



IES ROAD REPORT
PHOTOMETRIC FILENAME : ICM-250-MH-XX-3S.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [ISSUE DATE]09/30/03
 [TEST]ITL53968
 [TEST LAB]INDEPENDENT TESTING LABORATORIES, INC.
 [MANUFACTURER]COOPER LIGHTING - INVUE
 [LUMEN CATEGORY]ICM-250-MH-XX-3S
 [LUMINAIRE]MEDIUM ARCHITECTURAL AREA LUMINAIRE - TYPE III DISTRIBUTION
 [LAMP]250 WATT MH CLEAR ED-28
 [REFLECTOR]PREMIUM SEGMENTED REFLECTOR
 [REFRACTOR]CLEAR FLAT GLASS
 [SOCKET POSITION]HORIZONTAL
 [LAMP LUMENS]20500

CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Medium
Cutoff Classification (deprecated)	Full Cutoff
Lumens Per Lamp	20500 (1 lamp)
Total Lamp Lumens	20500
Luminaire Lumens	14571
Total Luminaire Efficiency	71 %
Downward Total Efficiency	71 %
Upward Waste Light Ratio	0.00
Maximum Candela	11420
Maximum Candela Angle	64.5H 70V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Lamp Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1027 (5.0% Lamp Lumens)
Total Luminaire Watts	250
Ballast Factor	1.00



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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1114.6	5.4	7.6
FM - Front-Medium (30-60)	4721.4	23.0	32.4
FH - Front-High (60-80)	3350.7	16.3	23.0
FVH - Front-Very High (80-90)	45.9	0.2	0.3
BL - Back-Low (0-30)	993.1	4.8	6.8
BM - Back-Medium (30-60)	2979.7	14.5	20.4
BH - Back-High (60-80)	1349.5	6.6	9.3
BVH - Back-Very High (80-90)	15.9	0.1	0.1
UL - Uplight-Low (90-100)	0.0	0.0	0.0
UH - Uplight-High (100-180)	0.0	0.0	0.0
Total	14570.8	70.9	100.0
BUG Rating	B3-U1-G3		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0.0</u>	<u>5.0</u>	<u>15.0</u>	<u>25.0</u>	<u>35.0</u>	<u>45.0</u>	<u>55.0</u>	<u>64.5</u>	<u>65.0</u>	<u>75.0</u>
0.0	2286	2286	2286	2286	2286	2286	2286	2286	2286	2286
2.5	2294	2294	2317	2294	2294	2294	2294	2306	2306	2317
5.0	2317	2330	2330	2317	2317	2317	2330	2354	2377	2365
7.5	2341	2341	2317	2330	2330	2330	2354	2365	2377	2377
10.0	2294	2294	2294	2294	2317	2330	2354	2377	2377	2413
12.5	2270	2258	2258	2281	2306	2317	2354	2401	2401	2449
15.0	2270	2246	2270	2281	2317	2354	2413	2473	2473	2508
17.5	2270	2270	2294	2294	2330	2413	2473	2557	2544	2604
20.0	2294	2281	2294	2306	2390	2473	2533	2640	2617	2807
22.5	2294	2294	2306	2341	2485	2568	2640	2807	2784	3058
25.0	2246	2270	2306	2390	2580	2664	2807	3178	3130	3524
27.5	2246	2270	2294	2413	2664	2784	3142	3763	3691	4074
30.0	2437	2401	2377	2461	2700	3011	3680	4134	4157	4217
32.5	2843	2784	2568	2652	2831	3381	4145	4074	4134	3942
35.0	3417	3333	2784	2867	2998	3883	4265	3858	3883	3942
37.5	4061	3942	2951	3047	3178	4253	4061	4002	3967	4193
40.0	4564	4288	3070	3154	3548	4277	4193	4193	4157	4229
42.5	4659	4384	3166	2974	3918	4205	4874	4205	4205	4074
45.0	4707	4265	3154	2580	3907	4515	5842	4444	4397	4170
47.5	4420	4038	3082	2425	3798	5388	5830	5328	5172	4718
50.0	3942	3560	2903	2341	3691	5208	5722	5172	5197	5232
52.5	3274	3082	2771	3011	4277	5889	5914	5448	5424	5328
55.0	2604	3058	2974	3715	4253	5615	5961	5352	5495	4695
57.5	2078	3285	3118	2951	4468	5054	5662	5041	5041	4528
60.0	1720	2951	2927	3250	5065	4324	5484	5005	4970	4695
62.5	1266	2306	2544	3274	4050	3261	4301	6152	5974	4420
65.0	980	1434	1733	2007	2449	2855	4312	4898	5172	4229
67.5	789	824	1076	1386	1648	3954	6236	8039	7382	4945
70.0	597	646	836	1063	1446	4384	9426	11420	11110	7622
72.5	478	693	956	967	1840	4110	8852	10142	10286	8828
75.0	334	681	932	873	2938	3094	4515	4265	5149	3894
77.5	216	466	764	502	2091	1780	1087	597	777	610
80.0	72	107	394	251	1027	896	418	131	156	156
82.5	24	47	96	72	323	167	216	47	72	72
85.0	0	0	0	0	12	12	12	12	36	36
87.5	0	0	0	0	0	0	0	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles	Horizontal Angles									
	<u>85.0</u>	<u>90.0</u>	<u>95.0</u>	<u>105.0</u>	<u>115.0</u>	<u>125.0</u>	<u>135.0</u>	<u>145.0</u>	<u>155.0</u>	<u>165.0</u>
0.0	2286	2286	2286	2286	2286	2286	2286	2286	2286	2286
2.5	2294	2281	2281	2281	2281	2258	2246	2246	2246	2234
5.0	2365	2341	2330	2306	2270	2258	2234	2222	2198	2186
7.5	2365	2354	2330	2306	2258	2210	2198	2174	2150	2150
10.0	2401	2377	2377	2306	2246	2198	2174	2138	2114	2114
12.5	2449	2437	2425	2354	2281	2210	2150	2103	2067	2091
15.0	2497	2473	2473	2390	2317	2258	2163	2091	2054	2031
17.5	2593	2568	2557	2461	2390	2281	2186	2078	2031	1983
20.0	2820	2771	2736	2593	2461	2317	2186	2067	1983	1911
22.5	3154	3118	3070	2867	2604	2390	2222	2043	1923	1851
25.0	3691	3655	3631	3345	2903	2508	2234	2031	1887	1780
27.5	4121	4098	4085	3894	3357	2724	2270	2007	1840	1720

