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

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-12157
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUEDATE] 08/27/20
[TESTDATE] 08/19/20
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] CRUS_SM-AC-SS-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 III
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	12226
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	131
Total Luminaire Watts	93
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	5298
Maximum Candela Angle	0H 20V
Maximum Candela (<90 Degrees Vertical)	5298
Maximum Candela Angle (<90 Degrees Vertical)	0H 20V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	702 (5.7% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

Photometric Toolbox® Copyright 2002-2019 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

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

LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1997.0	N.A.	16.3
FM - Front-Medium (30-60)	4518.2	N.A.	37.0
FH - Front-High (60-80)	1813.1	N.A.	14.8
FVH - Front-Very High (80-90)	85.6	N.A.	0.7
BL - Back-Low (0-30)	1243.3	N.A.	10.2
BM - Back-Medium (30-60)	1727.3	N.A.	14.1
BH - Back-High (60-80)	781.5	N.A.	6.4
BVH - Back-Very High (80-90)	60.5	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	12226.5	N.A.	100.0
BUG Rating	B3-U0-G2		

Photometric Toolbox® Copyright 2002-2019 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

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

CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0	5	15	25	35	45	55	65	75	85
0.0	4499	4499	4499	4499	4499	4499	4499	4499	4499	4499
2.5	4612	4610	4607	4610	4612	4608	4595	4582	4552	4539
5.0	4642	4639	4629	4630	4632	4608	4602	4585	4558	4532
7.5	4688	4671	4660	4648	4648	4623	4593	4571	4526	4483
10.0	4817	4800	4770	4730	4695	4649	4592	4560	4491	4415
12.5	4973	4944	4916	4872	4800	4719	4626	4559	4474	4350
15.0	5079	5070	5021	4961	4884	4787	4685	4576	4488	4316
17.5	5258	5244	5173	5034	4916	4823	4710	4631	4503	4314
20.0	5298	5291	5233	5098	4936	4827	4717	4673	4506	4307
22.5	5116	5120	5078	5005	4922	4830	4733	4677	4499	4337
25.0	5017	5005	4985	4932	4889	4845	4747	4682	4509	4345
27.5	4959	4948	4926	4889	4861	4813	4736	4697	4518	4322
30.0	4919	4917	4881	4850	4815	4772	4707	4658	4493	4283
32.5	4878	4859	4839	4796	4753	4729	4667	4577	4451	4218
35.0	4830	4826	4792	4721	4667	4638	4611	4505	4380	4135
37.5	4758	4762	4716	4628	4574	4538	4492	4426	4297	4050
40.0	4673	4680	4602	4516	4468	4413	4363	4317	4215	3969
42.5	4552	4548	4466	4376	4345	4294	4242	4190	4127	3885
45.0	4387	4382	4314	4216	4187	4148	4097	4038	4016	3775
47.5	4163	4141	4104	4045	4026	3999	3949	3870	3872	3629
50.0	3872	3855	3860	3855	3864	3872	3808	3686	3668	3464
52.5	3566	3560	3608	3652	3695	3735	3668	3500	3416	3266
55.0	3278	3279	3329	3415	3532	3596	3516	3297	3167	3059
57.5	3003	2988	3080	3190	3355	3455	3339	3081	2924	2833
60.0	2723	2730	2843	2950	3183	3287	3119	2838	2677	2592
62.5	2509	2529	2625	2720	3002	3062	2859	2556	2403	2317
65.0	2360	2377	2476	2522	2800	2750	2543	2245	2117	2029
67.5	2184	2202	2325	2358	2513	2388	2186	1918	1814	1737
70.0	2012	2053	2179	2129	2190	2007	1808	1581	1505	1460
72.5	1636	1714	1922	1818	1826	1577	1418	1251	1219	1192
75.0	968	1045	1541	1402	1440	1167	1061	941	939	938
77.5	617	677	1111	996	1007	779	743	653	664	666
80.0	209	265	702	646	626	433	474	396	426	439
82.5	135	158	369	322	326	175	243	218	233	264
85.0	74	89	143	110	125	59	95	87	101	120
87.5	22	23	28	29	29	24	28	25	36	42
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles	Horizontal Angles									
	90	95	105	115	125	135	145	155	165	175
0.0	4499	4499	4499	4499	4499	4499	4499	4499	4499	4499
2.5	4531	4511	4470	4454	4417	4382	4345	4319	4311	4327
5.0	4501	4462	4358	4244	4135	4043	3998	3944	3914	3905
7.5	4463	4392	4228	4029	3920	3823	3761	3708	3664	3646
10.0	4384	4302	4087	3871	3730	3618	3540	3467	3399	3346
12.5	4288	4204	3968	3732	3554	3413	3287	3193	3113	3069
15.0	4229	4130	3859	3610	3396	3199	3040	2928	2846	2808
17.5	4200	4068	3800	3486	3212	2970	2780	2673	2590	2557
20.0	4177	4025	3700	3348	3035	2744	2531	2422	2355	2319
22.5	4171	3982	3621	3229	2840	2508	2286	2168	2071	2008
25.0	4132	3925	3557	3115	2641	2288	2043	1882	1775	1730
27.5	4094	3870	3500	2939	2438	2067	1791	1612	1541	1506

