



IES ROAD REPORT

PHOTOMETRIC FILENAME : ENM4-SAX-2-LED-05L-50-IL.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-11792
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 06/10/2020
[TEST DATE] 05/01/20
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] ENM4-SAX-2-LED-05L-50-IL
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER] TEST PROCEDURE: IESNA LM-79-08
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Outdoor
[FACTORED] SCALED FROM ORIGINAL TEST DATA

CHARACTERISTICS

IES Classification	Type II
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4588
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	118
Total Luminaire Watts	39
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	4180
Maximum Candela Angle	75H 65V
Maximum Candela (<90 Degrees Vertical)	4180
Maximum Candela Angle (<90 Degrees Vertical)	75H 65V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	255 (5.6% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	446.8	N.A.	9.7
FM - Front-Medium (30-60)	2177.6	N.A.	47.5
FH - Front-High (60-80)	1079.9	N.A.	23.5
FVH - Front-Very High (80-90)	18.7	N.A.	0.4
BL - Back-Low (0-30)	294.1	N.A.	6.4
BM - Back-Medium (30-60)	438.2	N.A.	9.6
BH - Back-High (60-80)	131.6	N.A.	2.9
BVH - Back-Very High (80-90)	1.5	N.A.	0.0
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	4588.4	N.A.	100.0
BUG Rating	B1-U0-G1		

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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>65.0</u>	<u>75.0</u>	<u>77.5</u>
0.0	845	845	845	845	845	845	845	845	845	845
2.5	861	860	864	862	860	859	857	850	852	843
5.0	885	878	880	882	880	877	876	869	864	855
7.5	898	896	899	899	901	898	898	889	886	875
10.0	911	909	916	918	920	923	922	917	907	901
12.5	932	929	933	937	946	948	949	948	940	933
15.0	946	944	951	960	971	979	983	981	973	971
17.5	960	963	973	982	997	1014	1024	1023	1021	1017
20.0	984	990	996	1013	1028	1051	1062	1075	1074	1064
22.5	1023	1026	1038	1052	1072	1089	1113	1132	1128	1122
25.0	1072	1075	1087	1099	1115	1138	1168	1191	1195	1190
27.5	1126	1129	1137	1159	1180	1201	1221	1257	1265	1260
30.0	1197	1201	1214	1226	1255	1276	1300	1329	1339	1339
32.5	1280	1283	1294	1318	1339	1365	1380	1404	1423	1428
35.0	1367	1366	1387	1414	1448	1468	1473	1487	1507	1515
37.5	1459	1461	1477	1513	1555	1583	1577	1583	1603	1619
40.0	1553	1556	1576	1621	1678	1713	1709	1699	1717	1735
42.5	1629	1639	1667	1730	1808	1858	1849	1826	1835	1887
45.0	1684	1694	1740	1812	1916	2007	2012	1971	1989	2023
47.5	1704	1699	1757	1863	1999	2151	2212	2152	2160	2192
50.0	1645	1638	1705	1841	2056	2278	2415	2393	2387	2415
52.5	1501	1505	1574	1723	2002	2373	2647	2666	2662	2693
55.0	1281	1281	1362	1529	1848	2369	2866	2956	2965	3005
57.5	993	1001	1089	1246	1576	2239	3018	3279	3335	3377
60.0	672	679	759	917	1237	1955	3048	3622	3725	3758
62.5	370	382	443	566	833	1550	2922	3809	4023	4066
65.0	198	199	235	311	495	1115	2575	3712	4180	4143
67.5	121	125	135	186	294	702	1982	3252	3922	3835
70.0	79	79	86	114	189	401	1336	2478	3004	2852
72.5	52	54	57	75	128	256	782	1574	1777	1604
75.0	31	33	34	44	83	188	382	940	877	722
77.5	17	18	19	23	47	130	201	516	446	354
80.0	15	15	15	16	22	72	119	217	255	208
82.5	16	16	15	16	18	29	55	78	149	129
85.0	13	13	12	13	15	23	26	37	66	62
87.5	8	7	7	7	8	14	17	23	23	23
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	845	845	845	845	845	845	845	845	845	845
2.5	852	847	848	843	839	839	836	834	835	837
5.0	863	857	852	842	838	832	826	822	815	814
7.5	877	867	868	848	839	824	815	807	801	797
10.0	900	892	880	856	842	822	810	795	784	778
12.5	929	917	906	870	846	822	796	777	769	759
15.0	964	949	930	889	856	814	783	768	755	750
17.5	1004	983	968	905	857	811	774	752	732	710
20.0	1054	1030	1005	932	863	803	761	717	633	560
22.5	1109	1084	1051	960	866	800	731	589	466	374
25.0	1169	1134	1093	986	874	782	613	434	288	202
27.5	1239	1203	1154	1013	876	728	470	262	171	140

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CANDELA TABULATION - (Cont.)

