



IES ROAD REPORT

PHOTOMETRIC FILENAME : ENM4-SAX-3-LED-18L-30-IL.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-11790
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 06/10/2020
[TEST DATE] 05/01/20
[MANUFACT] LSI INDUSTRIES, INC.
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER] TEST PROCEDURE: IESNA LM-79-08
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Outdoor
[LUMCAT] ENM4-SAX-3-LED-18L-30-IL
[FACTORED] SCALED FROM ORIGINAL TEST DATA

CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	15507
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	104
Total Luminaire Watts	149
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	16678
Maximum Candela Angle	52.5H 62.5V
Maximum Candela (<90 Degrees Vertical)	16678
Maximum Candela Angle (<90 Degrees Vertical)	52.5H 62.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	776 (5.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	795.1	N.A.	5.1
FM - Front-Medium (30-60)	8020.4	N.A.	51.7
FH - Front-High (60-80)	5012.1	N.A.	32.3
FVH - Front-Very High (80-90)	99.9	N.A.	0.6
BL - Back-Low (0-30)	442.8	N.A.	2.9
BM - Back-Medium (30-60)	924.0	N.A.	6.0
BH - Back-High (60-80)	201.9	N.A.	1.3
BVH - Back-Very High (80-90)	10.5	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	15506.7	N.A.	100.0
BUG Rating	B1-U0-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>52.5</u>	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>
0.0	1420	1420	1420	1420	1420	1420	1420	1420	1420	1420
2.5	1401	1403	1404	1407	1402	1405	1403	1409	1413	1414
5.0	1381	1382	1386	1391	1394	1398	1398	1404	1409	1413
7.5	1343	1347	1355	1362	1377	1390	1392	1401	1410	1416
10.0	1315	1320	1330	1343	1359	1375	1389	1398	1417	1422
12.5	1310	1315	1324	1343	1360	1384	1400	1408	1435	1442
15.0	1337	1339	1352	1380	1409	1431	1445	1453	1469	1472
17.5	1415	1424	1436	1466	1505	1518	1535	1539	1540	1530
20.0	1568	1580	1589	1615	1651	1674	1684	1685	1669	1637
22.5	1808	1820	1841	1847	1881	1923	1918	1915	1885	1831
25.0	2111	2139	2153	2178	2221	2271	2261	2253	2209	2100
27.5	2502	2528	2557	2587	2650	2728	2732	2691	2625	2431
30.0	2911	2936	2989	3039	3155	3238	3240	3220	3083	2798
32.5	3321	3315	3394	3496	3672	3777	3774	3748	3547	3182
35.0	3737	3743	3820	3983	4182	4321	4319	4272	4033	3551
37.5	4225	4246	4330	4512	4698	4862	4860	4790	4478	3871
40.0	4834	4864	4939	5104	5246	5417	5389	5290	4863	4133
42.5	5568	5600	5683	5827	5951	5983	5920	5787	5195	4388
45.0	6520	6558	6621	6742	6761	6618	6449	6268	5523	4650
47.5	7708	7814	7993	7969	7854	7523	7070	6828	5900	5027
50.0	8818	8977	9196	9327	9152	8582	7905	7597	6451	5808
52.5	9675	9765	10421	11029	10895	9930	9088	8680	7532	6931
55.0	10175	10327	11060	12159	12408	11643	10870	10469	9172	8225
57.5	9287	9416	10707	12457	13562	13315	13071	12834	11489	8970
60.0	7038	7250	8736	11277	13788	14835	15405	15329	12749	9368
62.5	4047	4269	5685	8400	12403	15385	16678	16613	13389	9544
65.0	1664	1810	2648	4976	9296	14169	16418	16614	13501	8855
67.5	909	952	1270	2322	6032	10948	14588	15230	12281	6920
70.0	559	589	734	1310	3057	6987	11056	12140	9215	4748
72.5	389	404	508	882	1763	3605	6425	7387	5821	2075
75.0	263	274	360	694	1274	1806	2860	3545	2502	813
77.5	186	193	261	550	1028	1074	1167	1367	1213	436
80.0	142	150	202	427	776	676	561	570	602	271
82.5	109	118	165	344	512	406	294	290	306	200
85.0	82	86	129	265	329	209	158	159	163	135
87.5	53	58	90	167	124	73	61	59	59	61
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	1420	1420	1420	1420	1420	1420	1420	1420	1420	1420
2.5	1421	1429	1429	1429	1438	1444	1440	1441	1436	1436
5.0	1429	1433	1441	1441	1459	1473	1476	1476	1481	1481
7.5	1434	1438	1450	1458	1479	1500	1501	1494	1490	1481
10.0	1438	1447	1461	1475	1501	1513	1486	1424	1356	1296
12.5	1444	1450	1471	1489	1508	1477	1354	1201	1078	977
15.0	1463	1466	1481	1499	1492	1343	1117	943	835	771
17.5	1505	1490	1501	1508	1424	1148	900	790	716	670
20.0	1586	1553	1540	1521	1298	965	783	706	655	611
22.5	1727	1666	1611	1519	1147	862	717	658	633	573
25.0	1915	1796	1704	1480	1017	801	669	631	647	596
27.5	2127	1948	1804	1404	934	754	636	622	712	692

