

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: P140440

Luminaire Tested: **ECM-E03-LED-E1-5WQ**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P140440
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33687)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ECM-E03-LED-E1-5WQ
Description: EPIC CLASSICAL MEDIUM DECORATIVE LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (63) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8962 lumens
Efficiency: N/A
Efficacy: 119.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G2

Input Watts (W): 75.2
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

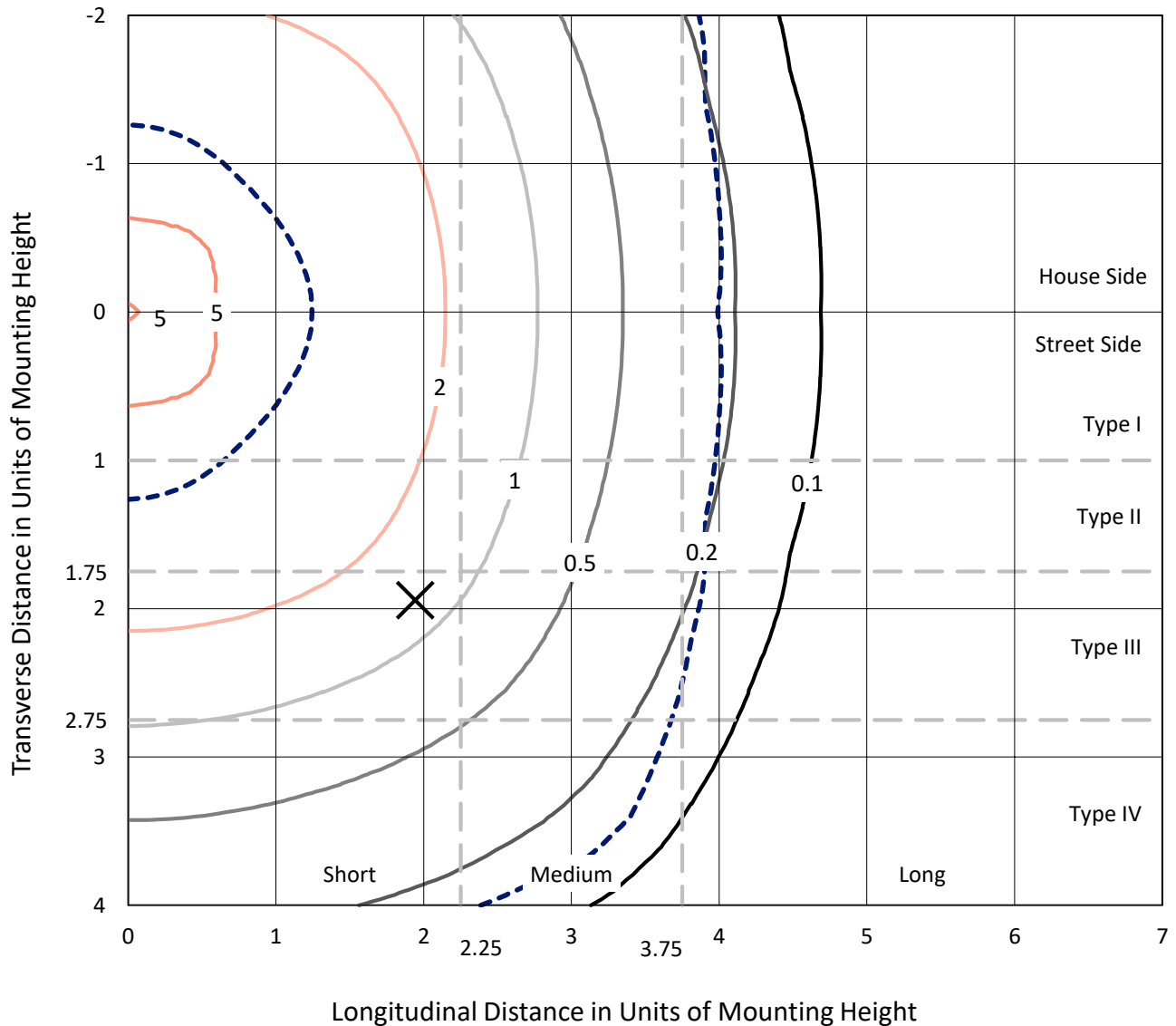


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Iso-Footcandle Lines of Horizontal Illumination

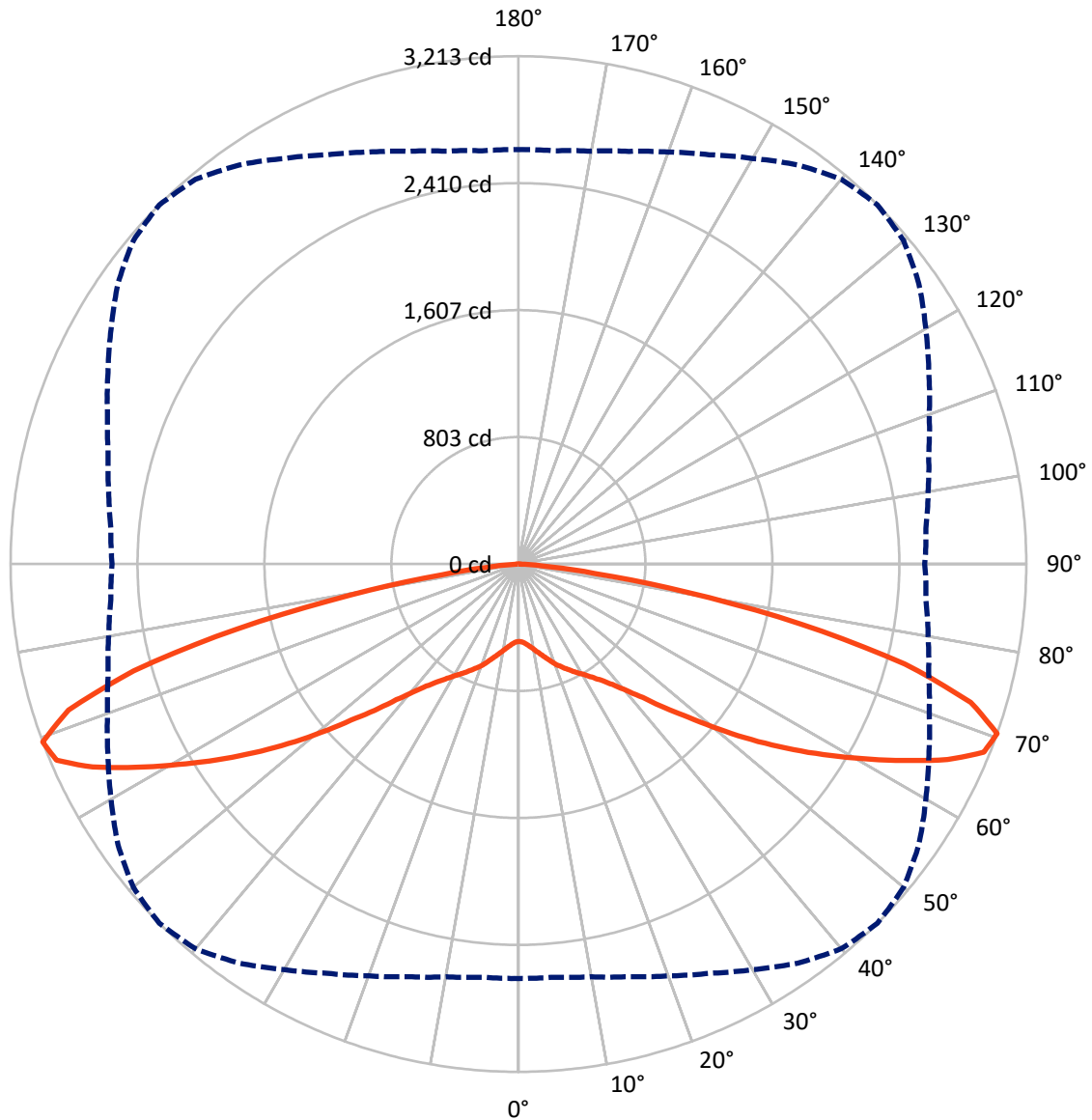
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.6 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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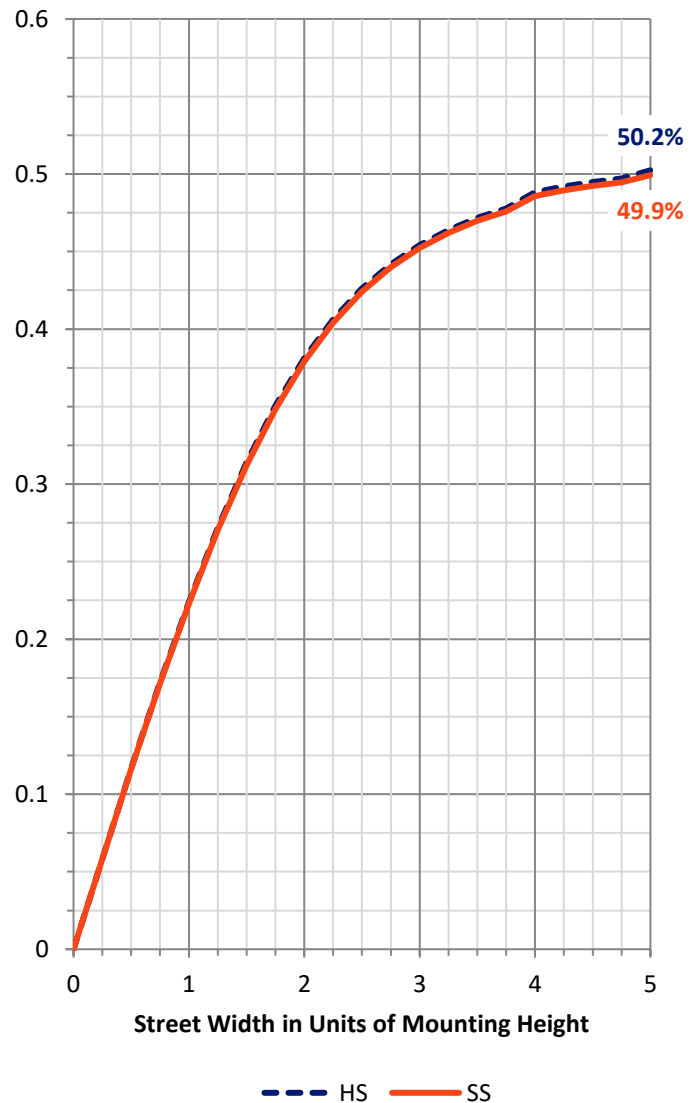
