

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: P140600

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P140600
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33688)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ECM-E03-LED-E1-5XQ
Description: EPIC CLASSICAL MEDIUM DECORATIVE LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (63) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8944.6 lumens
Efficiency: N/A
Efficacy: 118.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B3 - U0 - G3

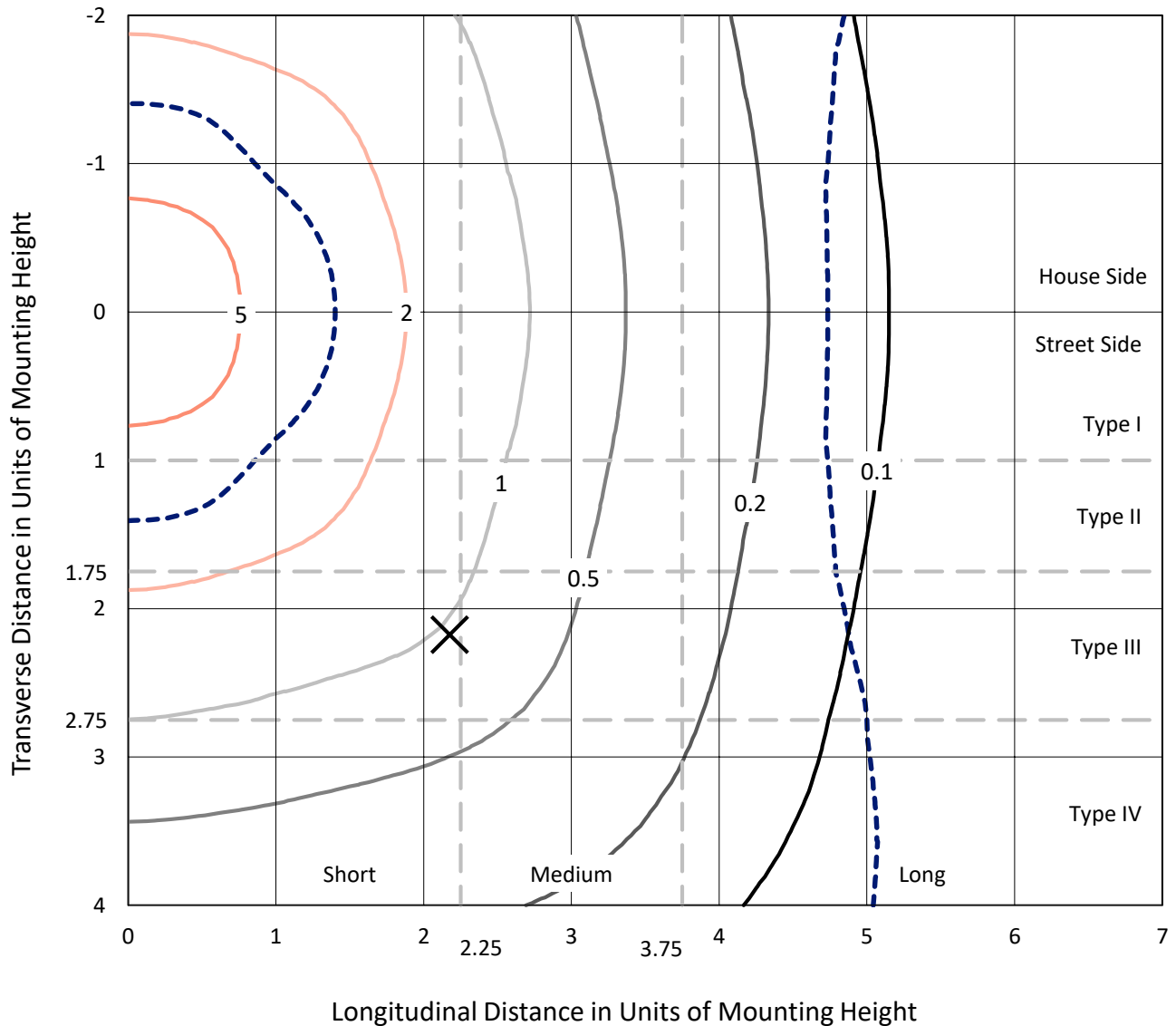
Input Watts (W): 75.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P140600
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