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CANDELA TABULATION - (Cont.)

30.0	4098	4050	4061	4038	3727	3011	2354	1995	1816	1673
32.5	3883	3847	3835	3751	3631	3201	2473	2007	1768	1613
35.0	4098	4050	4025	3775	3428	3154	2544	1995	1720	1565
37.5	4324	4288	4265	3978	3453	3034	2521	1971	1684	1506
40.0	4157	4157	4145	3967	3536	2987	2401	1911	1624	1410
42.5	4002	4014	4014	3835	3417	2927	2281	1864	1565	1338
45.0	3978	4181	4288	3798	3393	2891	2210	1828	1529	1278
47.5	4814	5375	5375	4384	3655	2987	2174	1780	1493	1219
50.0	5974	6068	6117	5077	3894	3070	2222	1744	1446	1159
52.5	4862	5137	5328	4455	3787	2724	2186	1720	1421	1111
55.0	4420	4838	4767	4468	3261	2401	2222	1684	1386	1040
57.5	5197	5375	5149	4384	3441	2425	2390	1637	1350	991
60.0	5257	4898	4683	3871	3310	2413	2198	1565	1290	932
62.5	4337	3715	3704	3835	2867	2951	2390	1506	1219	884
65.0	4145	3524	3178	3477	2604	2341	2019	1434	1147	813
67.5	5018	4731	3225	3118	2317	2449	1960	1314	1051	741
70.0	8816	7036	3285	2617	1983	1900	1577	1171	920	633
72.5	7872	4814	2103	1243	1040	1278	1004	789	669	478
75.0	2843	1768	944	597	466	526	418	299	251	216
77.5	597	478	394	299	251	239	216	120	96	84
80.0	216	191	191	156	120	120	131	60	47	47
82.5	72	96	84	72	60	47	60	47	24	24
85.0	36	36	36	24	24	24	24	12	0	0
87.5	0	0	0	0	0	0	0	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles

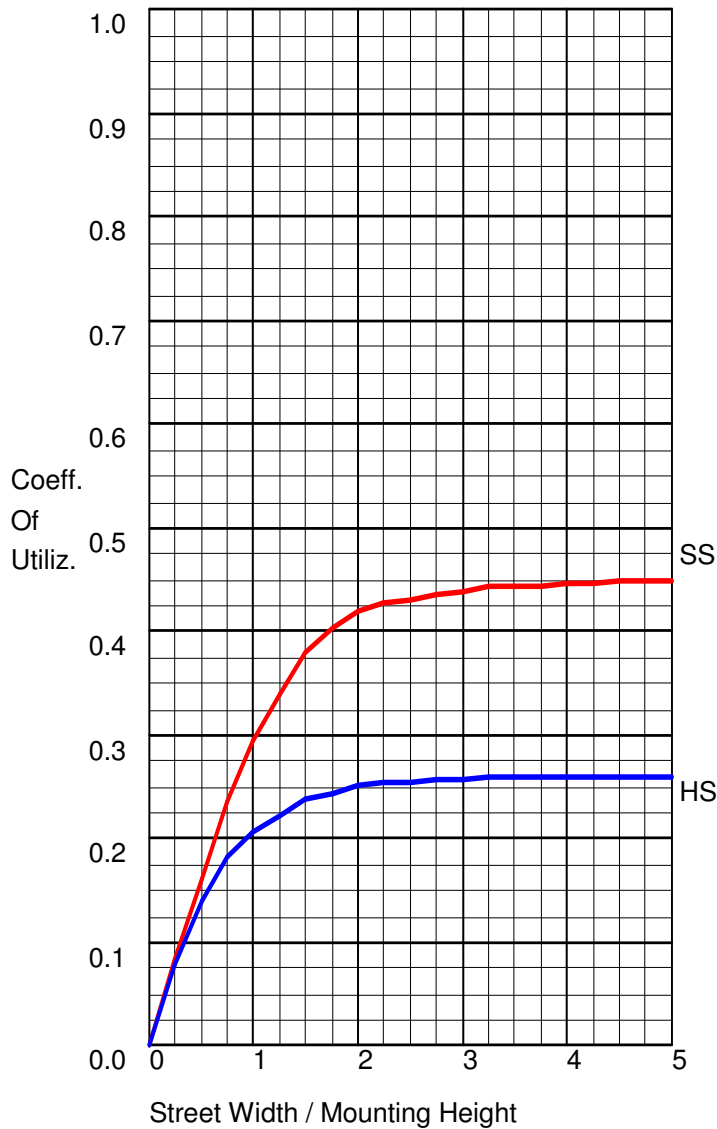
	<u>175.0</u>	<u>180.0</u>
0.0	2286	2286
2.5	2246	2246
5.0	2198	2222
7.5	2163	2198
10.0	2127	2127
12.5	2067	2103
15.0	2019	2031
17.5	1971	2007
20.0	1876	1911
22.5	1804	1840
25.0	1733	1768
27.5	1684	1697
30.0	1613	1648
32.5	1565	1577
35.0	1493	1506
37.5	1434	1434
40.0	1361	1361
42.5	1266	1266
45.0	1171	1194
47.5	1099	1099
50.0	1016	1027
52.5	920	932
55.0	860	860
57.5	789	789
60.0	729	717
62.5	669	646
65.0	586	573

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CANDELA TABULATION - (Cont.)