Photometric Toolbox® Copyright 2002-2019 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

CANDELA TABULATION - (Cont.)

30.0	4047	3818	3385	2750	2252	1850	1564	1399	1330	1287
32.5	3990	3749	3223	2577	2044	1635	1358	1208	1133	1095
35.0	3916	3687	3075	2416	1858	1440	1180	1043	971	945
37.5	3842	3593	2944	2265	1686	1270	1028	907	855	839
40.0	3800	3513	2841	2153	1545	1124	904	803	773	765
42.5	3741	3423	2756	2095	1429	1010	805	735	716	716
45.0	3651	3318	2724	2056	1347	920	736	683	675	678
47.5	3519	3231	2714	2012	1281	863	686	645	639	641
50.0	3353	3121	2693	1963	1247	828	655	609	601	602
52.5	3160	2993	2648	1921	1242	814	627	571	561	560
55.0	2974	2836	2559	1895	1249	806	596	528	520	517
57.5	2768	2666	2427	1880	1264	794	564	492	475	473
60.0	2541	2456	2298	1855	1268	779	533	453	434	427
62.5	2286	2220	2130	1795	1249	756	498	415	401	391
65.0	2008	1975	1929	1698	1209	728	462	384	370	361
67.5	1715	1699	1697	1550	1135	681	425	351	335	330
70.0	1440	1401	1454	1356	1031	625	381	315	299	298
72.5	1171	1154	1212	1127	894	552	333	270	260	264
75.0	912	892	964	912	736	458	274	224	223	228
77.5	638	622	698	680	562	360	216	178	183	189
80.0	401	347	464	443	386	263	167	134	142	146
82.5	223	156	264	260	231	170	121	100	105	106
85.0	106	74	120	128	114	81	70	69	71	73
87.5	37	36	46	50	51	42	44	46	48	50
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles	**Horizontal Angles**
	180
0.0	4499
2.5	4340
5.0	3938
7.5	3638
10.0	3350
12.5	3068
15.0	2811
17.5	2561
20.0	2323
22.5	2009
25.0	1726
27.5	1498
30.0	1275
32.5	1083
35.0	945
37.5	840
40.0	759
42.5	711
45.0	676
47.5	639
50.0	600
52.5	559
55.0	518
57.5	473
60.0	427
62.5	389
65.0	358

Photometric Toolbox® Copyright 2002-2019 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

