



IES ROAD REPORT
PHOTOMETRIC FILENAME : XLCL-FTA-LED-HO-CW.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-7590
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]02/24/16
[TEST DATE]02/24/16
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMCAT]XLCL-FTA-LED-HO-CW
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[ABSOLUTE LUMENS]59061
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Outdoor

CHARACTERISTICS

IES Classification	Type II
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	59061
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	111
Total Luminaire Watts	532.5
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	49955
Maximum Candela Angle	7.5H 32.5V
Maximum Candela (<90 Degrees Vertical)	49955
Maximum Candela Angle (<90 Degrees Vertical)	7.5H 32.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1170 (2.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	10157.6	N.A.	17.2
FM - Front-Medium (30-60)	33218.8	N.A.	56.2
FH - Front-High (60-80)	5510.1	N.A.	9.3
FVH - Front-Very High (80-90)	131.9	N.A.	0.2
BL - Back-Low (0-30)	4113.9	N.A.	7.0
BM - Back-Medium (30-60)	4447.5	N.A.	7.5
BH - Back-High (60-80)	1438.9	N.A.	2.4
BVH - Back-Very High (80-90)	42.3	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	59061.0	N.A.	100.0
BUG Rating	B4-U0-G3		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0.0</u>	<u>5.0</u>	<u>7.5</u>	<u>15.0</u>	<u>25.0</u>	<u>35.0</u>	<u>45.0</u>	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>
0.0	17450	17450	17450	17450	17450	17450	17450	17450	17450	17450
2.5	17711	17876	17825	17866	17675	17801	17739	17546	17652	17579
5.0	18176	18367	18281	18395	18106	18190	18056	17813	17903	17761
7.5	18913	19076	19043	19022	18759	18835	18793	18524	18665	18369
10.0	19799	19925	19931	19963	19712	19906	19898	19559	19628	19167
12.5	21040	21081	21111	21118	20964	21015	20791	20444	20213	19543
15.0	22372	22407	22454	22500	22308	21961	21449	20818	20321	19637
17.5	24350	24321	24438	24358	23901	22839	21933	21163	20641	19839
20.0	27165	27123	27243	27159	25819	24091	22642	21323	20797	20001
22.5	30711	30718	30762	30358	28455	26104	23772	21596	20856	20043
25.0	35244	35390	35236	34439	31728	28820	25359	22148	20894	20001
27.5	40920	41031	40845	39645	36059	32102	27333	22970	20970	19963
30.0	46540	46645	46545	45300	41306	36242	29705	24259	21081	19797
32.5	49481	49787	49955	49312	46322	41128	32840	25916	21395	19676
35.0	48471	48948	49149	49502	48987	45769	37024	27891	21884	19454
37.5	46091	46331	46636	46946	48022	47800	41314	30468	22630	19133
40.0	43805	44026	44270	44599	45593	46690	44628	33632	23601	18865
42.5	39908	40544	40607	41702	43176	44277	45507	37179	24825	18796
45.0	34517	35381	35407	37121	39500	41957	43597	40080	26377	18819
47.5	28147	28952	29007	30687	34411	38802	41108	41437	28511	18804
50.0	22312	23096	23045	24431	27966	33709	38274	39986	30852	18647
52.5	18211	18582	18700	19559	22010	27486	34253	36907	32697	18358
55.0	15474	15766	15804	16368	17558	21318	28373	33603	33314	18092
57.5	12458	12592	12833	13532	14488	16639	21779	29574	31985	18106
60.0	5681	5744	6187	8080	11566	13577	16377	24222	28848	18489
62.5	1767	1664	1752	1987	5022	10405	12736	18048	25261	18766
65.0	974	984	1057	1104	1479	3767	9992	13042	20702	17302
67.5	809	837	847	806	818	1170	4629	8932	14452	15469
70.0	912	944	950	928	830	740	1127	5707	9322	13077
72.5	672	699	691	760	879	851	724	1436	5381	9810
75.0	663	666	667	604	569	692	842	648	2968	6263
77.5	631	636	645	659	685	616	590	722	707	2719
80.0	418	419	417	414	450	571	675	479	452	997
82.5	325	326	335	331	351	374	400	563	343	268
85.0	141	154	162	170	205	226	264	281	272	123
87.5	43	47	49	53	60	71	82	93	86	57
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	17450	17450	17450	17450	17450	17450	17450	17450	17450	17450
2.5	17546	17572	17564	17386	17463	17218	17378	17332	17312	17386
5.0	17626	17643	17516	17359	17292	17043	17116	17034	17025	17100
7.5	18127	18009	17928	17599	17458	17116	17169	17043	16983	17066
10.0	18728	18465	18287	17702	17361	17076	17050	16813	16485	16170
12.5	18934	18484	18114	17428	17139	16866	16437	15142	13822	12585
15.0	18752	18307	17838	17094	16914	16236	14198	11732	9401	7780
17.5	18910	18315	17748	16997	16798	14557	11174	7549	4803	3224
20.0	18934	18245	17526	16855	16193	12307	7513	3578	1711	1207
22.5	18913	18119	17364	16749	14740	9290	3960	1499	1044	945
25.0	18810	18031	17181	16673	12900	6061	1724	1072	947	881
27.5	18715	17837	16977	16280	10575	3055	1035	916	861	808

