IES ROAD REPORT
PHOTOMETRIC FILENAME : CRUS_SM-AC-VHO-50.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-12156
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUEDATE] 08/27/20
[TESTDATE] 08/19/20
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] CRUS_SM-AC-VHO-50
[OTHER] TEST PROCEDURE: IESNA LM-79-08
[_ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[_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	18502
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	122
Total Luminaire Watts	152
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	9809
Maximum Candela Angle	2.5H 25V
Maximum Candela (<90 Degrees Vertical)	9809
Maximum Candela Angle (<90 Degrees Vertical)	2.5H 25V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1917 (10.4% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	3168.3	N.A.	17.1
FM - Front-Medium (30-60)	7219.1	N.A.	39.0
FH - Front-High (60-80)	3166.2	N.A.	17.1
FVH - Front-Very High (80-90)	225.0	N.A.	1.2
BL - Back-Low (0-30)	1467.8	N.A.	7.9
BM - Back-Medium (30-60)	2064.7	N.A.	11.2
BH - Back-High (60-80)	1095.4	N.A.	5.9
BVH - Back-Very High (80-90)	95.5	N.A.	0.5
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	18502.0	N.A.	100.0
BUG Rating	B3-U0-G3		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0.0	2.5	5.0	15.0	25.0	35.0	45.0	55.0	65.0	75.0
0.0	7647	7647	7647	7647	7647	7647	7647	7647	7647	7647
2.5	7696	7657	7669	7692	7689	7672	7703	7702	7703	7709
5.0	7426	7403	7379	7409	7461	7461	7522	7559	7549	7605
7.5	7044	7036	7019	7054	7114	7179	7244	7294	7329	7345
10.0	6909	6938	6920	6928	6883	6889	6936	7026	7102	6998
12.5	7441	7395	7381	7293	7150	6933	6895	6802	6871	6835
15.0	7892	7901	7870	7800	7647	7326	7056	6956	6640	6734
17.5	8450	8432	8447	8361	8080	7679	7314	7229	6730	6733
20.0	9049	9024	9042	8933	8571	7996	7476	7252	7071	6674
22.5	9758	9755	9730	9489	8904	8144	7579	7230	7384	6563
25.0	9755	9809	9786	9709	9016	8030	7538	7208	7598	6471
27.5	8715	8719	8741	8815	8504	7893	7612	7254	7422	6453
30.0	8050	8027	8023	7967	7875	7723	7673	7351	7356	6512
32.5	7804	7814	7765	7706	7629	7555	7498	7369	7754	6544
35.0	7687	7678	7680	7600	7509	7434	7381	7230	7589	6659
37.5	7564	7528	7555	7508	7370	7280	7296	7209	7209	6813
40.0	7408	7370	7378	7297	7198	7109	7128	7216	6929	6735
42.5	7209	7182	7171	7110	6979	6908	6907	7071	6880	6533
45.0	6913	6883	6895	6819	6767	6685	6655	6752	6735	6206
47.5	6569	6585	6561	6520	6515	6466	6412	6399	6463	6099
50.0	6143	6154	6146	6147	6200	6190	6147	6077	6254	6019
52.5	5611	5614	5631	5755	5900	5874	5864	5831	5822	5976
55.0	5113	5138	5122	5288	5527	5562	5626	5604	5455	5678
57.5	4668	4687	4689	4827	5139	5272	5422	5358	5102	5011
60.0	4228	4222	4255	4417	4794	5028	5232	5098	4731	4424
62.5	3856	3856	3876	4003	4392	4804	5010	4728	4377	3954
65.0	3649	3636	3666	3826	4052	4546	4724	4337	3958	3422
67.5	3228	3289	3347	3816	3885	4313	4370	3803	3426	2985
70.0	2462	2504	2570	3818	3785	4099	3880	3244	2940	2587
72.5	2031	2048	2111	3701	3611	3672	3357	2710	2403	2183
75.0	1463	1491	1532	3364	3240	3013	2633	2163	1842	1751
77.5	660	658	722	2359	2603	2446	1740	1581	1341	1241
80.0	491	501	534	1565	1917	1813	1195	995	864	779
82.5	419	423	457	1074	1116	904	709	434	498	421
85.0	274	288	309	547	443	324	318	171	228	204
87.5	85	96	100	152	139	124	105	80	83	84
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles	Horizontal Angles									
	85.0	90.0	95.0	105.0	115.0	125.0	135.0	145.0	155.0	165.0
0.0	7647	7647	7647	7647	7647	7647	7647	7647	7647	7647
2.5	7671	7703	7673	7670	7653	7649	7570	7545	7556	7492
5.0	7588	7601	7585	7506	7406	7208	6981	6770	6470	6382
7.5	7328	7348	7313	7166	6896	6410	5818	5227	4857	4698
10.0	6946	6954	6875	6668	6160	5355	4614	4053	3821	3720
12.5	6505	6471	6394	6007	5328	4392	3728	3475	3344	3251
15.0	6137	5974	5887	5403	4562	3711	3267	3072	2967	2884
17.5	5987	5620	5492	4958	3955	3317	2923	2733	2628	2540
20.0	6105	5543	5199	4639	3645	3075	2633	2426	2316	2258
22.5	6301	5529	5032	4590	3439	2778	2353	2122	2040	2012
25.0	6359	5495	4974	4370	3111	2508	2072	1846	1821	1841
27.5	6399	5608	4956	4045	2899	2284	1809	1611	1639	1661