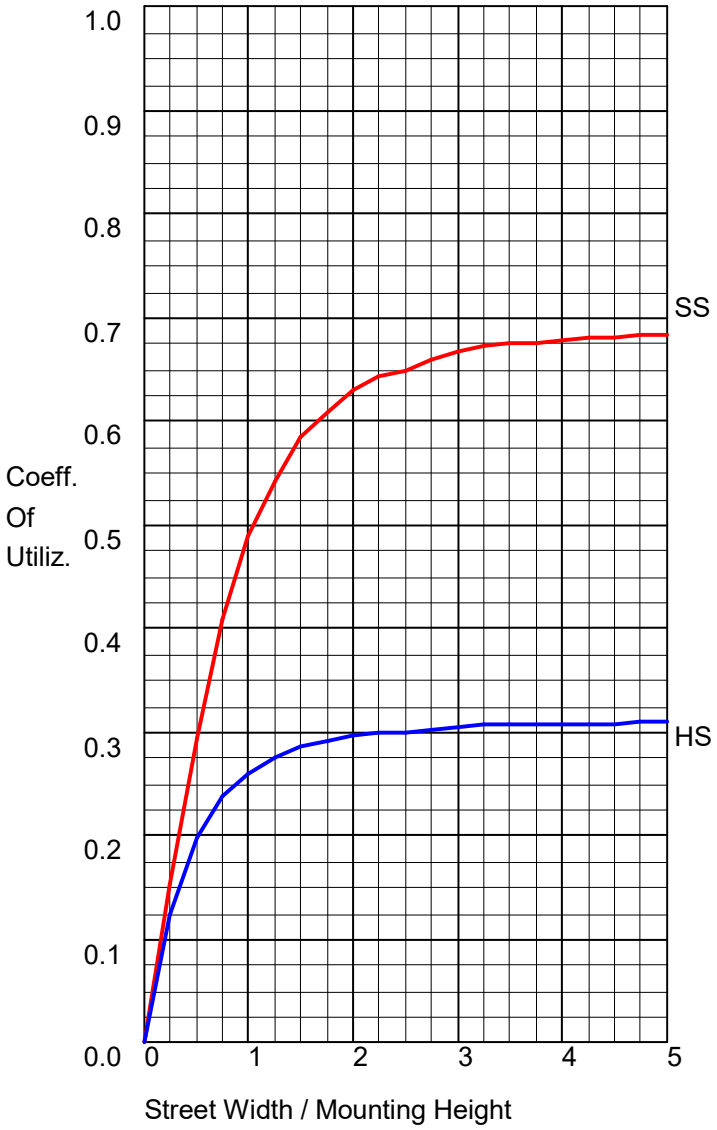
CANDELA TABULATION - (Cont.)

67.5	328
70.0	298
72.5	265
75.0	228
77.5	185
80.0	142
82.5	106
85.0	73
87.5	49
90.0	0

Photometric Toolbox® Copyright 2002-2019 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