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4481.0	0.0	4481.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4481.0	0.0	4481.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	8962.0	0.0	8962.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.7	0.6
10°-20°	173.5	1.9
20°-30°	341.0	3.8
30°-40°	564.2	6.3
40°-50°	987.6	11.0
50°-60°	1761.6	19.7
60°-70°	2719.7	30.3
70°-80°	2152.8	24.0
80°-90°	211.9	2.4
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°	8962.0	100.0
0°-180°	8962.0	100.0



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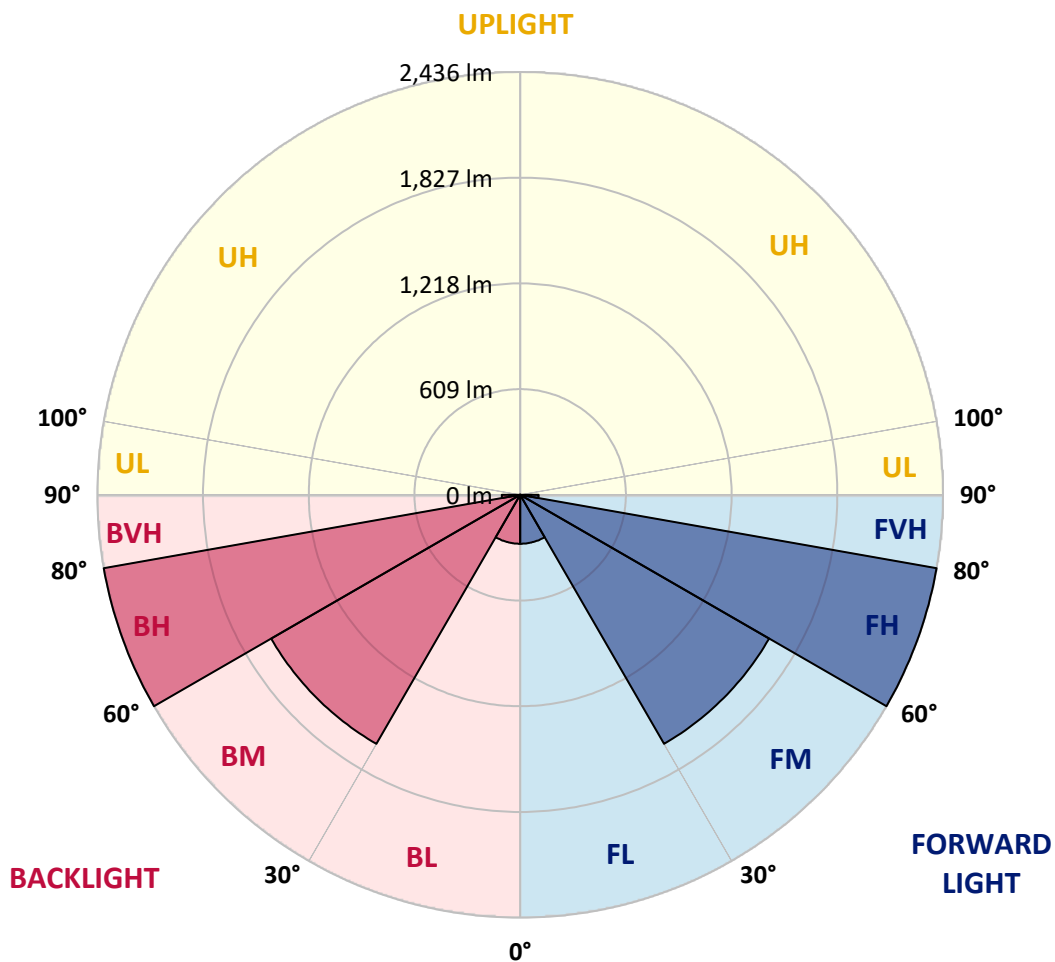
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	282.1	3.1			
FM	(30°-60°)	1656.7	18.5			
FH	(60°-80°)	2436.2	27.2			G2/5000
FVH	(80°-90°)	105.9	1.2			G2/225
BL	(0°-30°)	282.1	3.1	B1/500		
BM	(30°-60°)	1656.7	18.5	B2/2500		
BH	(60°-80°)	2436.2	27.2	B3/2500		G2/5000
BVH	(80°-90°)	105.9	1.2			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	490	490	490	490	490	490	490	490	490	490	490
2.5°	496	496	495	495	495	495	494	494	495	494	494
5°	508	509	509	508	508	508	508	508	509	508	508
7.5°	526	527	527	526	526	526	526	526	527	527	525