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CANDELA TABULATION - (Cont.)

30.0	18515	17574	16709	15421	7971	1449	832	785	800	896
32.5	18374	17361	16507	14599	5404	917	726	745	929	1234
35.0	17965	16900	16120	13397	3257	777	666	905	1348	1754
37.5	17132	16250	15691	11962	1980	712	763	1304	1828	1956
40.0	16593	15829	15211	10079	1453	677	1047	1749	2037	2031
42.5	16430	15559	14708	8146	1287	716	1498	1914	2264	2289
45.0	16477	15239	14389	6178	1212	910	1876	2052	2448	2661
47.5	16526	15044	13913	4358	1106	1288	2030	2354	2732	3036
50.0	15966	14253	13150	2917	967	1799	2251	2744	3099	3275
52.5	14903	13416	12232	1908	997	2049	2602	3159	3302	3254
55.0	13957	12624	11251	1211	1222	2247	2981	3409	3188	2927
57.5	13006	11595	10115	824	1632	2555	3322	3304	2720	2310
60.0	11712	10397	8876	614	1855	2910	3392	2802	2069	1705
62.5	10583	9498	7273	564	2051	3266	3000	2093	1537	1284
65.0	9296	8310	5479	645	2408	3299	2309	1551	1095	868
67.5	7915	6712	4003	795	2842	2777	1676	1035	670	555
70.0	6330	5265	2679	1018	2943	2050	1143	599	426	414
72.5	5014	4069	1632	1215	2440	1384	626	391	349	332
75.0	3296	2561	840	1320	1638	711	354	288	251	223
77.5	2090	1449	382	1181	869	331	247	185	151	125
80.0	1170	695	214	702	320	198	144	103	78	68
82.5	617	313	154	269	148	105	77	70	62	54
85.0	210	120	85	79	67	57	54	52	48	44
87.5	48	39	37	35	32	29	28	25	17	16
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

