



IES ROAD REPORT
PHOTOMETRIC FILENAME : XGBM-3-LED-LW-CW.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-5124
[TESTLAB]LSI INDUSTRIES
[ISSUE DATE]02/10/14
[TEST DATE]02/10/14
[MANUFACTURER]LSI INDUSTRIES
[LUMEN CATEGORY]XGBM-3-LED-LW-CW
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER]TEST PROCEDURE: IESNA LM-79-08

CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	14082
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	100
Total Luminaire Watts	140.3
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	8971
Maximum Candela Angle	52.5H 52.5V
Maximum Candela (<90 Degrees Vertical)	8971
Maximum Candela Angle (<90 Degrees Vertical)	52.5H 52.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	992 (7.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1642.8	N.A.	11.7
FM - Front-Medium (30-60)	6586.9	N.A.	46.8
FH - Front-High (60-80)	2840.8	N.A.	20.2
FVH - Front-Very High (80-90)	57.4	N.A.	0.4
BL - Back-Low (0-30)	985.8	N.A.	7.0
BM - Back-Medium (30-60)	1448.1	N.A.	10.3
BH - Back-High (60-80)	503.2	N.A.	3.6
BVH - Back-Very High (80-90)	16.6	N.A.	0.1
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	14081.6	N.A.	100.0
BUG Rating	B2-U0-G2		

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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>52.5</u>	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>
0.0	2533	2533	2533	2533	2533	2533	2533	2533	2533	2533
2.5	2515	2514	2516	2529	2541	2554	2575	2578	2592	2592
5.0	2505	2502	2517	2562	2630	2707	2780	2795	2867	2890
7.5	2581	2574	2628	2758	2903	3037	3139	3161	3271	3329
10.0	2666	2662	2792	3040	3271	3467	3617	3649	3780	3867
12.5	2781	2790	3009	3361	3728	4005	4129	4144	4191	4267
15.0	2697	2713	3019	3515	4102	4422	4501	4520	4465	4439
17.5	2665	2701	3132	3727	4191	4561	4691	4661	4479	4351
20.0	2507	2579	3229	4089	4514	4549	4472	4522	4313	4179
22.5	2463	2572	3400	4379	4721	4690	4341	4251	4024	3919
25.0	2586	2725	3720	4719	4991	4721	4428	4265	3808	3648
27.5	2636	2827	4055	5137	5240	5005	4620	4473	3787	3513
30.0	2807	3052	4472	5470	5514	5240	4878	4715	3980	3604
32.5	2879	3196	4937	5696	5465	5296	5044	4971	4367	3903
35.0	3037	3427	5271	5789	5349	5216	5245	5271	4909	4413
37.5	3001	3422	5312	5604	5414	5305	5444	5568	5601	4969
40.0	3039	3474	5306	5633	5692	5654	5737	5875	6346	5672
42.5	3253	3687	5431	5669	6047	6289	6220	6298	7087	6187
45.0	3517	3977	5545	5696	6337	7124	7064	7015	7481	6737
47.5	3607	4095	5697	5728	6552	7877	7993	7835	7944	7117
50.0	3317	3918	5486	5664	6653	8274	8690	8586	8051	7387
52.5	3070	3720	4812	5294	6543	8331	8971	8910	8046	6928
55.0	2813	3352	4218	4685	6137	8163	8835	8775	7660	6617
57.5	2467	2792	3399	4064	5424	7652	8263	8262	7400	6790
60.0	2127	2376	2707	3277	4665	6539	7504	7575	7407	6771
62.5	1061	1436	1757	2638	3819	5383	6586	6812	7116	6910
65.0	772	931	1073	1606	2992	4480	5803	6144	7157	7180
67.5	327	388	644	1129	1878	4224	5326	5709	6674	6125
70.0	101	125	173	456	1474	3471	5049	5230	5402	5559
72.5	71	98	120	225	1012	2933	3931	4289	4510	4276
75.0	54	68	92	151	767	2268	3050	3118	3269	2832
77.5	34	39	57	94	568	1560	1961	2011	1863	1637
80.0	24	26	32	59	298	760	982	992	855	724
82.5	14	16	19	27	73	188	283	308	283	243
85.0	8	9	11	11	16	32	50	56	58	24
87.5	5	5	5	5	6	7	8	8	7	7
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	2533	2533	2533	2533	2533	2533	2533	2533	2533	2533
2.5	2594	2596	2584	2573	2561	2534	2516	2485	2457	2433
5.0	2905	2920	2902	2826	2717	2517	2316	2112	1957	1842
7.5	3396	3387	3353	3159	2792	2400	2111	1895	1731	1619
10.0	3932	3916	3864	3459	2893	2541	2312	2071	1857	1658
12.5	4328	4306	4224	3564	3069	2836	2629	2322	2005	1720
15.0	4463	4428	4319	3518	3230	3081	2856	2504	2083	1721
17.5	4357	4310	4177	3434	3281	3123	2779	2352	1953	1640
20.0	4166	4134	3965	3350	3218	2959	2598	2020	1707	1514
22.5	3887	3876	3726	3283	3120	2707	2166	1623	1465	1434
25.0	3669	3649	3551	3238	2981	2381	1679	1348	1376	1424
27.5	3599	3571	3479	3191	2753	1944	1341	1284	1351	1363

