

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: P140280

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

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P140280  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33686)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: ECM-E03-LED-E1-5MQ  
Description: EPIC CLASSICAL MEDIUM DECORATIVE LED LUMINAIRE  
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM  
Light Source: (63) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9161.3 lumens  
Efficiency: N/A  
Efficacy: 121.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B3 - U0 - G2

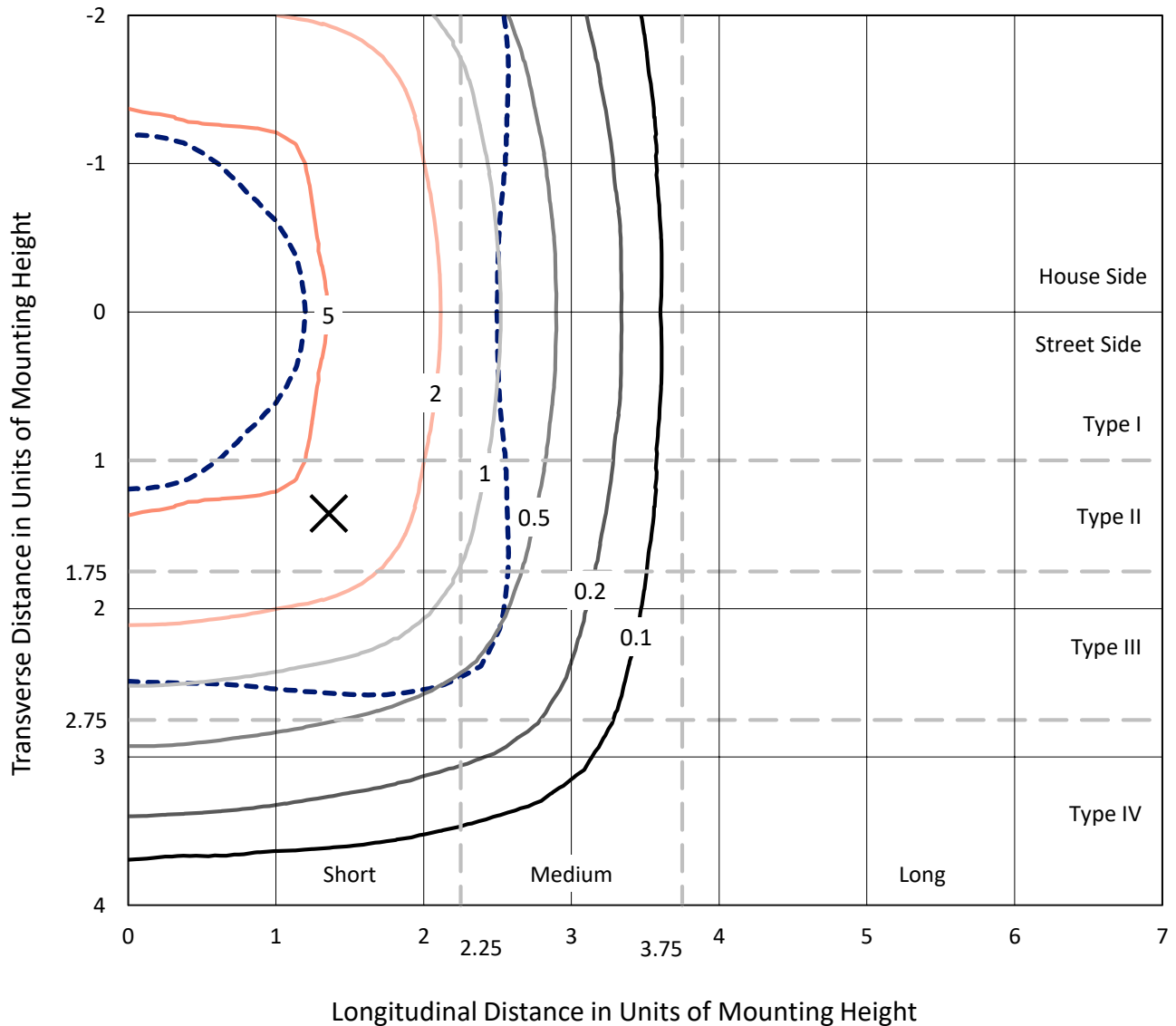
Input Watts (W): 75.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

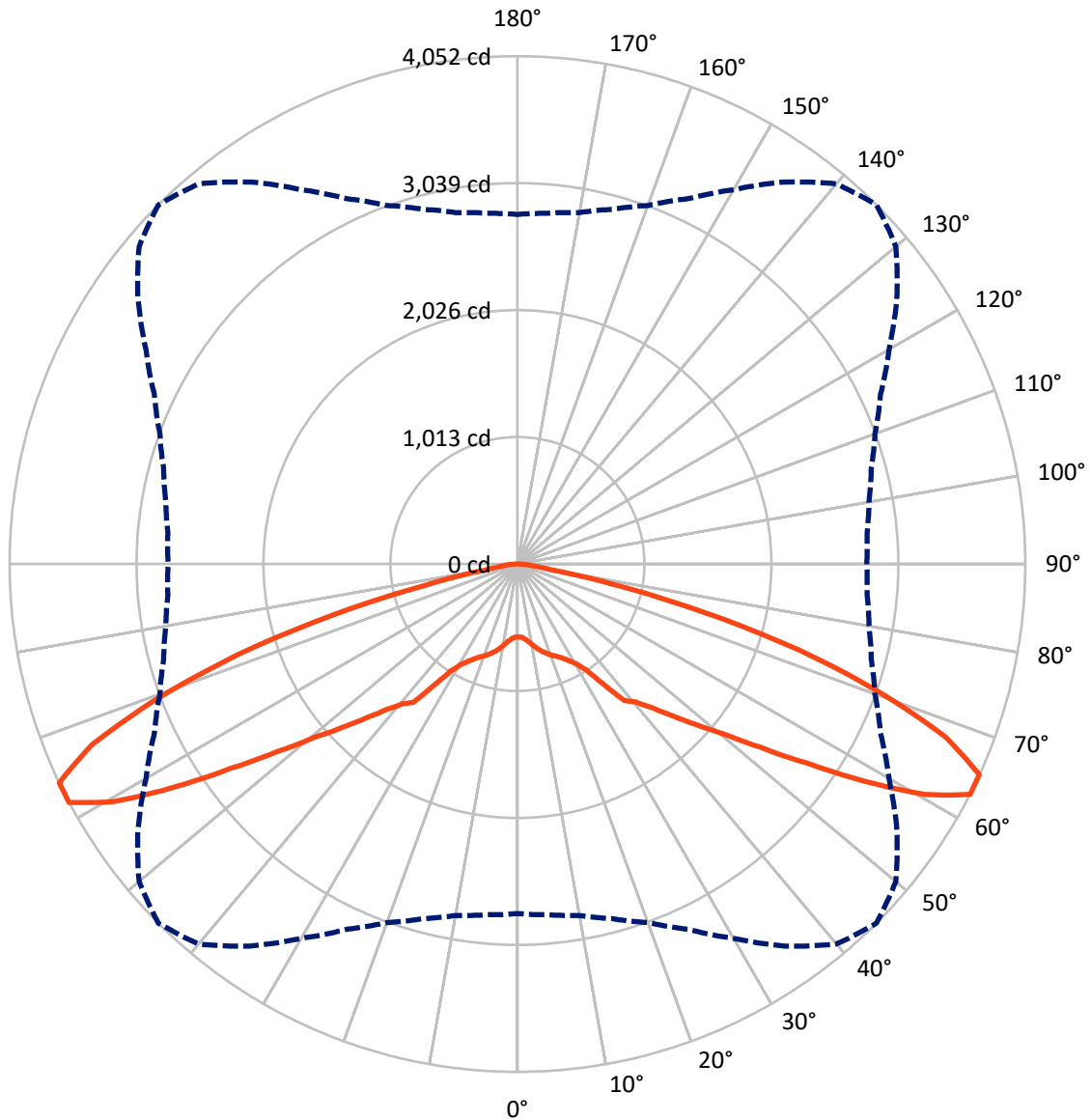
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.7 fc  
 Type V - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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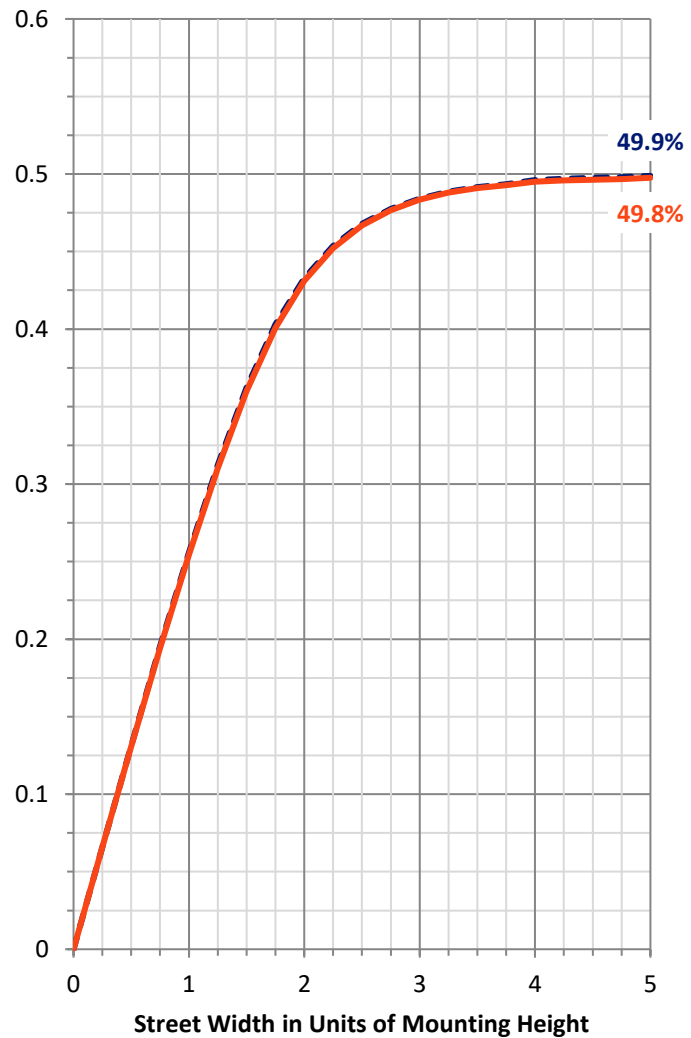
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4580.7	0.0	4580.7