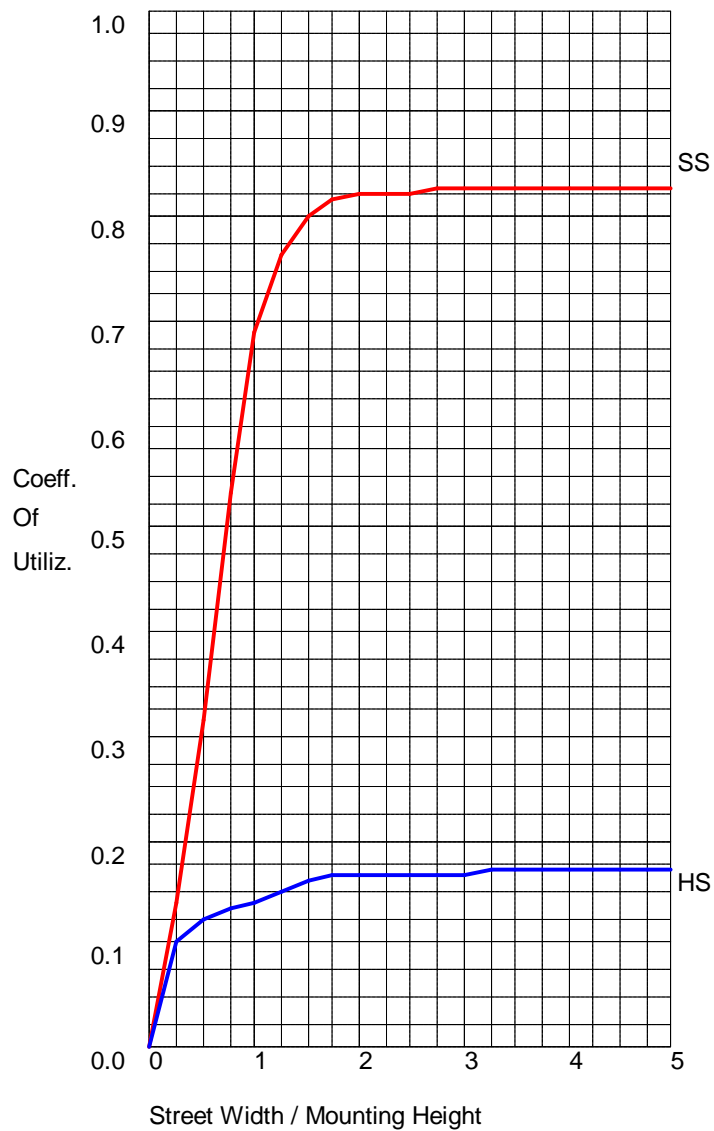
	175.0	180.0
0.0	17450	17450
2.5	17291	17428
5.0	16986	17173
7.5	16973	17047
10.0	15919	16004
12.5	11900	12194
15.0	6894	7139
17.5	2503	2328
20.0	1047	1011
22.5	861	850
25.0	808	816
27.5	816	874
30.0	1017	1069
32.5	1420	1470
35.0	1843	1865
37.5	1916	1920
40.0	2065	2071
42.5	2372	2348
45.0	2767	2774
47.5	3124	3124
50.0	3311	3295
52.5	3180	3154
55.0	2702	2682
57.5	2074	2046
60.0	1559	1537
62.5	1148	1147
65.0	743	744

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CANDELA TABULATION - (Cont.)

67.5	476	458
70.0	389	381
72.5	309	301
75.0	204	202
77.5	103	102
80.0	60	59
82.5	50	49
85.0	42	41
87.5	12	5
90.0	0	0