30.0	1317	1272	1209	1034	880	614	317	168	132	120
32.5	1400	1350	1275	1059	855	483	197	134	117	108
35.0	1489	1432	1336	1081	784	335	149	119	107	100
37.5	1591	1520	1414	1107	677	214	127	107	98	89
40.0	1698	1623	1486	1122	543	156	113	98	86	76
42.5	1829	1735	1576	1116	377	132	102	87	71	59
45.0	1967	1851	1667	1078	233	118	91	72	55	43
47.5	2130	1997	1758	988	168	106	80	57	39	29
50.0	2339	2162	1869	845	138	92	65	41	27	21
52.5	2581	2366	1984	652	119	78	48	27	18	14
55.0	2869	2579	2083	430	105	64	35	18	12	8
57.5	3181	2794	2152	278	96	49	23	12	7	5
60.0	3470	2916	2156	212	89	38	15	6	3	2
62.5	3664	2933	2011	170	83	28	8	2	1	1
65.0	3624	2758	1685	136	70	20	4	1	1	1
67.5	3099	2211	1192	104	49	13	2	1	1	0
70.0	2078	1383	656	73	31	7	1	1	1	0
72.5	961	673	306	54	18	3	1	1	0	0
75.0	370	295	145	34	9	2	1	0	0	0
77.5	190	170	82	19	4	1	0	0	0	0
80.0	122	106	51	8	2	0	0	0	0	0
82.5	80	57	28	3	1	0	0	0	0	0
85.0	45	28	12	1	0	0	0	0	0	0
87.5	16	7	1	0	0	0	0	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

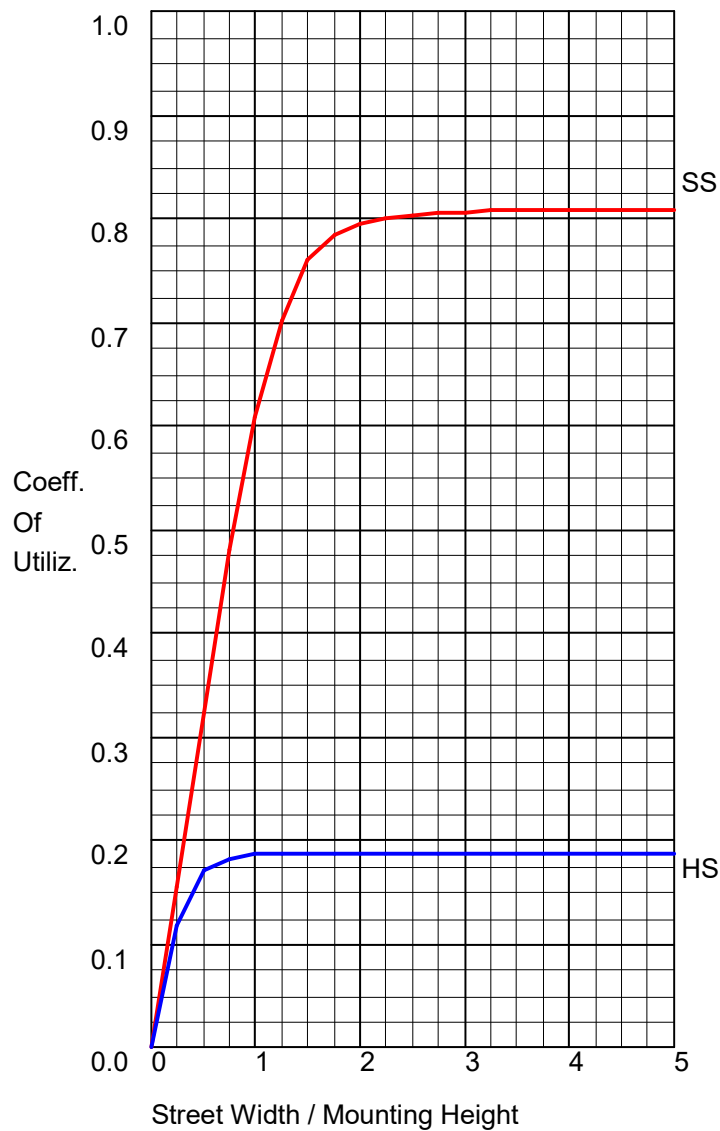
	<u>175.0</u>	<u>180.0</u>
0.0	845	845
2.5	831	831
5.0	815	812
7.5	794	790
10.0	773	770
12.5	757	757
15.0	741	738
17.5	684	676
20.0	513	508
22.5	318	313
25.0	175	173
27.5	130	128
30.0	114	113
32.5	104	103
35.0	94	94
37.5	84	83
40.0	70	69
42.5	54	51
45.0	38	37
47.5	26	25
50.0	18	17
52.5	12	12
55.0	7	7
57.5	3	3
60.0	1	1
62.5	0	0
65.0	0	0