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4580.7	0.0	4580.7
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	9161.3	0.0	9161.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	59.1	0.6
10°-20°	205.8	2.2
20°-30°	395.4	4.3
30°-40°	760.7	8.3
40°-50°	1324.0	14.5
50°-60°	2378.0	26.0
60°-70°	2915.1	31.8
70°-80°	1028.0	11.2
80°-90°	95.1	1.0
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°	9161.3	100.0
0°-180°	9161.3	100.0



--- HS    — SS

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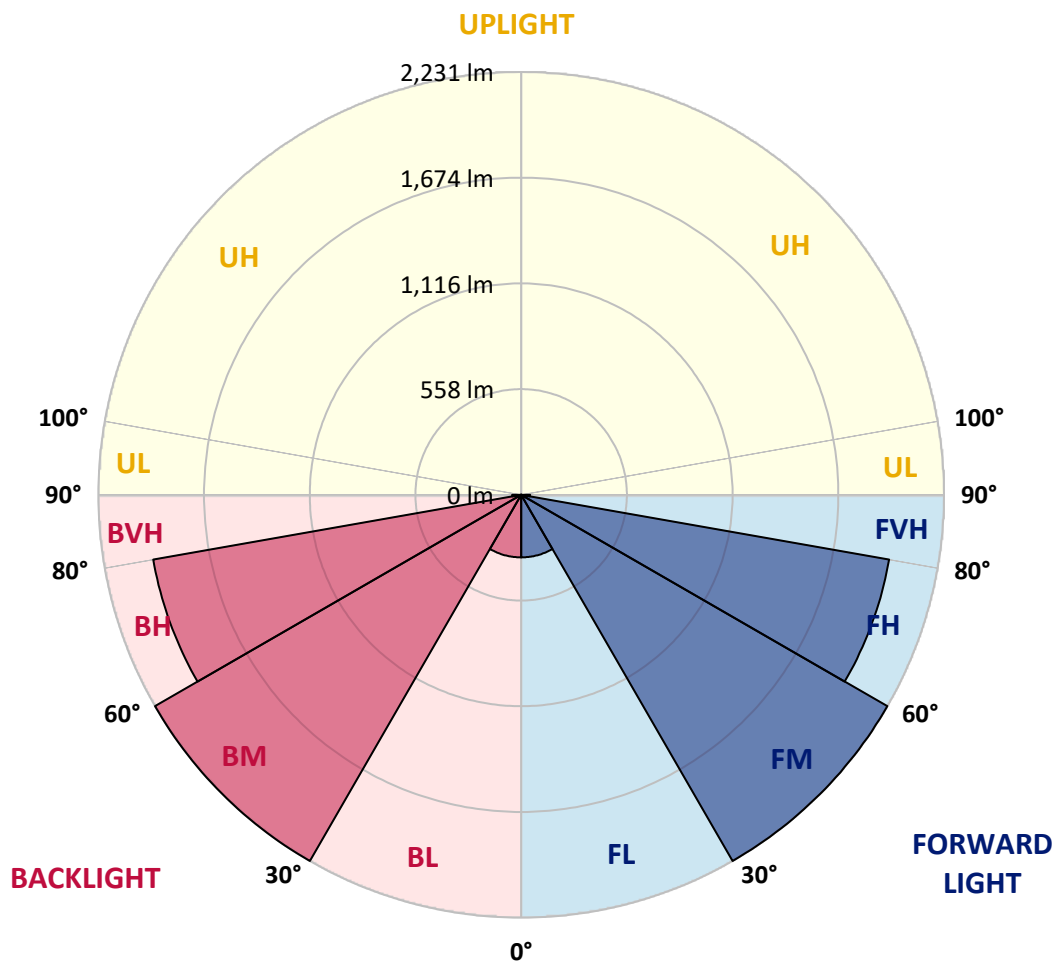
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	330.2	3.6			
FM	(30°-60°)	2231.4	24.4			
FH	(60°-80°)	1971.6	21.5			G2/5000
FVH	(80°-90°)	47.5	0.5			G1/100
BL	(0°-30°)	330.2	3.6	B1/500		
BM	(30°-60°)	2231.4	24.4	B2/2500		
BH	(60°-80°)	1971.6	21.5	B3/2500		G2/5000
BVH	(80°-90°)	47.5	0.5			G1/100
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°	581	581	581	581	581	581	581	581	581	581	581
2.5°	588	588	587	586	586	586	585	585	586	584	584
5°	603	604	603	602	601	601	600	600	601	599	598
7.5°	631	632	630	629	628	627	626	625	626	623	623