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

COEFFICIENTS OF UTILIZATION



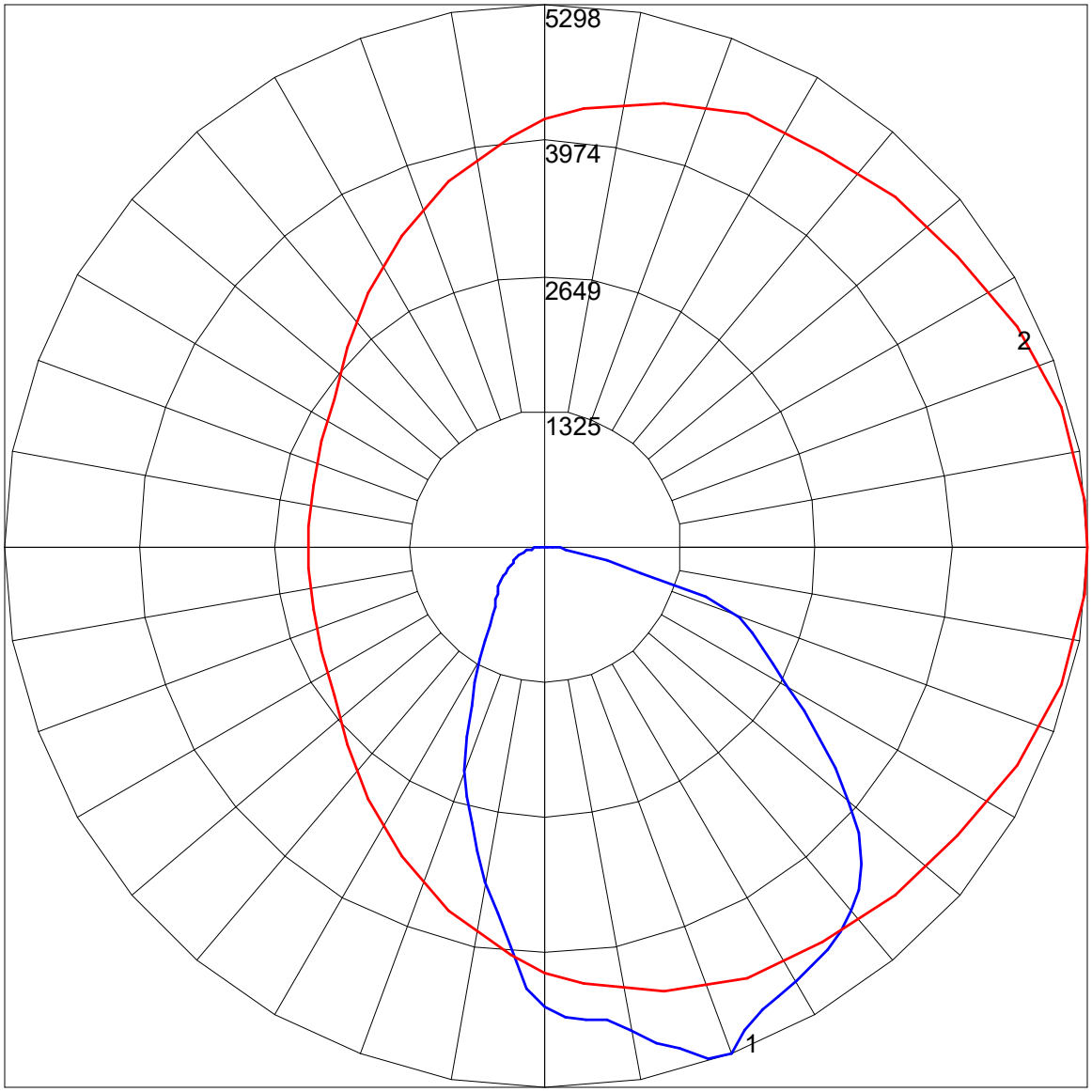
FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	8413.8	68.8
Downward House Side	3812.6	31.2
Downward Total	12226.4	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	12226.4	100.0

Photometric Toolbox® Copyright 2002-2019 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