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CANDELA TABULATION - (Cont.)

30.0	6582	5756	4835	3817	2881	2023	1567	1398	1422	1404
32.5	6711	5688	4696	3898	2791	1810	1364	1200	1205	1205
35.0	6587	5557	4601	3928	2514	1645	1209	1047	1057	1133
37.5	6241	5350	4542	3612	2251	1535	1097	952	978	1098
40.0	6019	5203	4572	3279	2087	1425	1035	903	931	1035
42.5	5829	5101	4520	3111	2012	1331	992	869	880	938
45.0	5680	5069	4426	3060	1994	1276	961	837	826	845
47.5	5616	5204	4417	3119	2126	1275	939	802	774	777
50.0	5475	5272	4430	3274	2300	1330	926	764	722	730
52.5	5259	5106	4327	3464	2398	1395	918	730	682	683
55.0	4869	4778	4168	3557	2454	1433	910	699	640	639
57.5	4500	4332	3911	3545	2471	1467	906	666	598	587
60.0	4191	3955	3638	3474	2417	1484	903	633	548	533
62.5	3758	3574	3353	3252	2330	1469	887	597	508	506
65.0	3254	3143	3033	2896	2215	1421	839	564	472	475
67.5	2811	2728	2688	2574	2059	1317	770	522	441	443
70.0	2450	2364	2335	2331	1858	1201	708	483	406	410
72.5	2065	1942	1953	1983	1608	1093	645	431	363	376
75.0	1674	1545	1526	1542	1291	947	570	387	316	321
77.5	1172	1023	1056	1121	888	810	481	323	280	284
80.0	738	545	573	709	612	573	366	263	224	237
82.5	460	343	256	416	392	313	172	190	176	188
85.0	220	184	134	194	201	161	113	133	127	136
87.5	90	86	82	91	86	92	84	89	89	91
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles	**Horizontal Angles**	
	175.0	**180.0**
0.0	7647	7647
2.5	7519	7480
5.0	6302	6271
7.5	4575	4537
10.0	3666	3638
12.5	3229	3213
15.0	2829	2836
17.5	2491	2471
20.0	2200	2194
22.5	1980	1976
25.0	1828	1825
27.5	1608	1597
30.0	1342	1333
32.5	1205	1206
35.0	1176	1185
37.5	1141	1146
40.0	1060	1056
42.5	940	931
45.0	840	834
47.5	781	774
50.0	733	731
52.5	685	676
55.0	636	631
57.5	569	560
60.0	515	510
62.5	508	502
65.0	500	492

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CANDELA TABULATION - (Cont.)