10°	548	549	549	548	548	549	549	549	550	550	549
12.5°	574	575	576	575	576	576	577	578	578	578	576
15°	604	607	605	605	606	607	607	610	609	608	607
17.5°	639	638	638	639	640	639	640	643	642	641	640
20°	672	672	672	671	673	673	674	675	675	677	674
22.5°	704	704	703	703	705	705	707	709	709	709	707
25°	734	734	735	734	735	736	738	740	741	741	741
27.5°	761	764	763	764	766	768	770	773	775	776	773
30°	795	795	794	795	797	800	804	809	809	810	810
32.5°	831	832	830	832	835	839	843	847	849	853	852
35°	878	875	876	879	881	885	890	897	901	903	901
37.5°	932	931	933	933	940	944	953	959	962	967	965
40°	1000	1004	1005	1008	1012	1020	1030	1040	1046	1050	1051
42.5°	1092	1094	1090	1101	1112	1117	1129	1143	1152	1155	1156
45°	1205	1205	1211	1218	1232	1242	1255	1278	1286	1297	1297
47.5°	1340	1344	1344	1360	1371	1391	1416	1435	1452	1447	1464
50°	1496	1499	1510	1519	1538	1561	1584	1612	1637	1640	1643
52.5°	1659	1663	1672	1693	1716	1742	1784	1808	1832	1845	1843
55°	1846	1844	1859	1875	1909	1944	1979	2013	2038	2056	2055
57.5°	2042	2049	2066	2086	2115	2146	2188	2222	2263	2274	2258