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

POLAR GRAPH

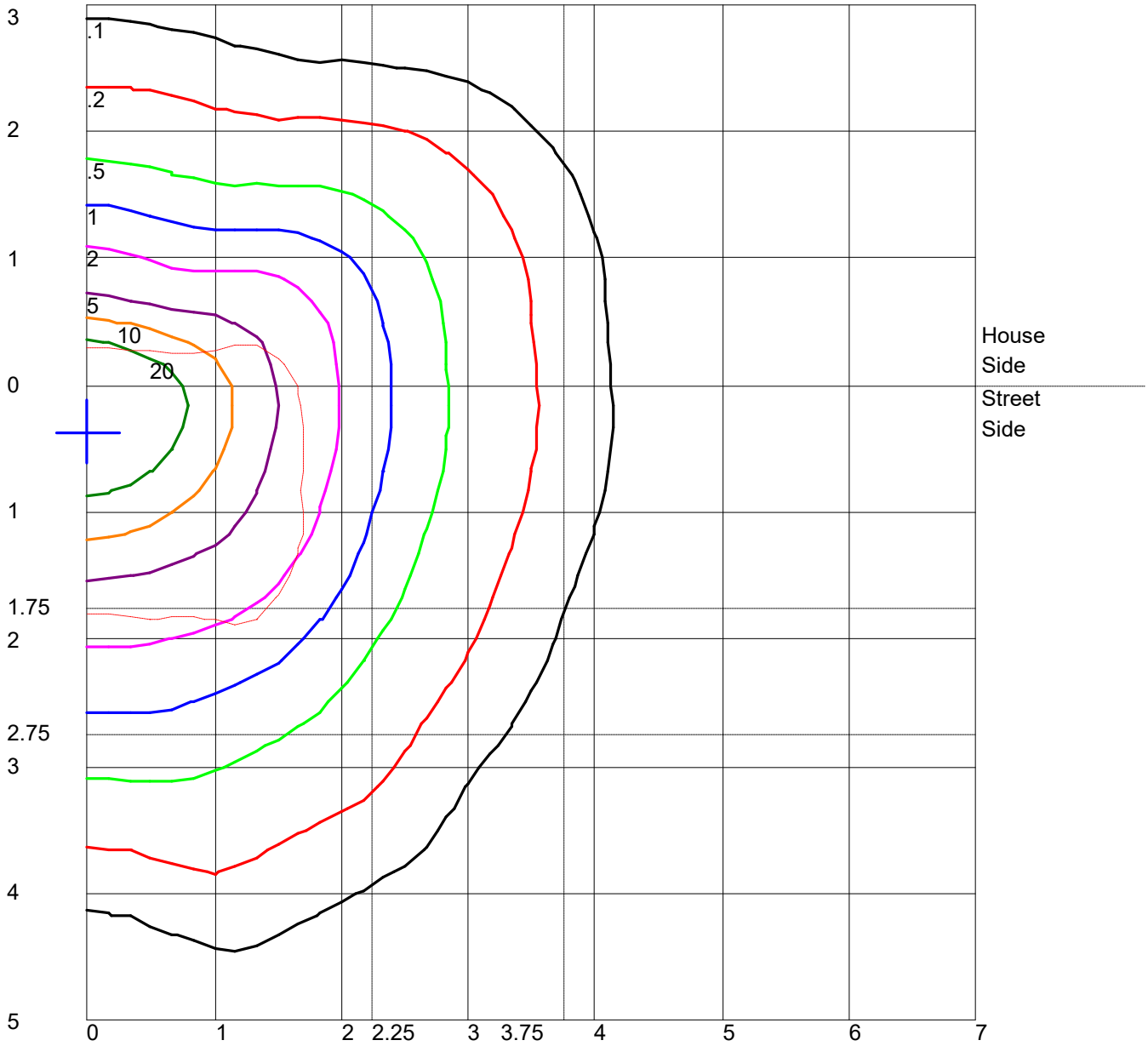


Maximum Candela = 5298 Located At Horizontal Angle = 0, Vertical Angle = 20
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (20) (Through Max. Cd.)

Photometric Toolbox® Copyright 2002-2019 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