67.5	457	450
70.0	411	394
72.5	363	343
75.0	302	281
77.5	242	218
80.0	205	183
82.5	184	165
85.0	138	125
87.5	93	88
90.0	0	0

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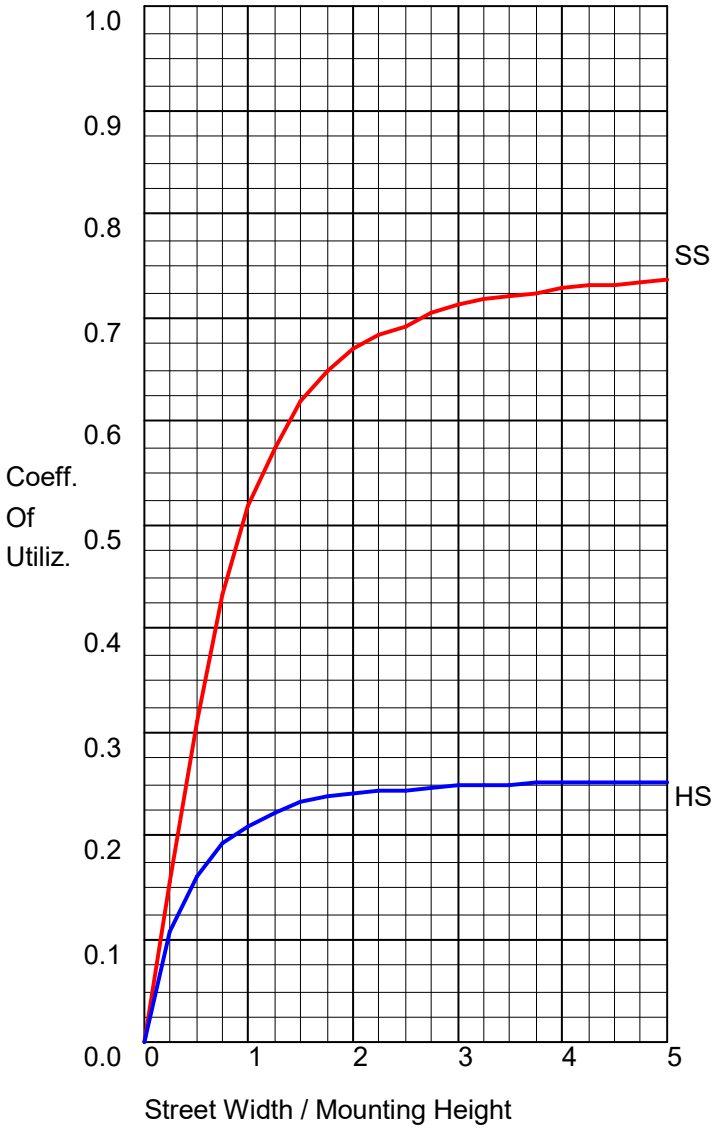
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	13778.6	74.5
Downward House Side	4723.5	25.5
Downward Total	18502.1	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	18502.1	100.0