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CANDELA TABULATION - (Cont.)

30.0	3705	3664	3535	3152	2446	1511	1193	1262	1248	1160
32.5	3944	3923	3752	3121	2067	1103	1106	1138	1024	864
35.0	4344	4268	4039	3193	1750	936	991	936	777	607
37.5	4795	4617	4335	3179	1452	933	827	711	577	517
40.0	5383	5177	4818	3093	1176	908	709	532	496	502
42.5	5639	5525	5093	2917	1058	864	635	453	458	443
45.0	5872	5834	5366	2681	1058	831	636	393	395	362
47.5	5807	5774	5301	2414	1117	796	665	318	301	312
50.0	5610	5636	5137	2096	1102	747	675	260	234	296
52.5	5002	4985	4736	1822	1094	670	570	269	189	203
55.0	4638	4555	4509	1672	993	590	473	225	140	138
57.5	4572	4472	4433	1607	817	491	393	199	120	111
60.0	4411	4336	4368	1485	664	387	251	200	113	98
62.5	4519	4422	4380	1169	488	285	211	151	114	90
65.0	4667	4409	4377	995	340	201	220	186	114	81
67.5	4235	3922	3894	739	245	155	172	168	105	63
70.0	4085	3673	3497	419	150	157	149	113	80	55
72.5	3293	2928	2730	269	132	127	135	83	59	47
75.0	2184	1863	1797	177	105	107	98	71	51	52
77.5	1345	1142	1046	108	73	82	82	61	56	56
80.0	567	494	452	62	45	65	66	60	57	47
82.5	205	175	138	30	37	52	39	40	32	31
85.0	23	20	21	12	38	23	17	16	15	16
87.5	5	5	5	5	6	8	8	7	6	5
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