10°	667	667	667	663	663	660	659	657	658	655	655
12.5°	703	703	702	700	699	697	695	695	693	689	687
15°	735	736	735	732	731	728	728	726	723	721	719
17.5°	765	766	763	762	759	757	755	754	752	749	748
20°	794	793	790	786	784	782	780	779	778	776	776
22.5°	822	822	819	813	809	807	804	802	800	799	801
25°	864	863	857	851	844	838	834	833	831	831	832
27.5°	918	916	907	899	891	883	878	874	873	872	872
30°	986	983	975	965	956	946	936	933	928	924	931
32.5°	1116	1118	1102	1082	1062	1043	1026	1013	1005	1006	1006
35°	1259	1260	1253	1245	1239	1228	1209	1193	1181	1168	1174
37.5°	1321	1322	1316	1315	1319	1326	1345	1359	1380	1383	1377
40°	1430	1425	1417	1415	1412	1422	1430	1437	1440	1446	1440
42.5°	1544	1542	1536	1529	1529	1531	1544	1555	1562	1563	1562
45°	1672	1669	1664	1663	1666	1675	1684	1698	1720	1721	1720
47.5°	1813	1815	1807	1810	1815	1830	1855	1878	1902	1911	1900
50°	2006	1999	1999	1996	2009	2031	2061	2088	2122	2130	2113
52.5°	2268	2253	2256	2248	2255	2275	2324	2366	2409	2430	2397
55°	2583	2558	2561	2569	2575	2609	2671	2719	2800	2807	2769
57.5°	2841	2834	2838	2857	2895	2954	3032	3148	3248	3272	3231