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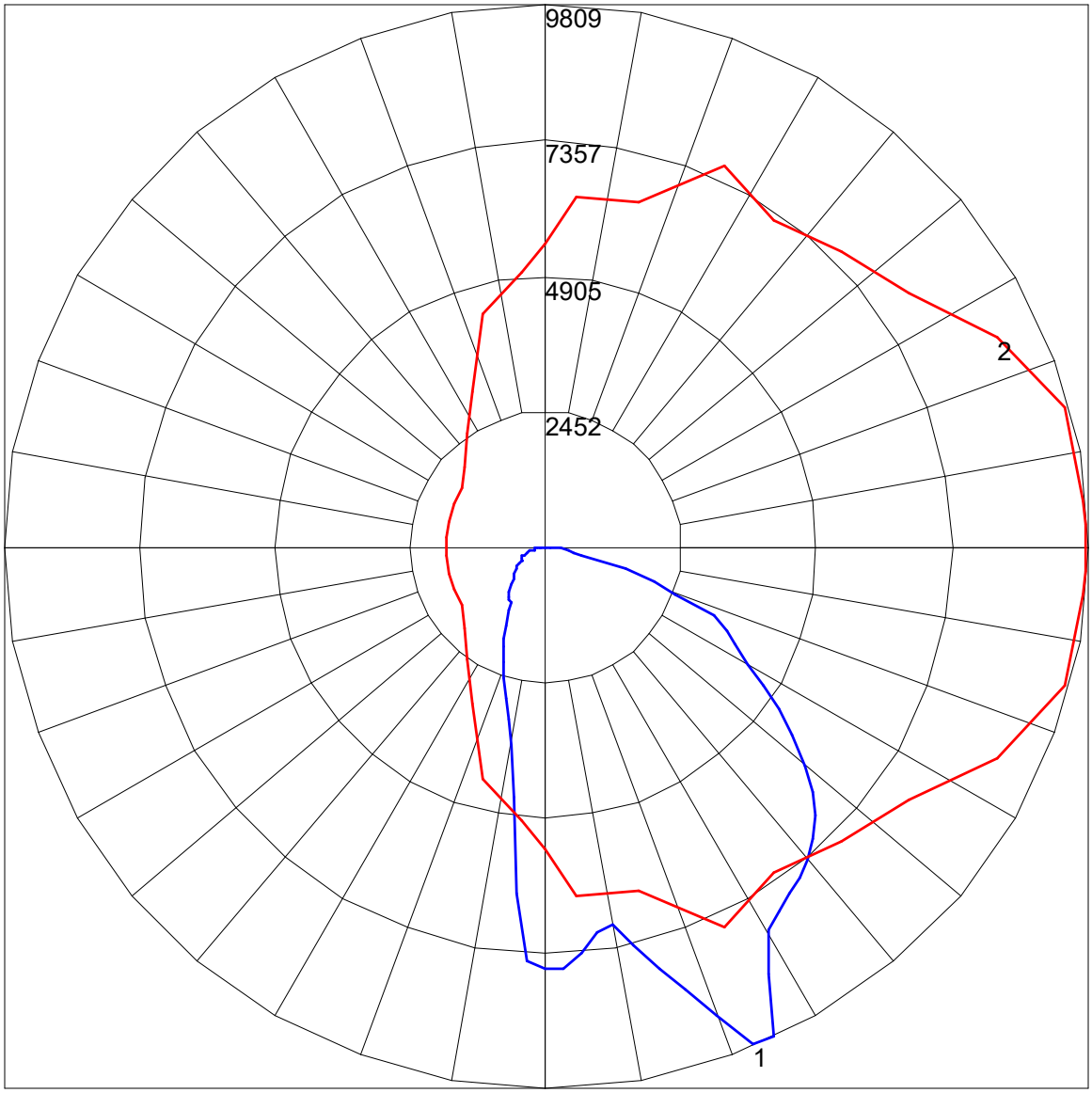
POLAR GRAPH



Maximum Candela = 9809 Located At Horizontal Angle = 2.5, Vertical Angle = 25
1 - Vertical Plane Through Horizontal Angles (2.5 - 182.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (25) (Through Max. Cd.)