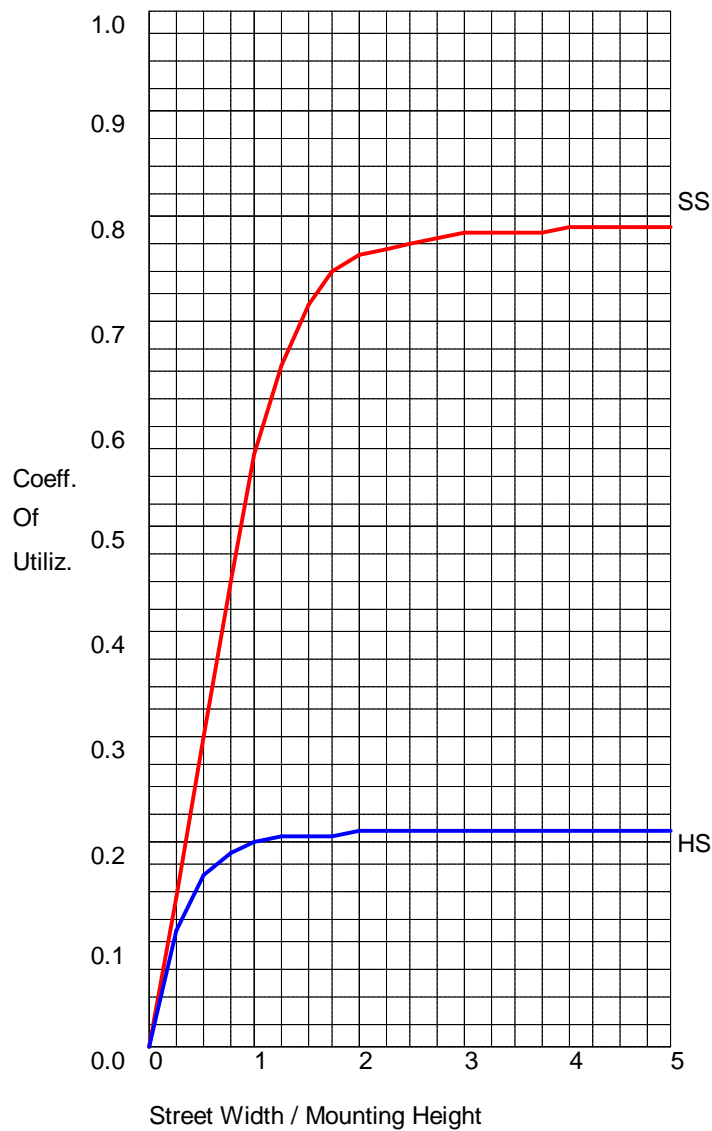
	<u>175.0</u>	<u>180.0</u>
0.0	2533	2533
2.5	2429	2446
5.0	1804	1833
7.5	1562	1565
10.0	1553	1549
12.5	1542	1532
15.0	1509	1493
17.5	1437	1420
20.0	1376	1362
22.5	1374	1364
25.0	1364	1355
27.5	1241	1221
30.0	974	945
32.5	655	618
35.0	427	388
37.5	369	336
40.0	361	323
42.5	314	275
45.0	247	212
47.5	222	190
50.0	201	163
52.5	148	107
55.0	112	82
57.5	90	60
60.0	89	53
62.5	82	53
65.0	76	49

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CANDELA TABULATION - (Cont.)

67.5	61	52
70.0	47	41
72.5	35	28
75.0	32	32
77.5	33	27
80.0	32	20
82.5	21	13
85.0	13	7
87.5	5	4
90.0	0	0

