1043
15°	729	728	717	711	721	726	763	812	882	964	1060
17.5°	781	778	752	732	739	742	766	808	879	972	1085
20°	849	842	802	772	771	773	791	820	884	986	1112
22.5°	939	935	876	830	822	822	830	848	897	1002	1149
25°	1055	1044	973	911	893	888	887	887	920	1026	1195
27.5°	1174	1161	1089	1005	981	972	956	944	950	1052	1250
30°	1281	1263	1202	1115	1079	1065	1036	1011	995	1088	1323
32.5°	1340	1333	1291	1212	1171	1165	1117	1084	1056	1135	1421
35°	1419	1410	1383	1318	1269	1254	1218	1179	1134	1198	1545
37.5°	1492	1487	1477	1432	1380	1365	1332	1291	1230	1291	1684
40°	1566	1560	1556	1540	1503	1493	1477	1429	1347	1393	1821
42.5°	1674	1661	1619	1618	1621	1629	1630	1577	1475	1520	1941
45°	1815	1779	1685	1682	1717	1738	1789	1744	1608	1650	2075
47.5°	1887	1850	1753	1747	1793	1824	1950	1906	1746	1796	2214
50°	1922	1898	1813	1832	1879	1909	2103	2068	1889	1954	2389
52.5°	1971	1931	1871	1911	1981	2012	2240	2234	2010	2126	2581
55°	1954	1933	1944	1998	2086	2132	2378	2378	2133	2310	2771
57.5°	1968	1954	2045	2093	2204	2270	2544	2500	2237	2464	2899
60°	2087	2047	2118	2213	2356	2420	2734	2628	2322	2597	2922
62.5°	2297	2265	2272	2381	2566	2640	2922	2741	2379	2653	2836
65°	2645	2630	2544	2610	2865	2932	3157	2839	2363	2611	2609
67.5°	3113	3053	2937	2996	3290	3358	3440	2876	2259	2360	2097
70°	3501	3451	3398	3553	3891	3928	3735	2841	2006	1847	1406
72.5°	3748	3712	3761	4217	4758	4688	4026	2596	1565	1131	703
75°	3235	3218	3498	4423	5153	5127	3925	1943	908	498	320
77.5°	1627	1812	2107	3138	4100	4105	2860	934	382	279	220
80°	458	464	703	1294	2047	2181	1082	317	218	208	164
82.5°	109	101	180	383	687	715	325	114	122	130	101
85°	1	1	1	1	1	2	12	12	29	37	29
87.5°	0	0	0	1	1	1	0	0	0	0	0
90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P401696

CATALOG NUMBER: ENT-SA1E-740-U-T4FT

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1032	1032	1032	1032	1032	1032	1032	1032	1032	1032	1032
2.5°	1031	1041	1057	1071	1083	1092	1106	1108	1112	1114	1116
5°	1040	1059	1089	1115	1133	1138	1150	1149	1150	1150	1149
7.5°	1052	1078	1120	1149	1159	1156	1153	1142	1133	1129	1124
10°	1067	1097	1146	1167	1162	1146	1127	1107	1091	1083	1081
12.5°	1082	1121	1167	1173	1153	1124	1092	1070	1049	1038	1038
15°	1107	1150	1184	1172	1136	1099	1055	1025	1001	986	985
17.5°	1137	1183	1202	1167	1115	1063	1010	971	940	925	916
20°	1174	1217	1211	1151	1084	1020	954	907	875	859	856
22.5°	1216	1252	1214	1125	1042	960	888	841	820	808	809
25°	1267	1295	1215	1094	982	881	818	796	793	788	790
27.5°	1331	1340	1211	1052	905	798	761	770	778	775	777
30°	1407	1394	1202	991	810	722	724	744	755	752	753
32.5°	1496	1448	1185	917	720	676	692	712	723	723	724
35°	1596	1513	1152	821	657	648	662	678	685	681	684
37.5°	1701	1569	1099	714	610	626	634	638	637	631	628
40°	1799	1613	1004	608	571	603	607	596	583	572	565
42.5°	1874	1636	872	531	534	577	580	558	533	516	512
45°	1951	1644	741	469	494	551	559	529	495	475	472
47.5°	2039	1664	612	426	460	533	546	509	471	441	436
50°	2157	1702	515	393	436	524	542	493	445	412	408
52.5°	2307	1758	425	367	417	510	536	477	426	386	380
55°	2436	1779	367	345	397	493	531	471	405	360	353
57.5°	2495	1719	326	323	376	472	521	451	382	347	341
60°	2468	1570	295	303	352	445	495	431	366	337	331
62.5°	2348	1398	272	284	325	411	465	413	352	326	318
65°	2137	1209	255	267	301	378	441	392	336	310	303
67.5°	1744	962	237	250	281	351	419	375	318	301	295
70°	1154	647	220	233	261	325	396	357	301	290	282
72.5°	530	348	202	215	238	296	367	330	278	271	259
75°	262	214	180	192	210	261	333	307	257	245	231
77.5°	191	160	155	167	182	231	297	283	236	219	211
80°	142	124	130	142	156	209	278	265	218	201	195
82.5°	87	83	100	114	131	192	265	242	196	180	173
85°	25	30	51	74	93	155	247	212	165	138	133
87.5°	0	3	16	34	55	103	190	166	126	102	98
90°	0	0	0	0	0	0	0	0	0	0	0

(END OF REPORT)