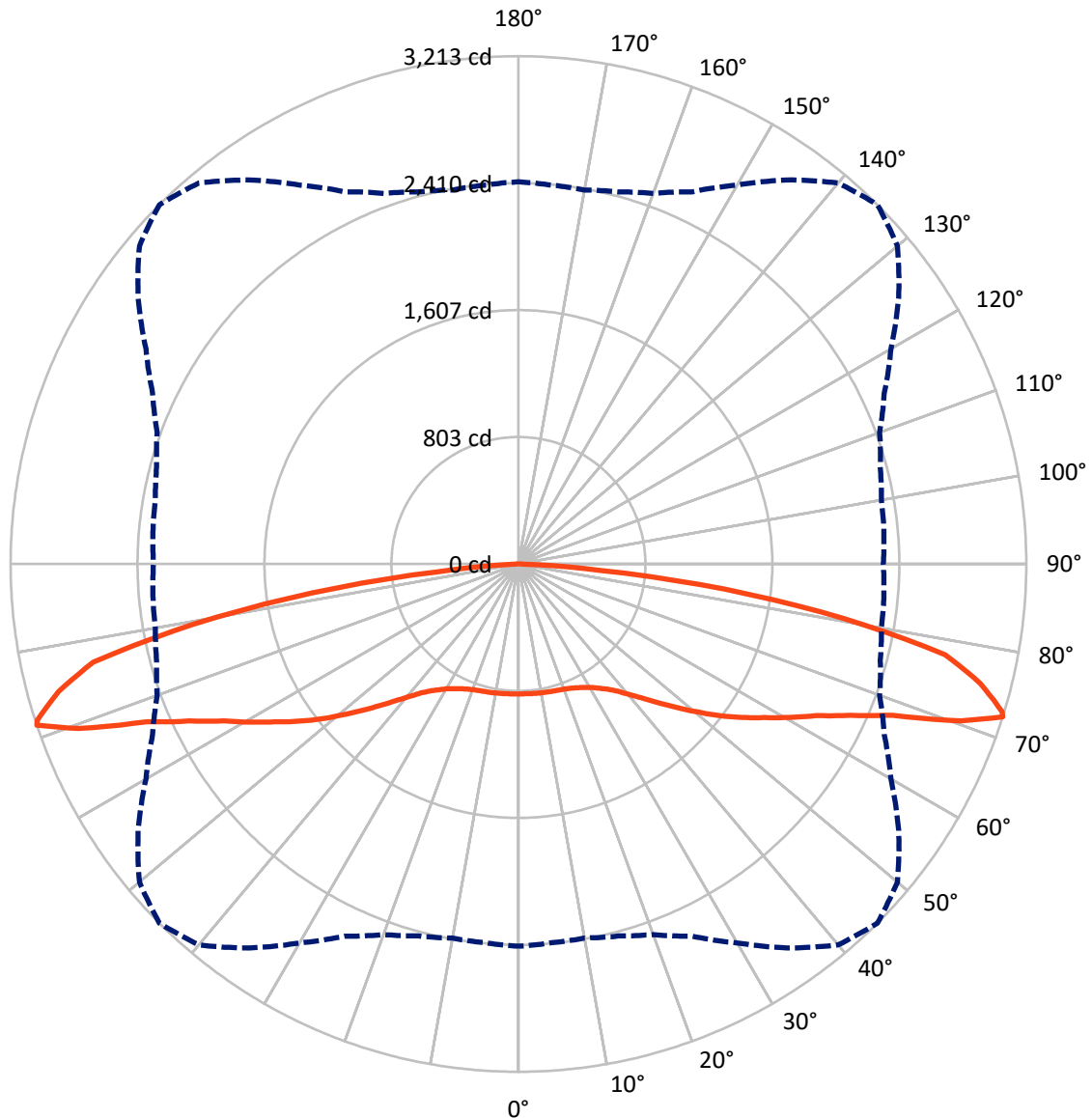


Based on 10 foot mounting height. Maximum calculated value = 8.2 fc
 Type V - Short - Non-Cutoff

REPORT NUMBER: P140600

CATALOG NUMBER: ECM-E03-LED-E1-5XQ

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4472.3	0.0	4472.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4472.3	0.0	4472.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	8944.6	0.0	8944.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.9	0.9
10°-20°	237.3	2.7
20°-30°	401.5	4.5
30°-40°	610.9	6.8
40°-50°	967.1	10.8
50°-60°	1482.1	16.6
60°-70°	2175.8	24.3
70°-80°	2468.2	27.6
80°-90°	522.9	5.8
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°	8944.6	100.0
0°-180°	8944.6	100.0