COEFFICIENTS OF UTILIZATION

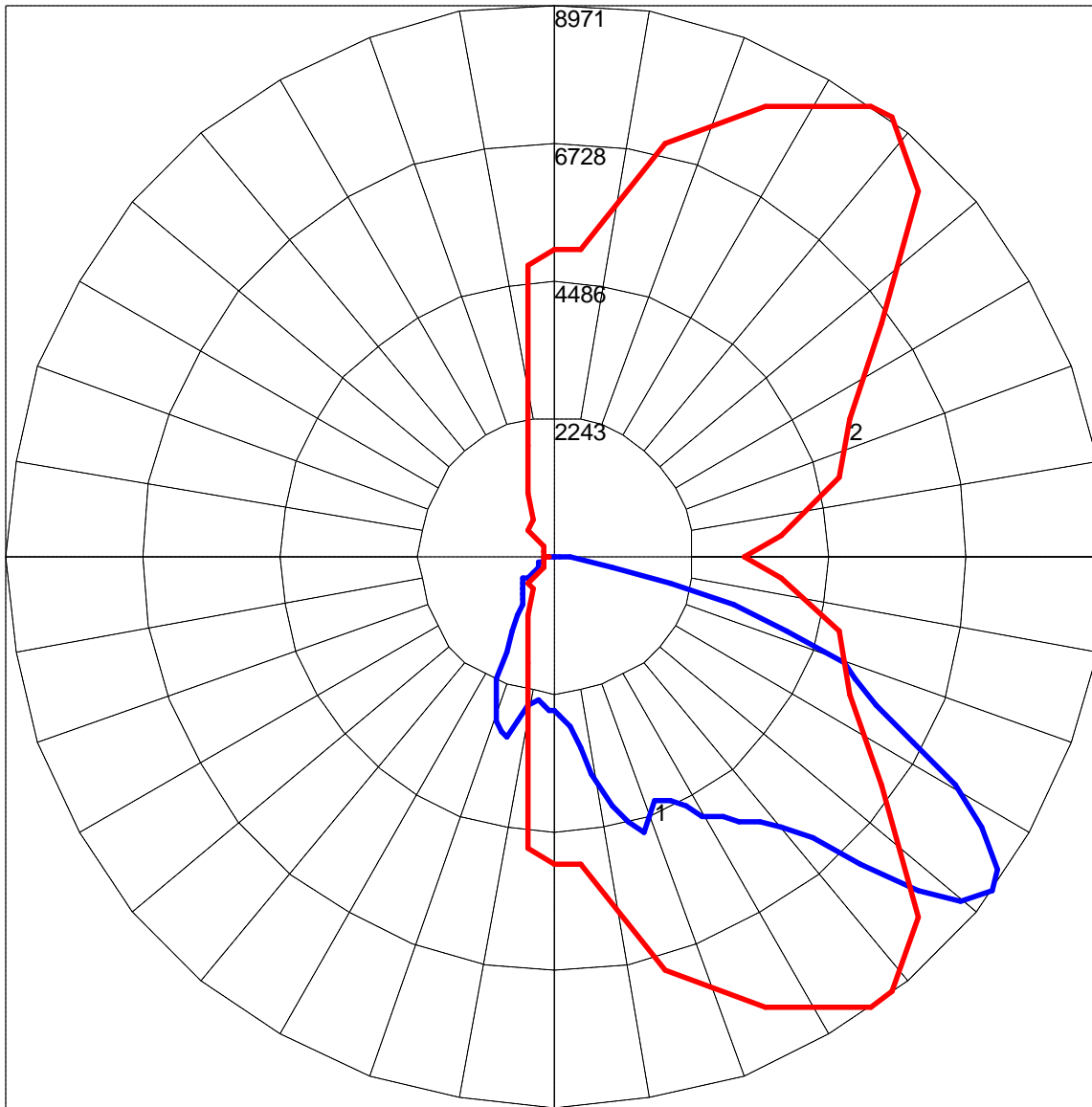


FLUX DISTRIBUTION

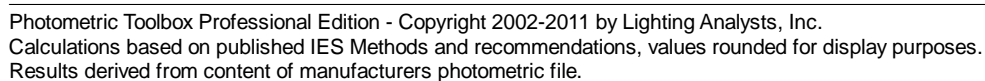
	Lumens	Percent Of Luminaire
Downward Street Side	11127.9	79.0
Downward House Side	2953.7	21.0
Downward Total	14081.6	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	14081.6	100.0