60°	2270	2263	2280	2311	2337	2377	2414	2458	2487	2500	2495
62.5°	2503	2497	2510	2550	2581	2610	2661	2709	2733	2738	2729
65°	2674	2676	2697	2732	2781	2825	2882	2940	2978	2984	2964
67.5°	2714	2718	2747	2792	2853	2926	3011	3097	3162	3176	3147
70°	2622	2624	2652	2703	2773	2857	2963	3082	3177	3213	3181
72.5°	2433	2441	2464	2507	2562	2645	2747	2853	2947	2993	2993
75°	2092	2110	2121	2135	2183	2250	2333	2417	2500	2526	2453
77.5°	1493	1463	1470	1548	1537	1613	1705	1765	1839	1828	1723
80°	685	668	707	759	825	876	975	985	1070	1075	999
82.5°	137	144	172	212	264	321	373	417	475	486	451
85°	43	47	59	65	68	78	89	120	138	143	134
87.5°	9	14	23	26	27	26	26	25	20	16	19
90°	0	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	490	490	490	490	490	490	490	490
2.5°	493	493	494	494	494	493	492	493
5°	507	507	507	507	505	505	504	504
7.5°	525	524	524	523	522	522	521	522
10°	549	547	546	545	544	544	543	542
12.5°	575	574	573	571	570	568	568	568
15°	605	604	603	600	600	597	598	598
17.5°	638	636	633	632	631	628	628	628
20°	672	668	666	664	664	661	660	660
22.5°	705	701	697	695	693	692	690	689
25°	738	734	730	727	723	721	719	719