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CANDELA TABULATION - (Cont.)

67.5	0	0
70.0	0	0
72.5	0	0
75.0	0	0
77.5	0	0
80.0	0	0
82.5	0	0
85.0	0	0
87.5	0	0
90.0	0	0

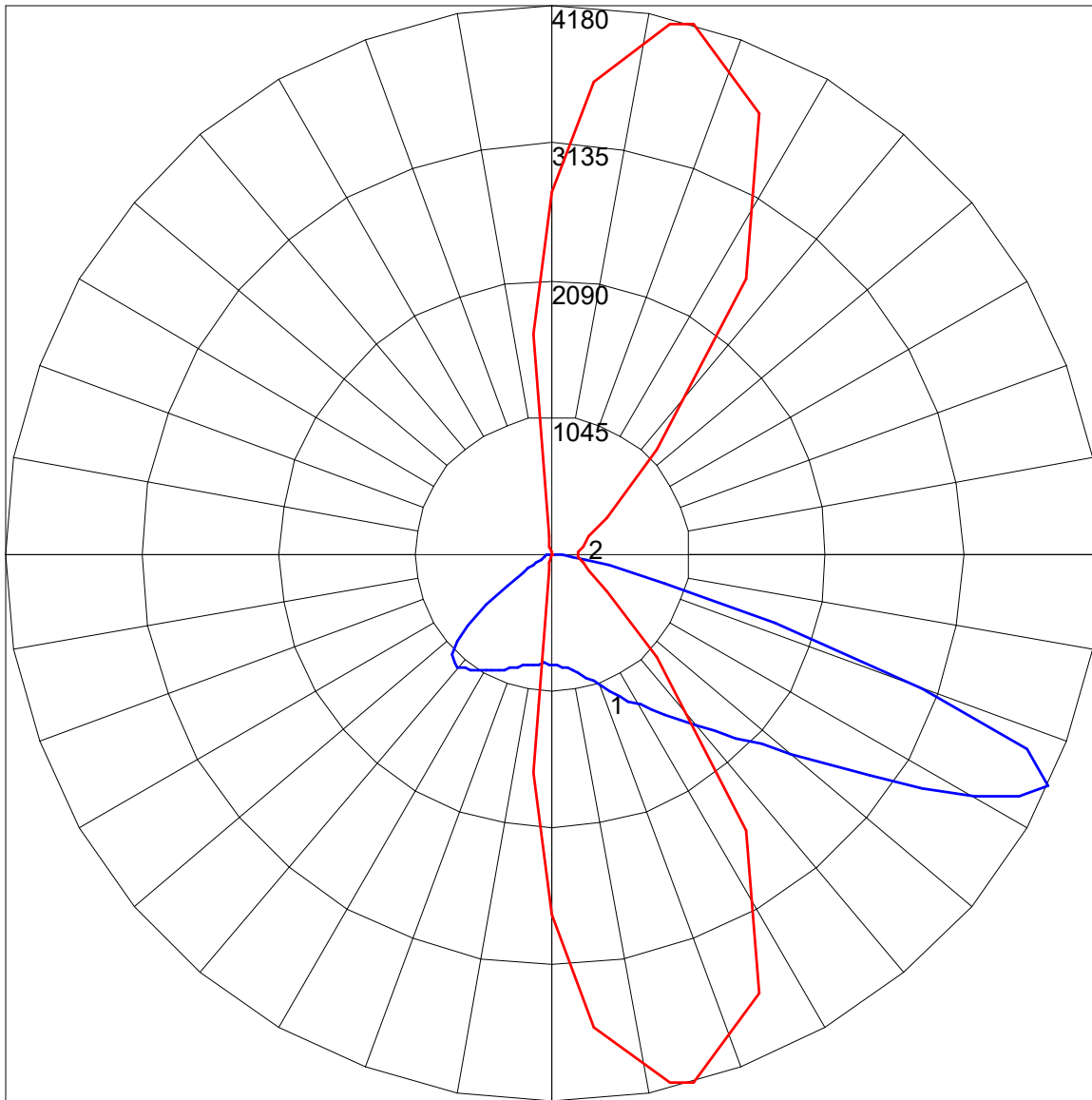
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