67.5	502	478
70.0	418	406
72.5	323	310
75.0	203	216
77.5	84	96
80.0	47	47
82.5	24	24
85.0	0	24
87.5	0	0
90.0	0	0

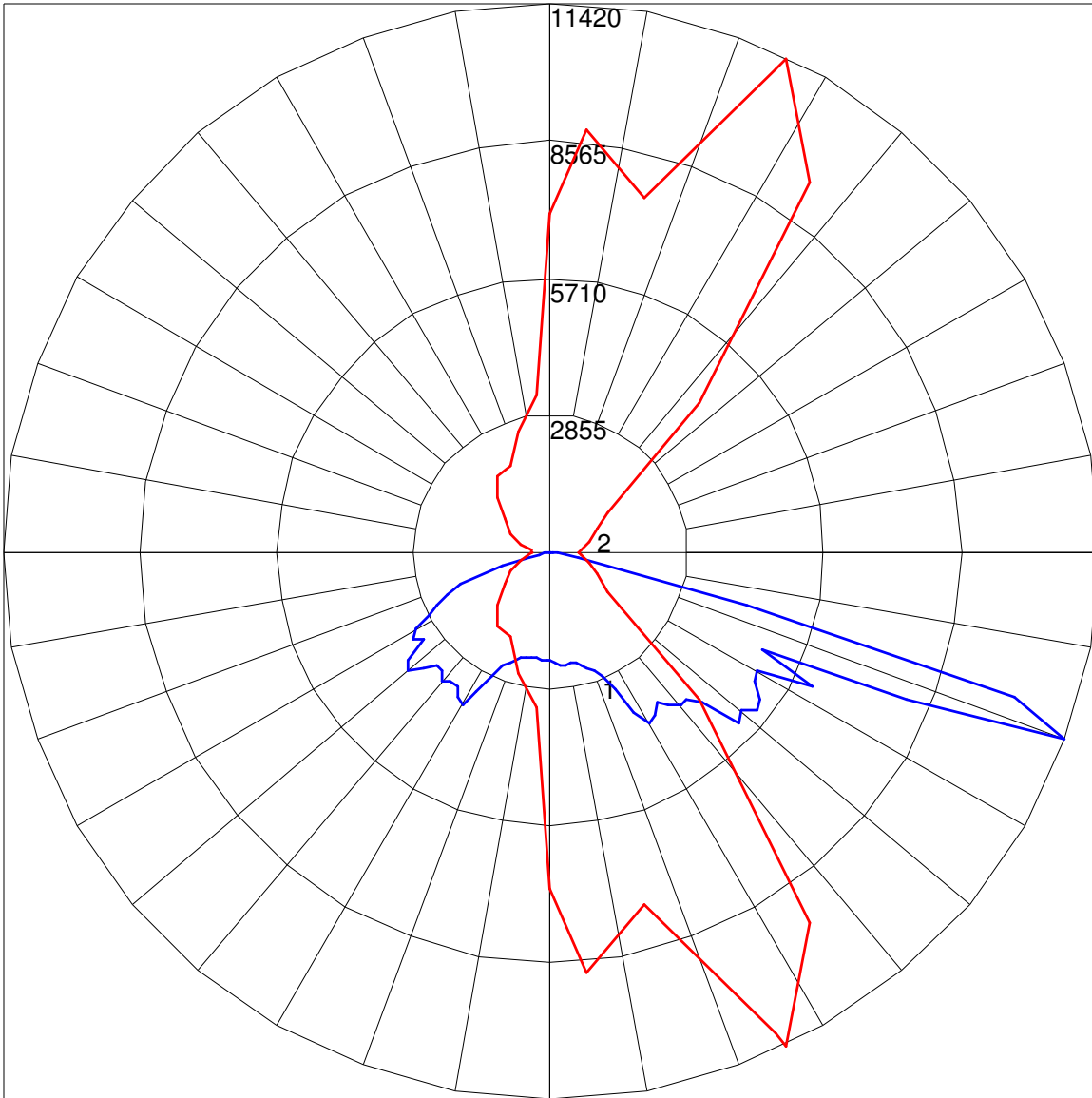
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