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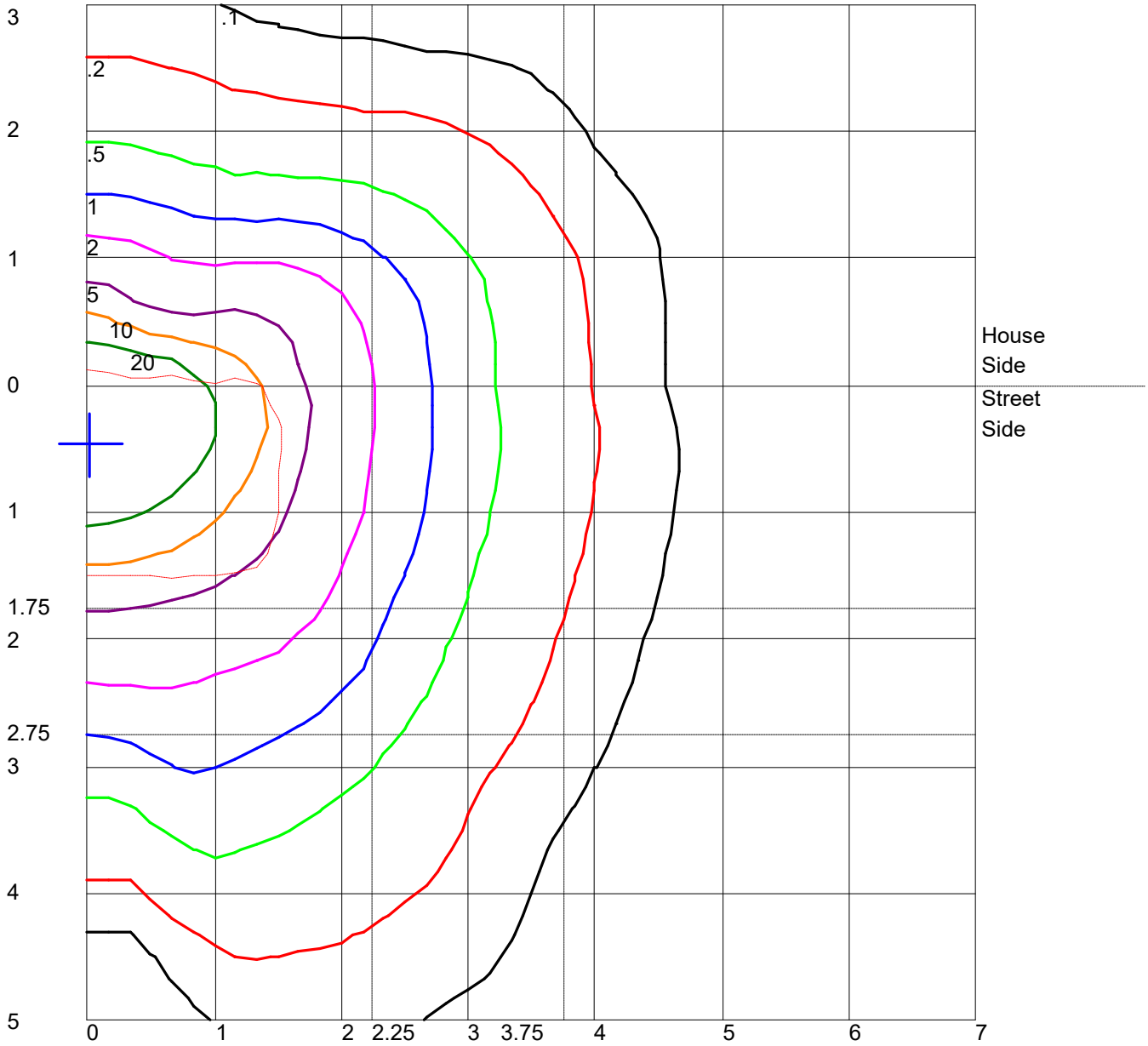
ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



Distance In Units Of Mounting Height
Values Based On 10 Foot Mounting Height
1/2 Maximum Candela Trace Shown As Dashed Curve
(+) = Maximum Candela Point