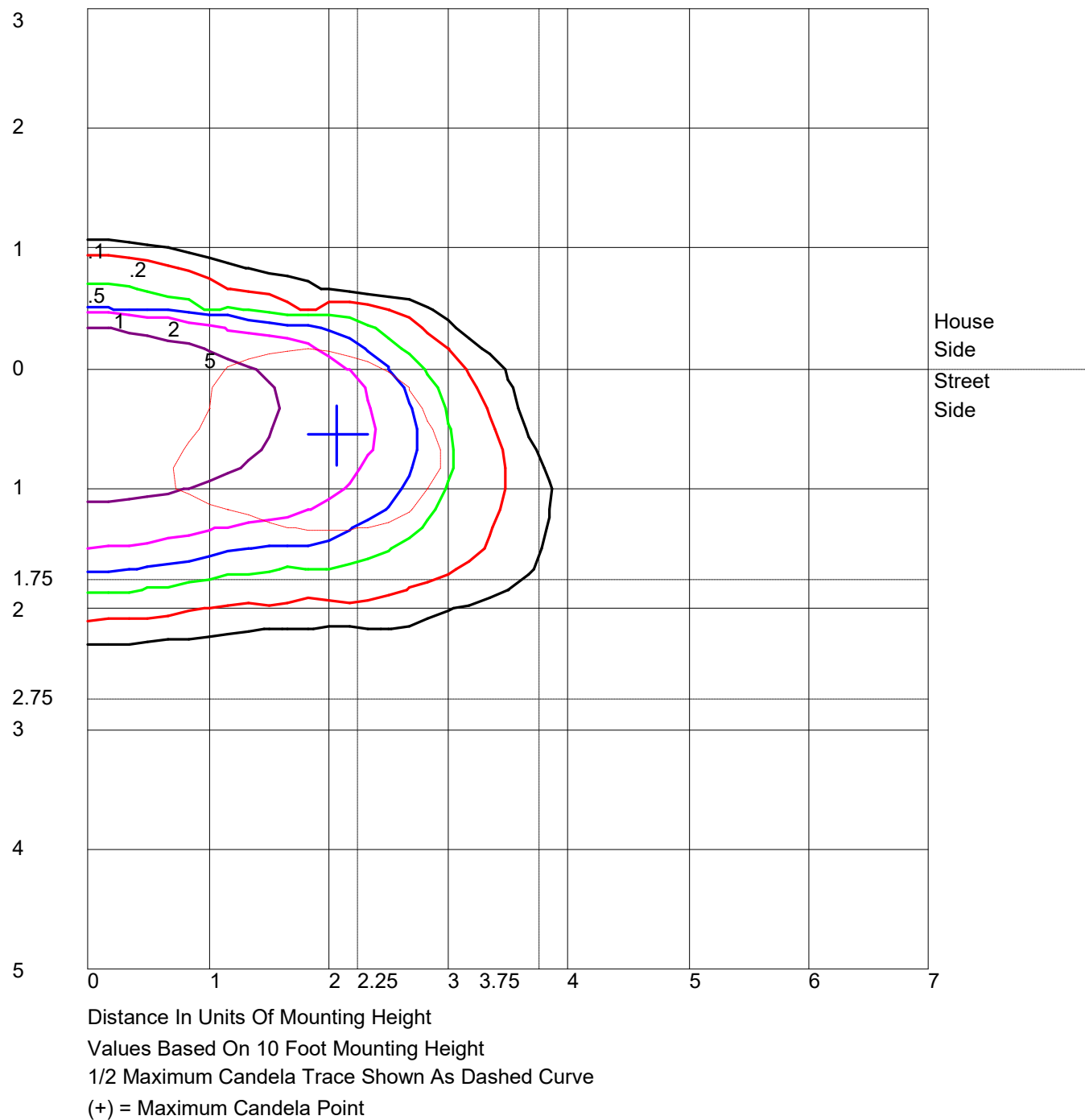
	Lumens	Percent Of Luminaire
Downward Street Side	3723.0	81.1
Downward House Side	865.4	18.9
Downward Total	4588.4	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	4588.4	100.0