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CANDELA TABULATION - (Cont.)

30.0	2358	2115	1901	1314	870	719	607	636	828	834
32.5	2596	2275	1987	1234	799	694	591	660	959	959
35.0	2821	2415	2054	1173	742	674	568	666	1105	1078
37.5	3002	2525	2104	1106	689	646	544	651	1251	1263
40.0	3152	2617	2140	1041	643	604	516	618	1392	1298
42.5	3330	2723	2173	1001	605	565	483	561	1449	947
45.0	3571	2921	2275	1014	571	525	439	499	1183	655
47.5	4092	3276	2459	1058	540	476	385	422	655	483
50.0	4792	3754	2665	1099	491	391	310	351	361	378
52.5	5608	4238	2864	1131	410	272	214	246	237	314
55.0	6149	4496	2909	1102	303	181	153	161	165	260
57.5	6469	4558	2797	985	221	144	121	114	124	212
60.0	6687	4431	2445	825	189	128	100	89	98	176
62.5	6460	3859	1782	628	172	115	86	70	80	152
65.0	5457	3091	1246	446	152	100	73	58	66	128
67.5	3974	2221	786	285	122	78	56	46	48	108
70.0	2082	1142	424	176	88	57	38	33	34	86
72.5	775	493	245	124	62	39	26	22	21	62
75.0	379	286	187	104	46	27	16	14	11	41
77.5	217	188	153	92	35	19	10	10	6	27
80.0	163	144	129	80	26	12	8	7	5	16
82.5	118	106	104	61	16	10	8	5	5	10
85.0	75	70	75	37	10	8	8	5	4	5
87.5	35	29	37	16	7	7	6	5	4	4
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

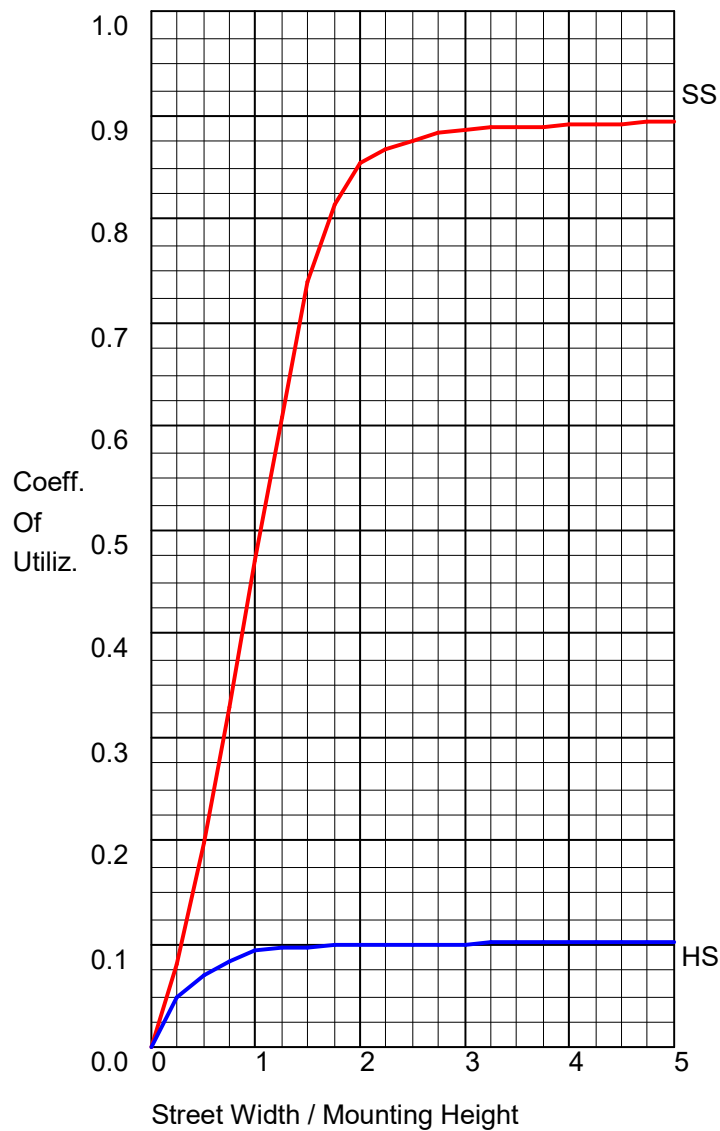
	<u>175.0</u>	<u>180.0</u>
0.0	1420	1420
2.5	1430	1438
5.0	1469	1476
7.5	1462	1456
10.0	1253	1231
12.5	930	919
15.0	741	734
17.5	645	642
20.0	581	579
22.5	537	532
25.0	537	528
27.5	584	566
30.0	667	631
32.5	708	664
35.0	772	724
37.5	772	691
40.0	593	519
42.5	421	373
45.0	323	293
47.5	268	237
50.0	239	198
52.5	222	171
55.0	212	159
57.5	214	164
60.0	222	180
62.5	229	198
65.0	229	213