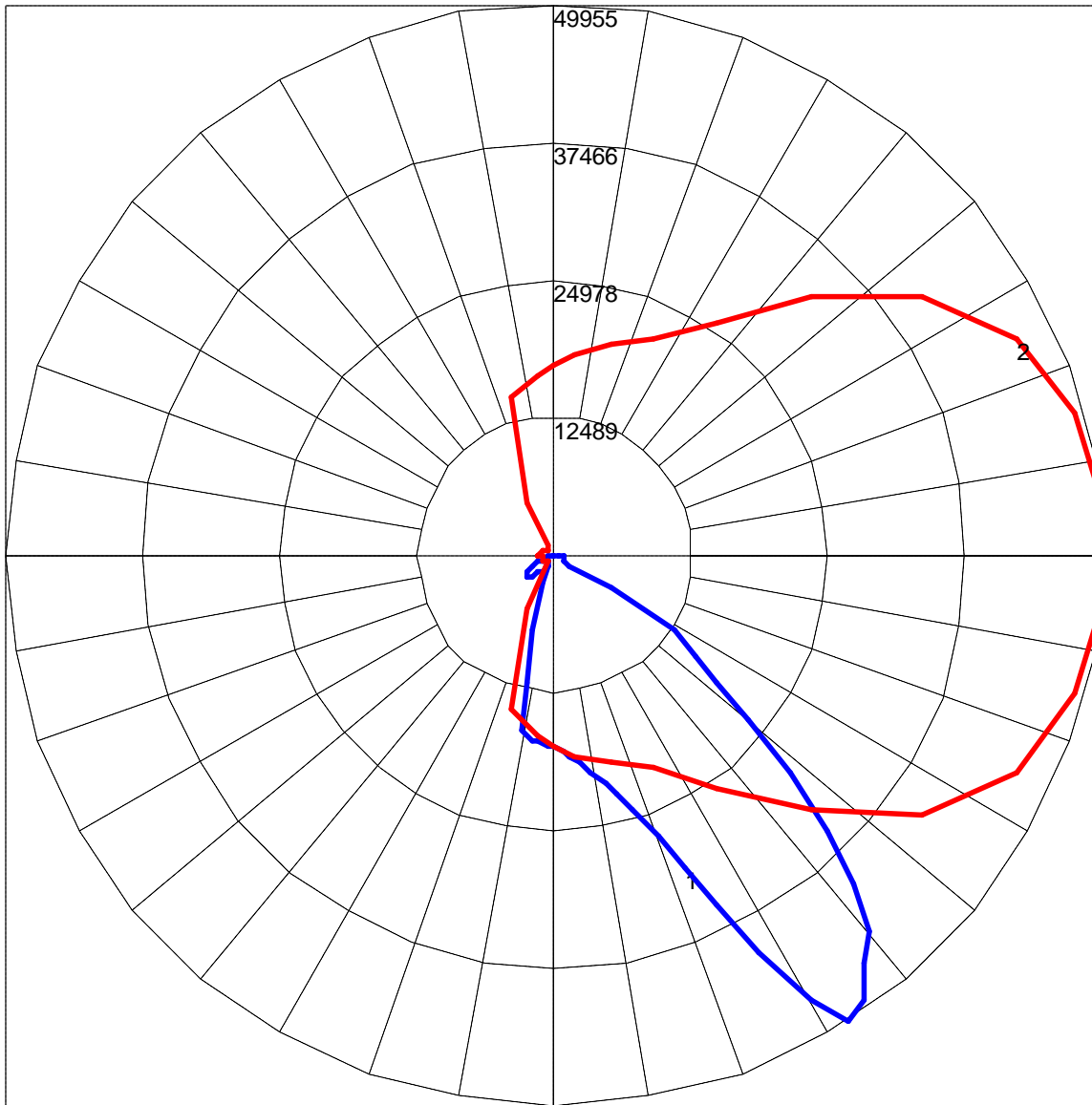
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