REPORT NUMBER: P140600

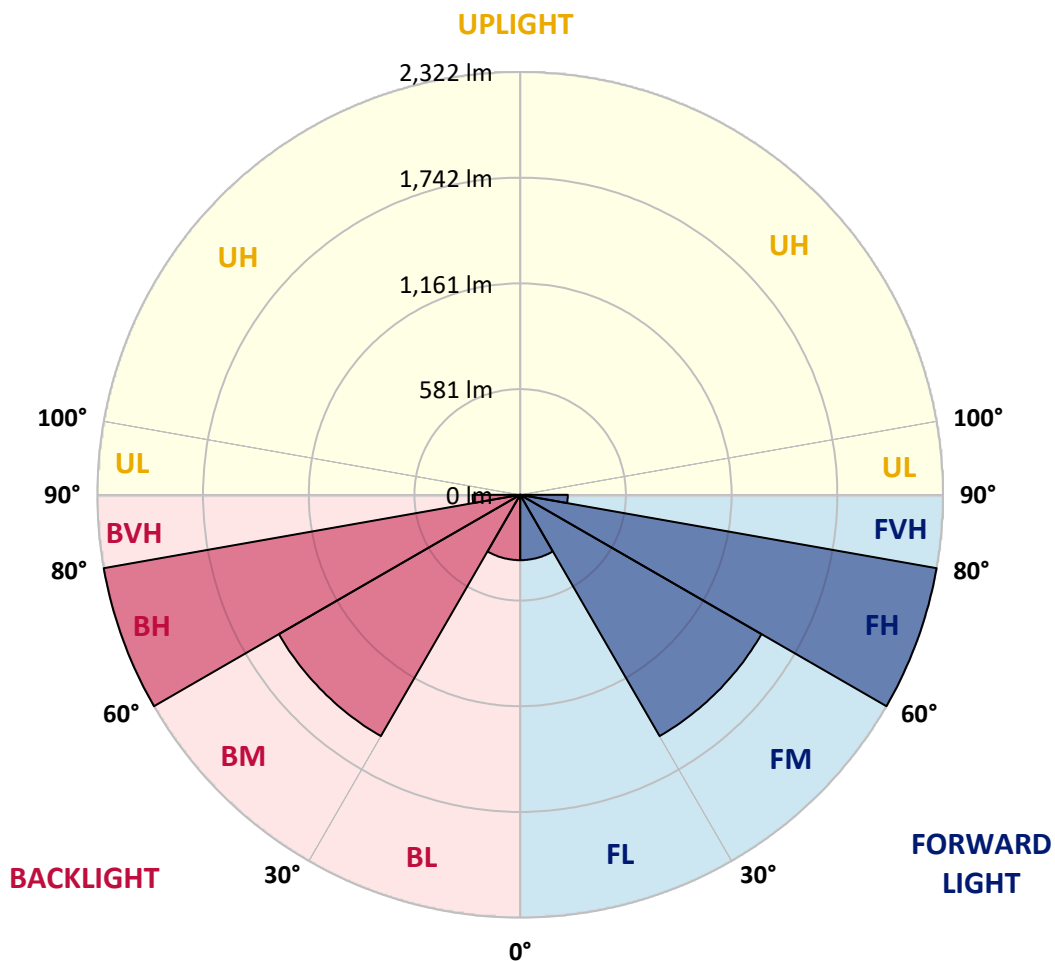
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	358.8	4.0			
FM (30°-60°)	1530.0	17.1			
FH (60°-80°)	2322.0	26.0			G2/5000
FVH (80°-90°)	261.4	2.9			G3/500
BL (0°-30°)	358.8	4.0	B1/500		
BM (30°-60°)	1530.0	17.1	B2/2500		
BH (60°-80°)	2322.0	26.0	B3/2500		G2/5000
BVH (80°-90°)	261.4	2.9			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type V Short