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CANDELA TABULATION - (Cont.)

67.5	218	208
70.0	190	185
72.5	152	150
75.0	109	112
77.5	75	83
80.0	53	59
82.5	37	39
85.0	22	25
87.5	12	13
90.0	0	0

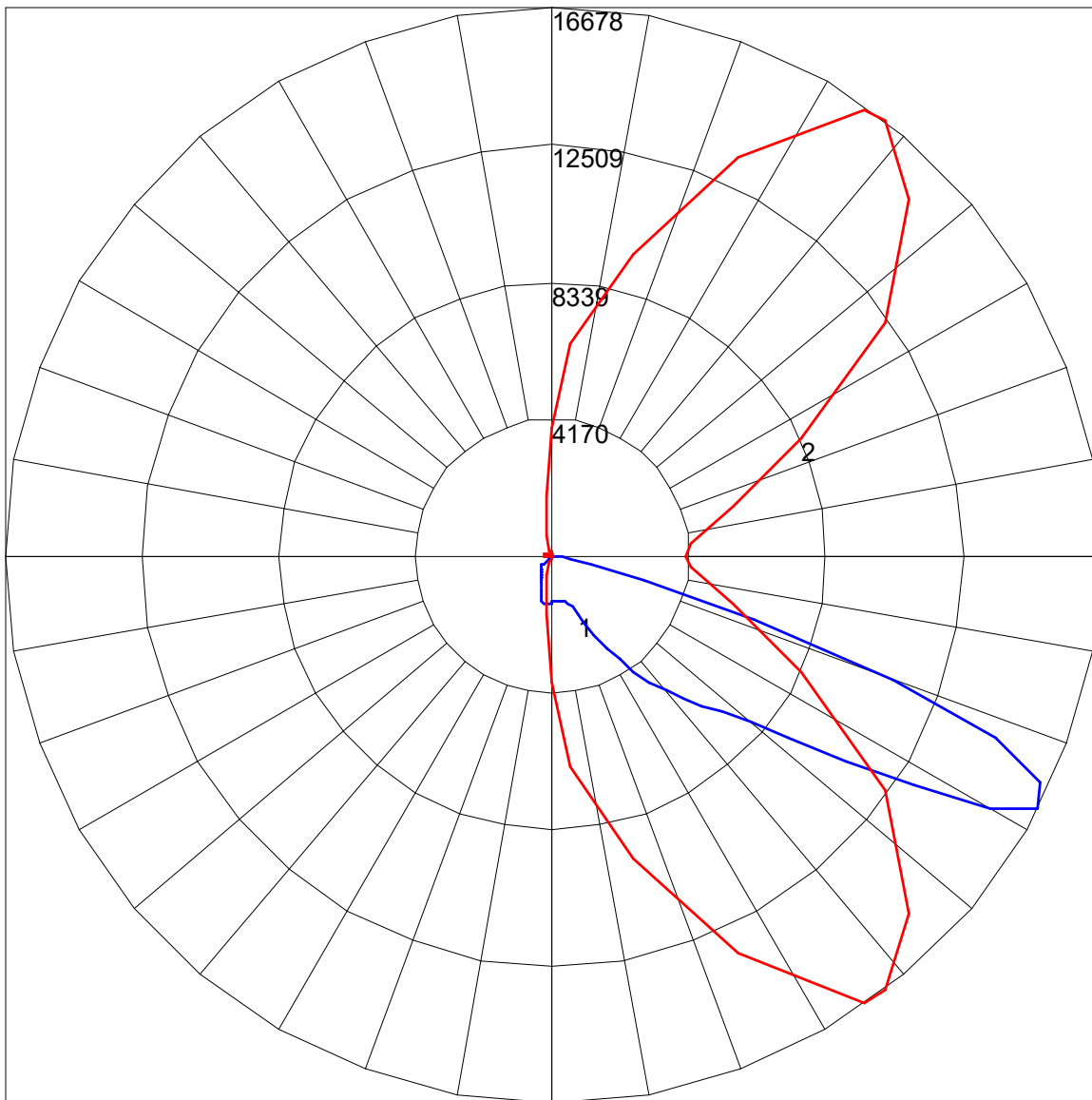
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