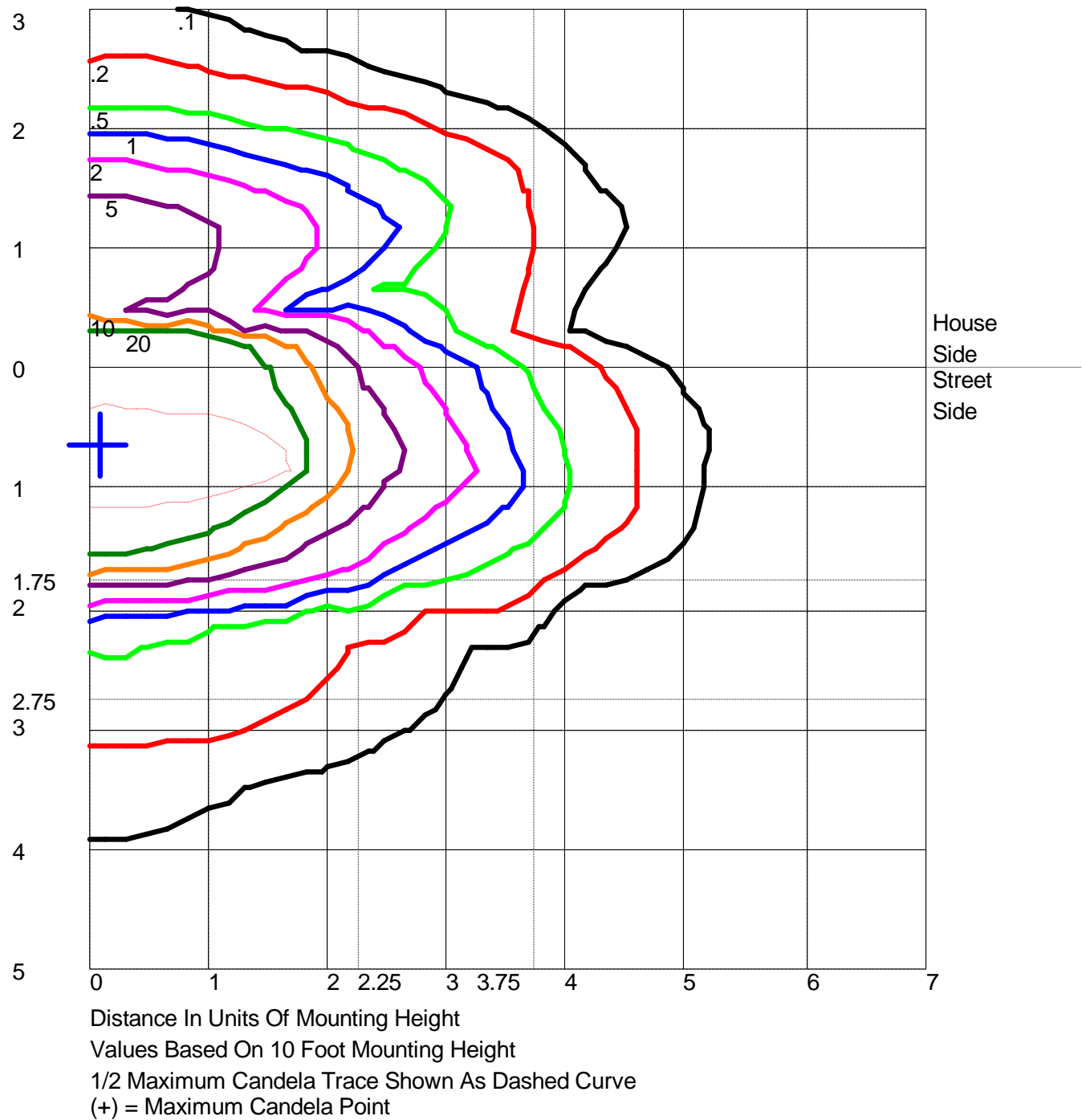
	Lumens	Percent Of Luminaire
Downward Street Side	49018.3	83.0
Downward House Side	10042.5	17.0
Downward Total	59060.8	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	59060.8	100.0