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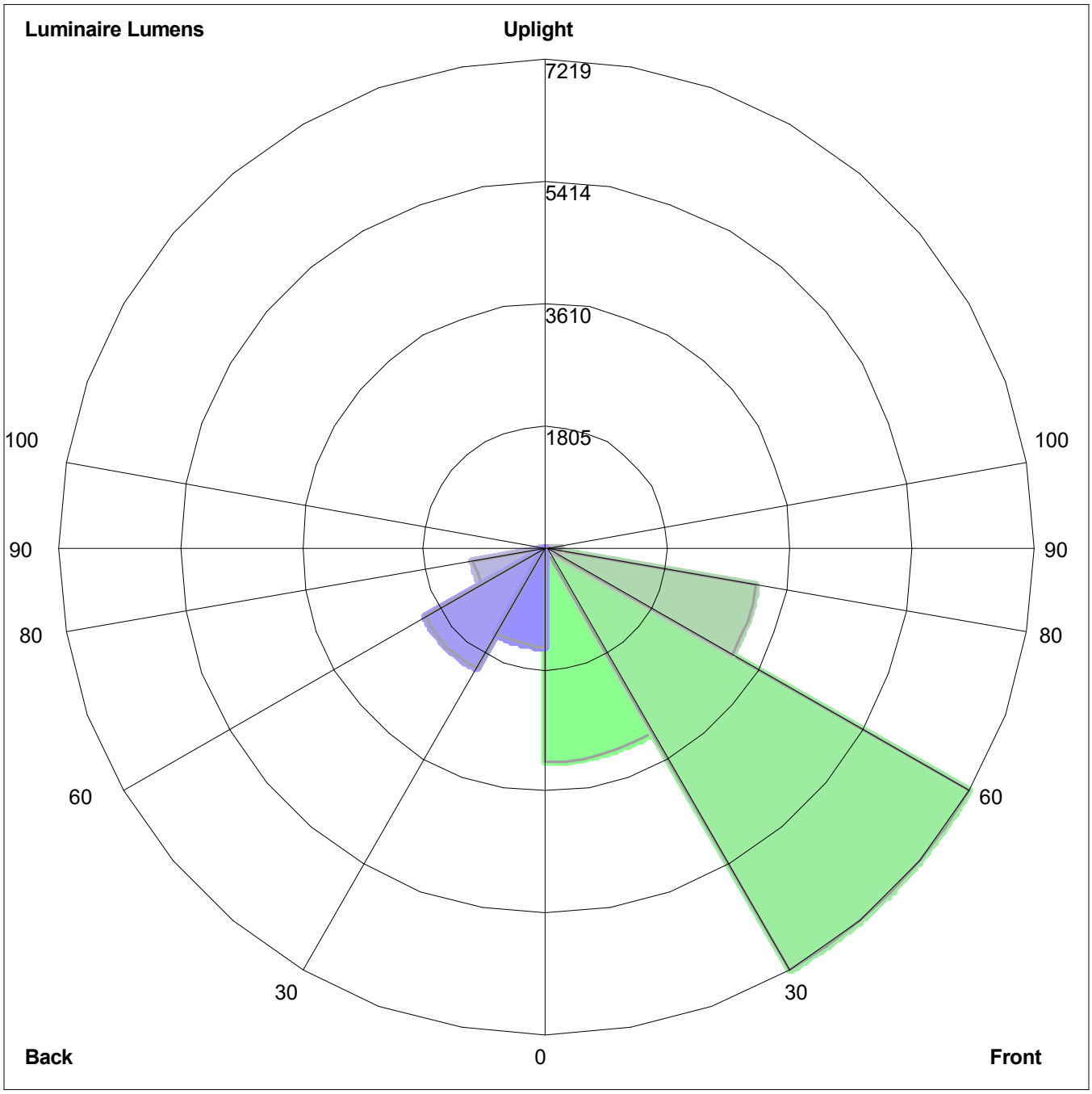
LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=3168.3, Medium=7219.1, High=3166.2, Very High=225.0
Back: Low=1467.8, Medium=2064.7, High=1095.4, Very High=95.5
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G3

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