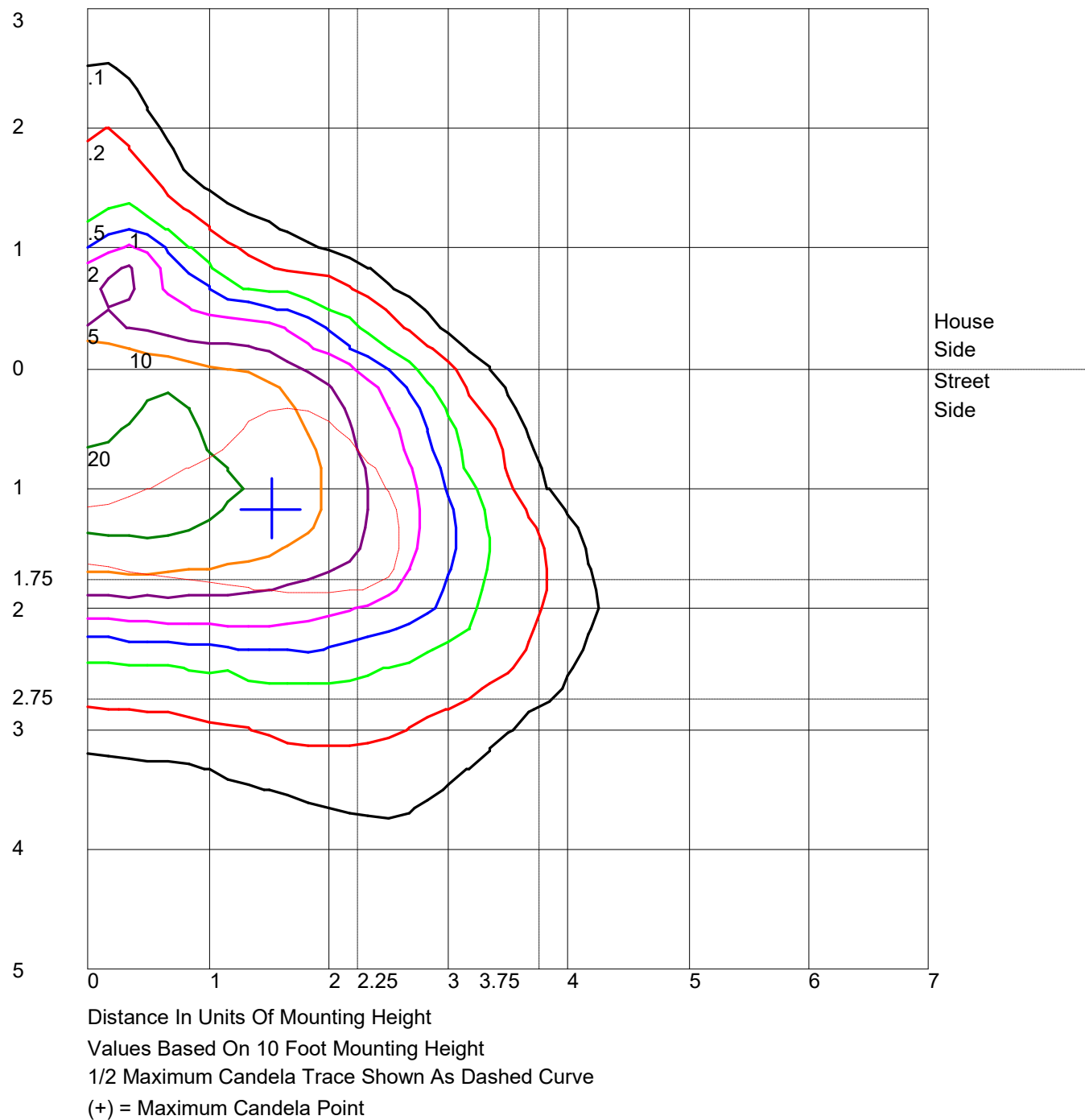
	Lumens	Percent Of Luminaire
Downward Street Side	13927.5	89.8
Downward House Side	1579.2	10.2
Downward Total	15506.7	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	15506.7	100.0