60°	2935	2940	2968	3018	3090	3195	3347	3528	3687	3735	3673
62.5°	2789	2809	2847	2930	3044	3215	3448	3721	3959	4052	3941
65°	2504	2517	2579	2650	2797	2993	3279	3634	3927	4050	3926
67.5°	2130	2155	2209	2297	2424	2623	2923	3286	3580	3688	3579
70°	1710	1721	1755	1824	1956	2132	2389	2714	3000	3068	2981
72.5°	1186	1208	1237	1300	1383	1532	1744	1983	2213	2354	2226
75°	511	482	546	609	711	849	1015	1211	1439	1533	1407
77.5°	153	152	162	180	216	286	401	533	709	770	661
80°	125	129	133	137	141	146	155	181	222	262	213
82.5°	106	111	122	128	131	132	132	131	126	124	123
85°	80	88	103	112	112	112	112	109	102	90	100
87.5°	27	36	60	64	66	61	64	65	54	41	52
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°	581	581	581	581	581	581	581	581
2.5°	584	584	584	585	584	584	584	584
5°	599	598	599	598	599	599	598	599
7.5°	622	622	623	623	622	622	622	622
10°	653	651	652	652	652	651	651	650
12.5°	685	683	683	683	683	682	683	683
15°	715	713	711	711	712	713	713	712
17.5°	744	742	739	739	738	740	742	741
20°	773	772	767	767	767	769	770	773
22.5°	802	801	797	796	797	801	804	804
25°	833	835	834	834	836	842	845	849