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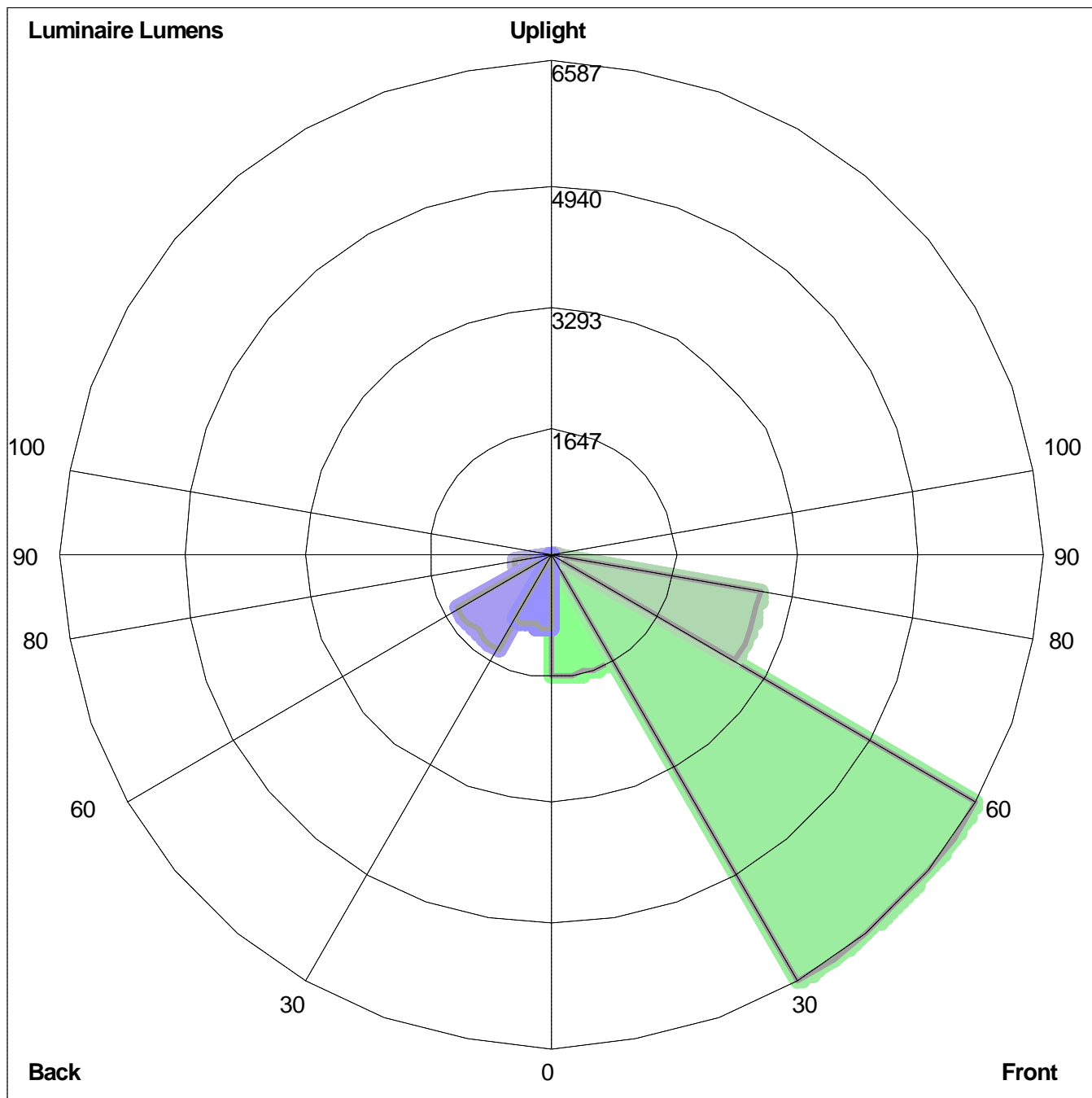
POLAR GRAPH



Maximum Candela = 8971 Located At Horizontal Angle = 52.5, Vertical Angle = 52.5
1 - Vertical Plane Through Horizontal Angles (52.5 - 232.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (52.5) (Through Max. Cd.)



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1642.8, Medium=6586.9, High=2840.8, Very High=57.4
Back: Low=985.8, Medium=1448.1, High=503.2, Very High=16.6
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G2