POLAR GRAPH

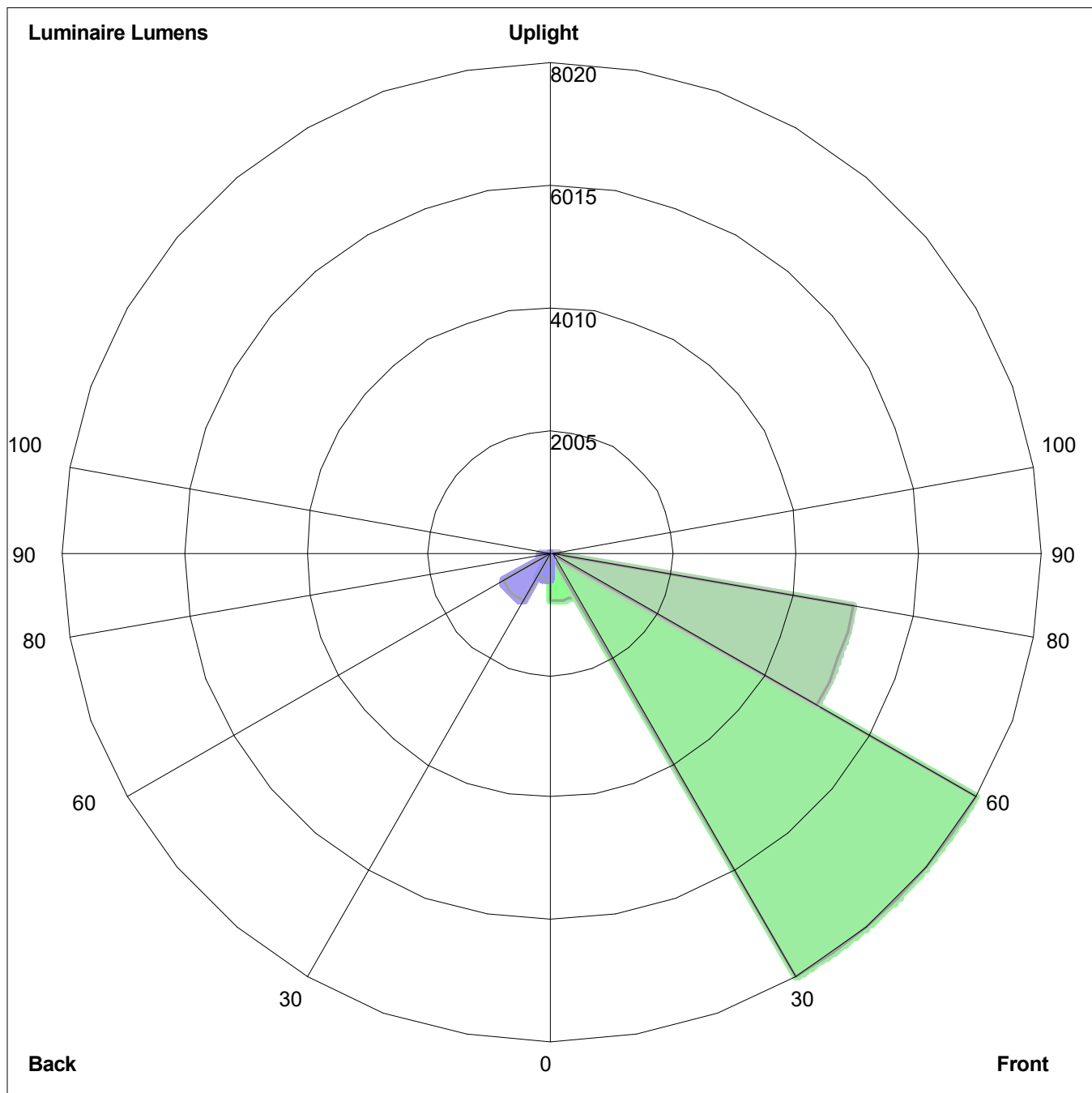


Maximum Candela = 16678 Located At Horizontal Angle = 52.5, Vertical Angle = 62.5
1 - Vertical Plane Through Horizontal Angles (52.5 - 232.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (62.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=795.1, Medium=8020.4, High=5012.1, Very High=99.9
Back: Low=442.8, Medium=924.0, High=201.9, Very High=10.5
Uplight: Low=0.0, High=0.0

BUG Rating : B1-U0-G3