POLAR GRAPH

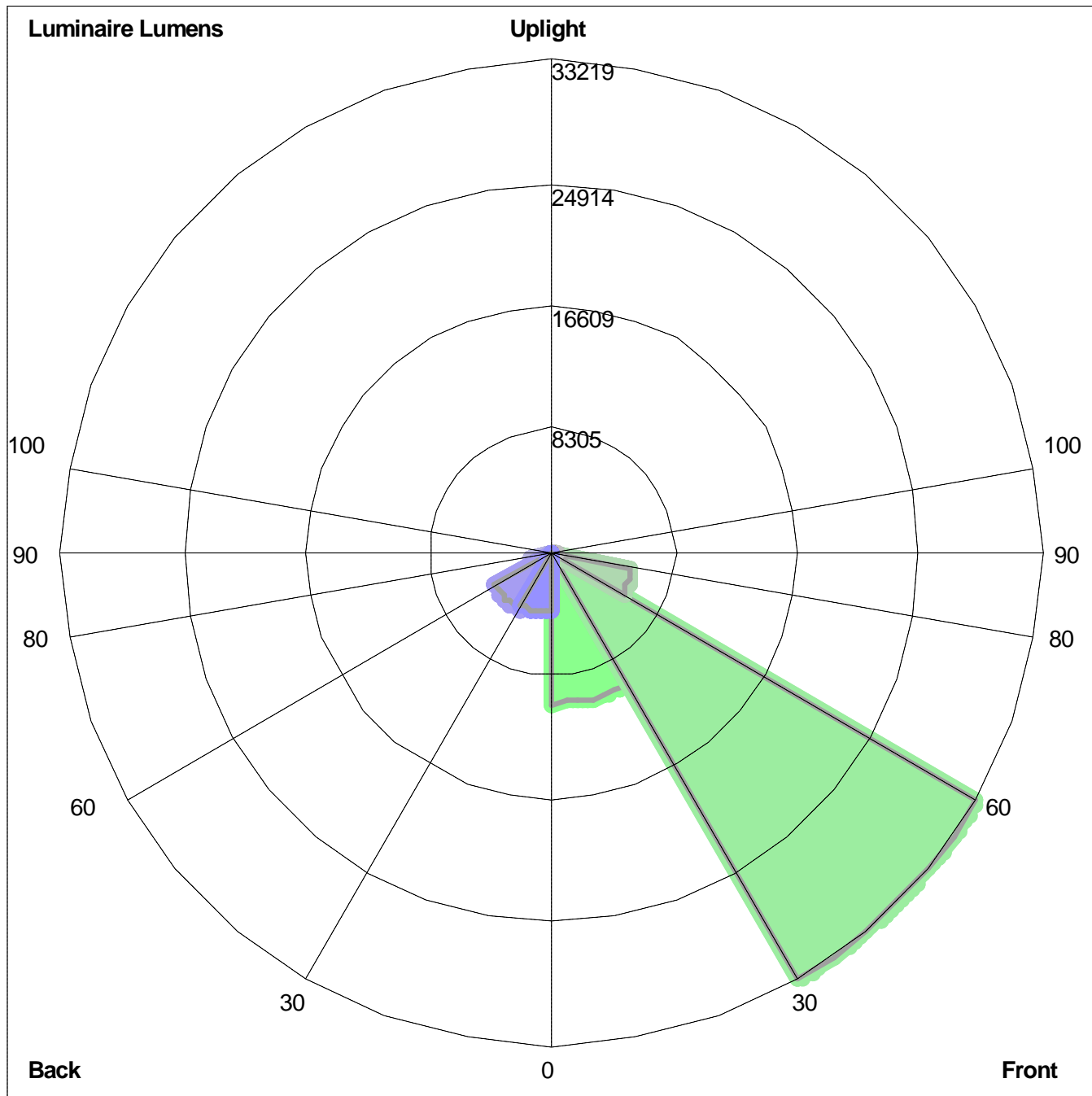


Maximum Candela = 49955 Located At Horizontal Angle = 7.5, Vertical Angle = 32.5
1 - Vertical Plane Through Horizontal Angles (7.5 - 187.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (32.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=10157.6, Medium=33218.8, High=5510.1, Very High=131.9
Back: Low=4113.9, Medium=4447.5, High=1438.9, Very High=42.3
Uplight: Low=0.0, High=0.0

BUG Rating : B4-U0-G3