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

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE

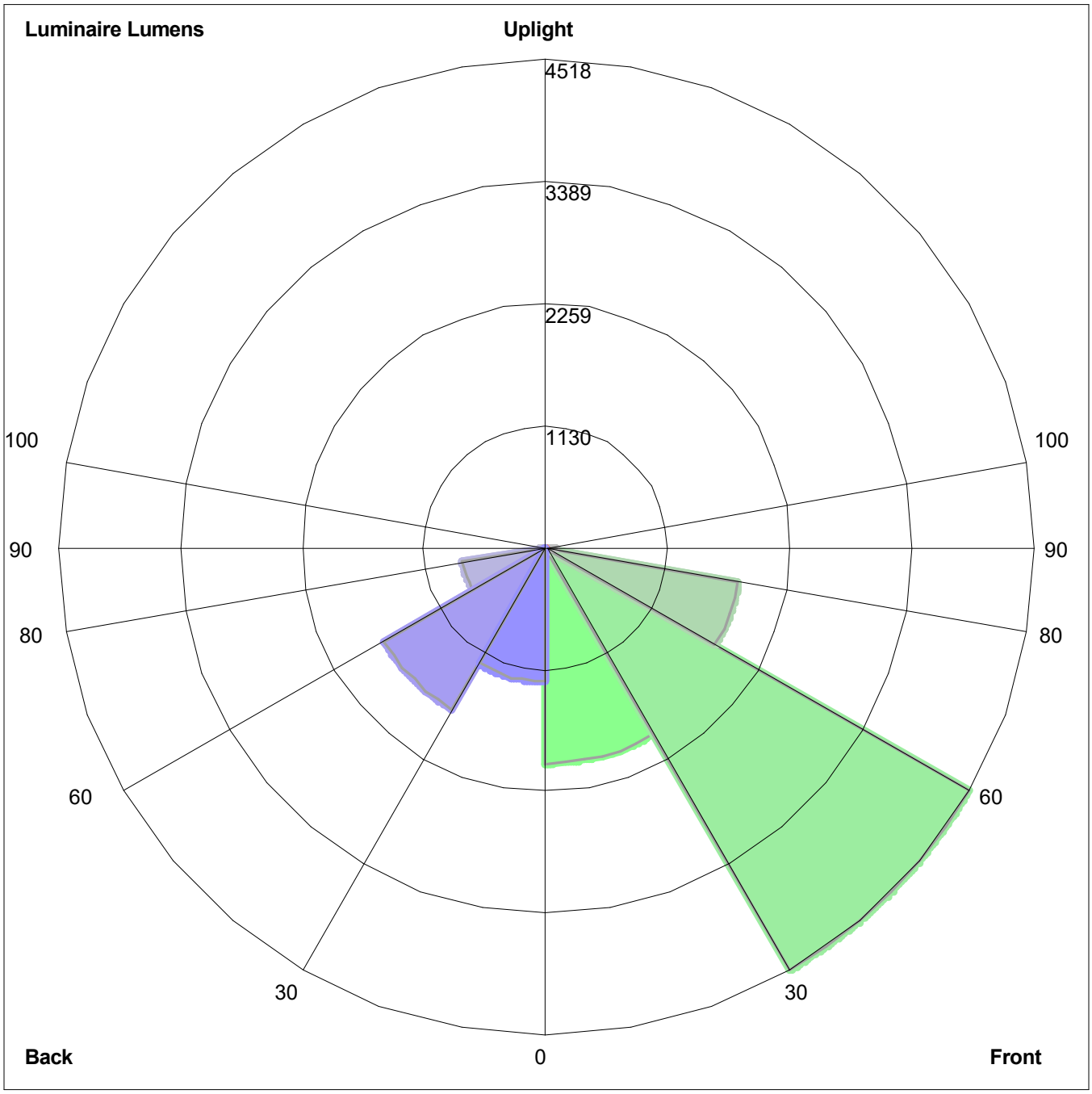


Distance In Units Of Mounting Height
Values Based On 10 Foot Mounting Height
1/2 Maximum Candela Trace Shown As Dashed Curve
(+) = Maximum Candela Point

Photometric Toolbox® Copyright 2002-2019 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

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

LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low= 1997.0, Medium=4518.2, High=1813.1, Very High=85.6
Back: Low=1243.3, Medium=1727.3, High=781.5, Very High=60.5
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G2

Photometric Toolbox® Copyright 2002-2019 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.