27.5°	877	881	882	886	887	894	899	905
30°	934	941	945	952	957	961	968	973
32.5°	1013	1030	1050	1073	1083	1101	1109	1111
35°	1195	1213	1230	1240	1236	1241	1241	1245
37.5°	1359	1341	1326	1323	1315	1312	1313	1316
40°	1435	1426	1420	1423	1419	1416	1418	1419
42.5°	1558	1544	1539	1538	1536	1538	1543	1541
45°	1702	1684	1677	1676	1673	1672	1674	1678
47.5°	1875	1853	1831	1824	1824	1818	1822	1816
50°	2087	2051	2028	2015	2007	1998	2006	1993
52.5°	2366	2315	2290	2273	2250	2251	2253	2248
55°	2718	2662	2613	2580	2566	2558	2556	2572
57.5°	3123	3024	2946	2888	2866	2836	2822	2822
60°	3508	3328	3173	3076	3004	2953	2919	2909
62.5°	3696	3423	3196	3036	2922	2849	2800	2787
65°	3615	3268	3001	2821	2689	2595	2538	2522
67.5°	3289	2926	2645	2464	2322	2220	2177	2159
70°	2731	2398	2154	1977	1829	1743	1684	1660
72.5°	1963	1710	1486	1334	1201	1156	1076	1068
75°	1160	940	755	639	520	455	418	378
77.5°	472	337	253	191	164	149	142	140
80°	161	144	136	133	129	127	122	118
82.5°	127	126	122	121	117	111	101	95
85°	106	104	99	98	95	87	76	69
87.5°	60	55	50	51	48	42	31	22
90°	0	0	0	0	0	0	0	0

(END OF REPORT)