POLAR GRAPH

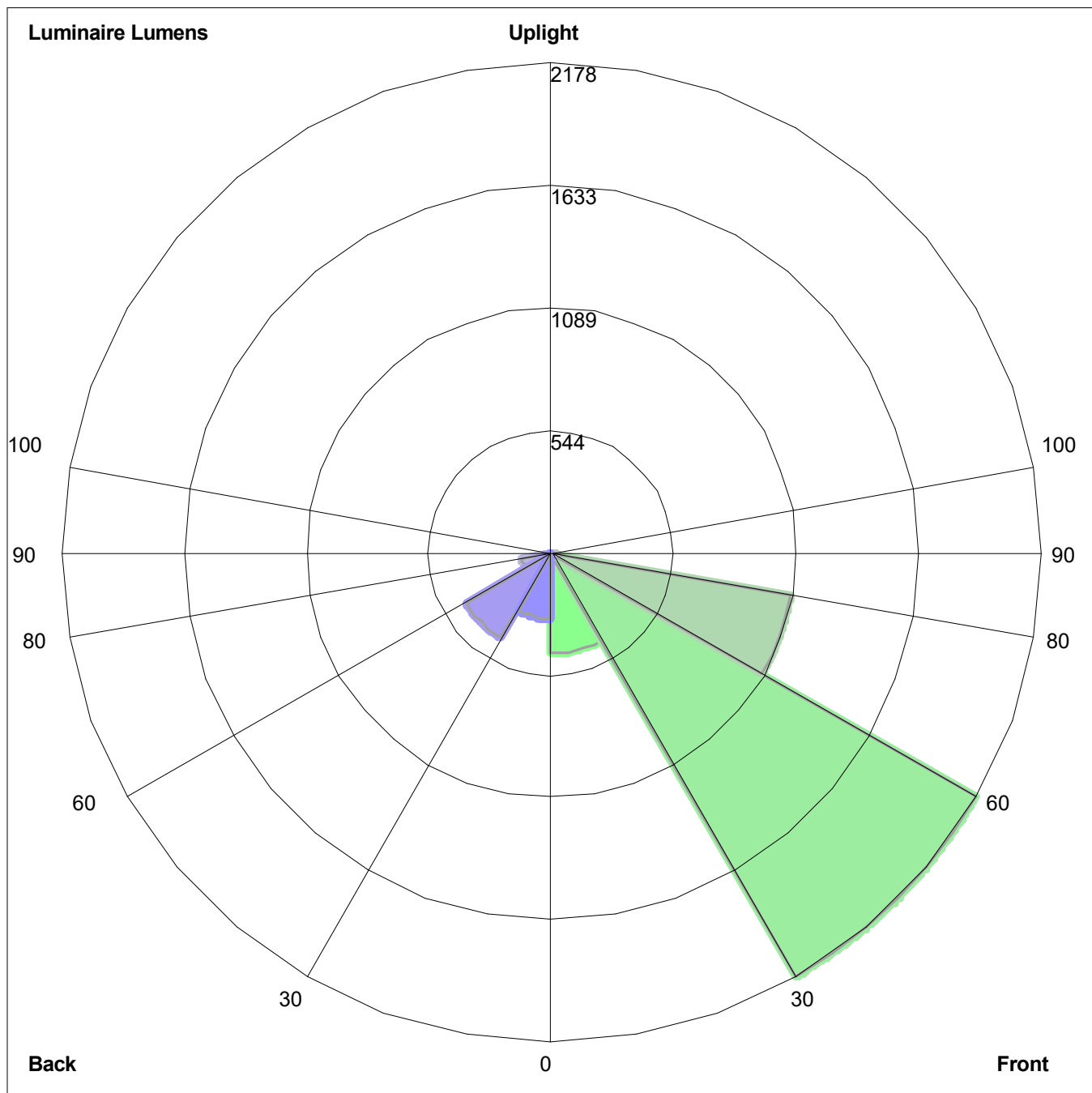


Maximum Candela = 4180 Located At Horizontal Angle = 75, Vertical Angle = 65
1 - Vertical Plane Through Horizontal Angles (75 - 255) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=446.8, Medium=2177.6, High=1079.9, Very High=18.7
Back: Low=294.1, Medium=438.2, High=131.6, Very High=1.5
Uplight: Low=0.0, High=0.0

BUG Rating : B1-U0-G1