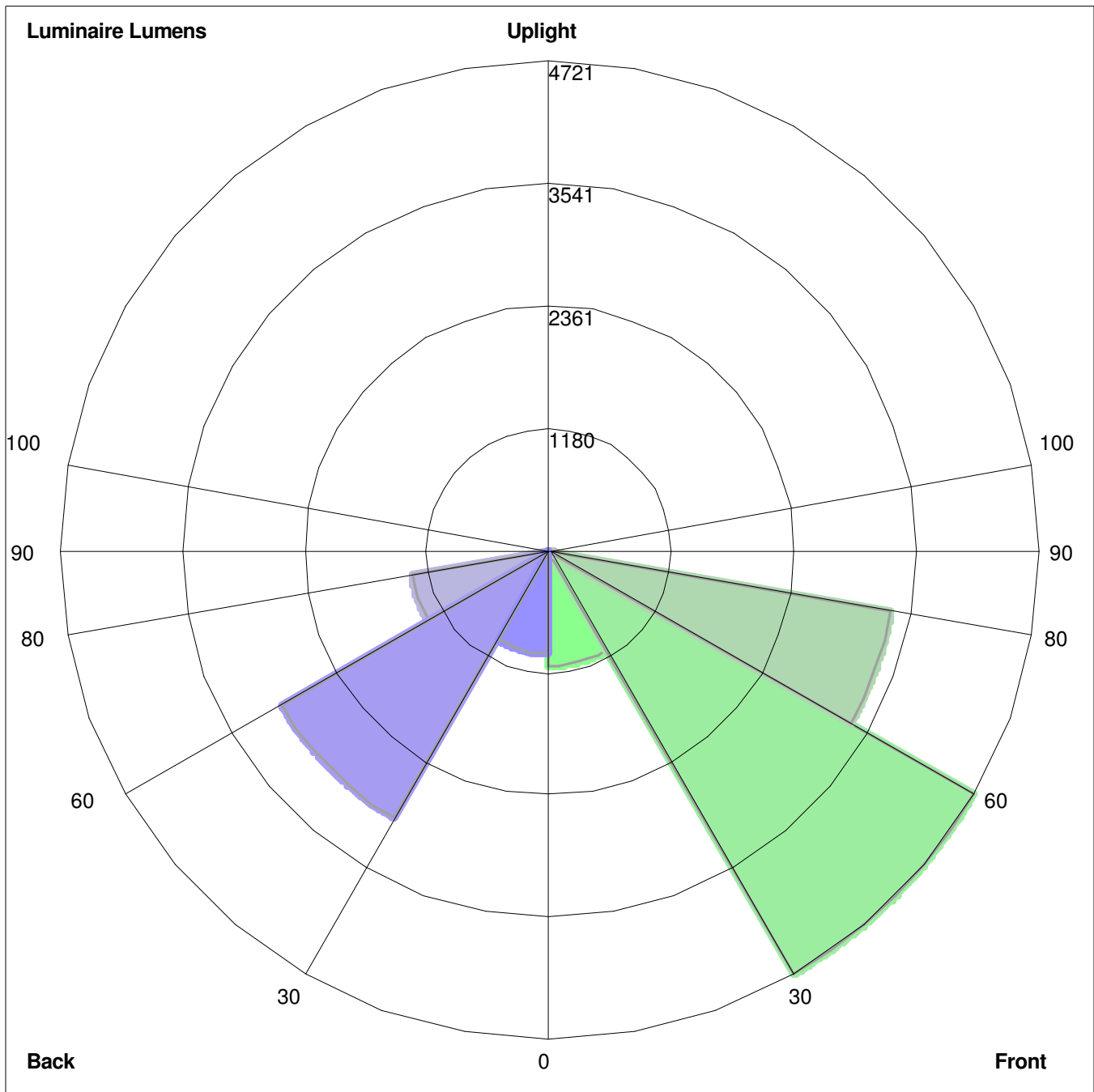
	Lumens	Percent Of Lamp
Downward Street Side	9232.5	45.0
Downward House Side	5338.2	26.0
Downward Total	14570.7	71.1
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	14570.7	71.1

POLAR GRAPH



Maximum Candela = 11420 Located At Horizontal Angle = 64.5, Vertical Angle = 70
1 - Vertical Plane Through Horizontal Angles (64.5 - 244.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (70) (Through Max. Cd.)

LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1114.6, Medium=4721.4, High=3350.7, Very High=45.9
Back: Low=993.1, Medium=2979.7, High=1349.5, Very High=15.9
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U1-G3