REPORT NUMBER: P140600

CATALOG NUMBER: ECM-E03-LED-E1-5XQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	822	822	822	822	822	822	822	822	822	822	822
2.5°	825	826	825	824	824	823	823	823	824	822	822
5°	827	828	827	825	825	825	824	824	825	824	824
7.5°	830	831	830	828	828	827	826	826	828	826	826
10°	833	835	833	831	831	830	829	829	830	828	828
12.5°	838	838	837	836	836	835	834	833	832	831	830
15°	842	843	841	840	839	838	837	837	835	834	834
17.5°	847	848	846	844	844	842	841	841	839	838	837
20°	852	853	851	850	849	848	846	847	846	844	844
22.5°	858	858	857	856	856	855	854	856	854	854	853
25°	864	865	864	864	865	865	866	868	868	867	866
27.5°	877	877	877	877	880	880	881	884	885	885	885
30°	894	895	894	894	897	898	901	904	906	906	907
32.5°	919	918	919	921	923	925	928	933	936	937	937
35°	951	952	951	952	956	959	962	968	970	972	973
37.5°	998	1001	999	999	1004	1006	1010	1015	1019	1021	1020
40°	1066	1065	1063	1064	1065	1067	1071	1081	1086	1086	1086
42.5°	1144	1145	1142	1141	1142	1144	1150	1158	1166	1164	1165
45°	1233	1226	1228	1226	1227	1234	1244	1248	1256	1256	1258
47.5°	1320	1317	1316	1315	1318	1325	1337	1350	1357	1361	1364
50°	1418	1413	1412	1413	1414	1416	1439	1452	1469	1472	1471
52.5°	1513	1509	1507	1507	1511	1518	1542	1563	1582	1594	1589
55°	1616	1616	1610	1608	1614	1621	1654	1678	1705	1714	1700
57.5°	1722	1721	1712	1709	1714	1732	1760	1797	1826	1834	1826
60°	1826	1826	1821	1819	1824	1846	1880	1921	1956	1971	1958
62.5°	1945	1945	1932	1938	1945	1962	2005	2058	2105	2113	2101
65°	2080	2086	2076	2074	2083	2115	2164	2231	2286	2307	2289
67.5°	2286	2277	2265	2260	2274	2304	2364	2452	2533	2553	2532
70°	2500	2491	2487	2503	2533	2596	2688	2811	2924	2972	2928
72°	2418	2406	2403	2437	2495	2598	2768	2966	3146	3213	3130
72.5°	2376	2366	2365	2397	2460	2564	2731	2935	3128	3201	3112
75°	2206	2196	2206	2242	2305	2417	2587	2778	2952	3019	2932
77.5°	1971	1953	1962	2012	2082	2204	2384	2610	2778	2760	2631
80°	1573	1533	1576	1591	1671	1753	1927	2028	2086	2089	1997
82.5°	687	703	757	802	859	954	1024	1133	1260	1319	1248
85°	45	56	89	106	147	179	257	374	451	516	435
87.5°	8	11	20	24	26	29	29	40	42	34	38
90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P140600

CATALOG NUMBER: ECM-E03-LED-E1-5XQ

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	822	822	822	822	822	822	822	822
2.5°	822	822	823	822	822	822	821	821
5°	823	823	824	824	823	823	823	823
7.5°	826	825	826	826	825	825	824	825
10°	827	827	828	828	827	827	827	827
12.5°	830	830	830	831	830	830	831	830
15°	833	832	832	832	832	833	833	834
17.5°	836	836	835	836	836	837	837	837
20°	842	841	839	841	841	841	841	842
22.5°	851	849	847	847	846	847	846	846
25°	864	861	858	857	856	855	854	855
27.5°	883	879	875	873	872	870	869	869
30°	904	901	895	893	890	887	887	886
32.5°	936	932	925	922	917	914	913	913
35°	969	964	961	957	951	948	947	947
37.5°	1019	1013	1009	1004	1003	999	999	999
40°	1084	1079	1074	1070	1067	1064	1060	1060
42.5°	1164	1156	1153	1148	1144	1141	1139	1139
45°	1252	1245	1241	1234	1233	1231	1227	1227
47.5°	1351	1341	1333	1331	1326	1321	1319	1320
50°	1459	1442	1431	1431	1425	1418	1419	1418
52.5°	1570	1551	1537	1527	1520	1519	1520	1519
55°	1682	1662	1645	1634	1627	1620	1619	1619
57.5°	1798	1773	1746	1736	1729	1725	1725	1726
60°	1929	1888	1854	1841	1836	1838	1837	1838
62.5°	2062	2015	1975	1960	1953	1952	1960	1963
65°	2230	2172	2127	2099	2099	2096	2105	2101
67.5°	2449	2367	2312	2267	2268	2271	2284	2283
70°	2822	2677	2575	2498	2468	2448	2444	2444
72°	2937	2721	2553	2432	2370	2332	2321	2309
72.5°	2907	2685	2515	2389	2325	2287	2270	2255
75°	2718	2470	2285	2153	2082	2036	2027	2020
77.5°	2398	2178	1987	1850	1779	1720	1696	1694
80°	1849	1651	1504	1397	1333	1289	1291	1277
82.5°	1091	924	798	655	561	507	473	469
85°	321	218	139	100	72	54	40	36
87.5°	29	23	19	16	15	13	8	6
90°	0	0	0	0	0	0	0	0

(END OF REPORT)