27.5°	771	767	761	757	753	749	747	748
30°	805	801	795	790	785	781	779	778
32.5°	848	843	836	831	822	818	816	817
35°	898	891	886	878	871	866	863	863
37.5°	962	956	951	943	933	927	923	926
40°	1045	1040	1030	1018	1010	1005	1001	1002
42.5°	1151	1141	1132	1125	1113	1106	1095	1099
45°	1285	1274	1265	1254	1243	1229	1225	1217
47.5°	1447	1439	1419	1409	1395	1375	1365	1357
50°	1626	1611	1597	1572	1556	1533	1524	1521
52.5°	1828	1803	1780	1757	1725	1703	1685	1689
55°	2028	1999	1966	1941	1916	1889	1870	1859
57.5°	2239	2207	2172	2136	2115	2083	2071	2065
60°	2456	2427	2392	2359	2330	2293	2273	2265
62.5°	2696	2656	2614	2573	2541	2514	2493	2479
65°	2917	2862	2819	2767	2732	2693	2667	2662
67.5°	3082	2997	2922	2855	2801	2753	2720	2707
70°	3093	2976	2865	2766	2687	2632	2588	2571
72.5°	2879	2734	2584	2487	2403	2327	2296	2289
75°	2342	2221	2096	1986	1928	1890	1864	1826
77.5°	1627	1516	1449	1326	1304	1273	1247	1222
80°	911	814	739	662	615	589	562	547
82.5°	409	336	267	207	171	135	101	107
85°	102	86	66	55	50	46	37	33
87.5°	19	18	16	16	17	14	8	7
90°	0	0	0	0	0	0	0	0

(END OF REPORT)