



IES ROAD REPORT

PHOTOMETRIC FILENAME : VG1-L110-750-TFL-XX-XXX-DIM-UNV_.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] ATAL009393-R2
[TESTLAB] ATAL-LABS
[ISSUEDATE] 2023-11-06
[MANUFAC] WILLIAMS OUTDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] VG1-L110-750-TFL-xx-xxx-DIM-UNV_
[LUMINAIRE] 13.5 x 16 INCH DIE CAST LED LUMINAIRE
[MORE] WITH TFL FLOOD OPTIC AND CLEAR GLASS LENS.
[LAMPCAT] X12-LUXEON M LEDS
[LAMP] (12) LUXEON M LEDS
[_SEARCH_SOURCETYPE] LED
[_SEARCH_APPLICATION] Outdoor, Architectural, Area, Canopy, Garage, Industrial, Parking, Site, Direct, Wet Location
[_SEARCH_MOUNTING] Pendant, Surface

CHARACTERISTICS

IES Classification	Type VS
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	12329
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	119
Total Luminaire Watts	104
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	5162.459
Maximum Candela Angle	45H 45V
Maximum Candela (<90 Degrees Vertical)	5162.459
Maximum Candela Angle (<90 Degrees Vertical)	45H 45V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	89.07 (0.7% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : VG1-L110-750-TFL-XX-XXX-DIM-UNV_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1517.3	N.A.	12.3
FM - Front-Medium (30-60)	4191.7	N.A.	34.0
FH - Front-High (60-80)	443.4	N.A.	3.6
FVH - Front-Very High (80-90)	12.2	N.A.	0.1
BL - Back-Low (0-30)	1517.3	N.A.	12.3
BM - Back-Medium (30-60)	4191.7	N.A.	34.0
BH - Back-High (60-80)	443.4	N.A.	3.6
BVH - Back-Very High (80-90)	12.2	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	12329.2	N.A.	100.0
BUG Rating	B3-U0-G1		

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CANDELA TABULATION

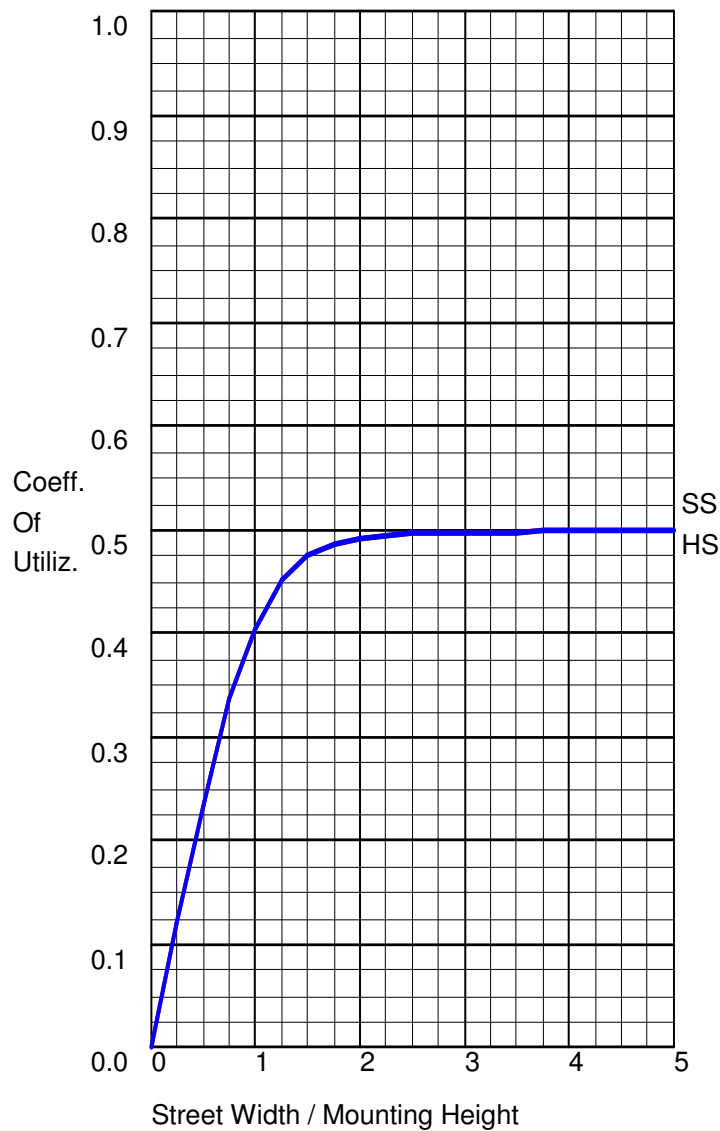
Vert. Angles	Horizontal Angles									
	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
0.0	3454.478	3454.478	3454.478	3454.478	3454.478	3454.478	3454.478	3454.478	3454.478	3454.478
2.5	3449.664	3450.867	3454.478	3454.478	3450.867	3455.682	3455.682	3454.478	3454.478	3453.275
5.0	3448.460	3446.053	3444.849	3446.053	3442.442	3447.256	3450.867	3450.867	3452.071	3448.460
7.5	3444.849	3440.034	3437.627	3437.627	3438.831	3443.645	3450.867	3453.275	3455.682	3450.867
10.0	3444.849	3437.627	3431.609	3436.423	3442.442	3449.664	3460.496	3465.311	3470.126	3465.311
12.5	3450.867	3446.053	3438.831	3446.053	3459.293	3467.718	3480.959	3488.180	3494.199	3491.791
15.0	3477.348	3473.737	3467.718	3477.348	3495.402	3505.032	3518.272	3529.105	3536.326	3533.919
17.5	3508.643	3507.439	3507.439	3520.679	3544.752	3559.196	3571.232	3585.676	3592.898	3592.898
20.0	3532.716	3535.123	3542.345	3562.807	3595.305	3620.582	3637.433	3655.488	3666.321	3667.524
22.5	3533.919	3539.937	3559.196	3594.102	3638.637	3677.154	3706.041	3727.707	3748.169	3750.576
25.0	3509.846	3520.679	3557.992	3614.564	3677.154	3733.725	3780.668	3809.555	3838.443	3842.054
27.5	3473.737	3495.402	3549.567	3627.804	3719.281	3796.315	3864.923	3910.662	3949.179	3955.197
30.0	3459.293	3489.384	3559.196	3654.284	3773.446	3878.163	3968.437	4040.656	4094.821	4108.061
32.5	3480.959	3515.864	3595.305	3703.634	3848.072	3985.288	4104.450	4203.149	4271.757	4294.627
35.0	3518.272	3554.381	3639.840	3767.427	3934.735	4104.450	4253.702	4382.493	4470.360	4500.451
37.5	3549.567	3584.473	3677.154	3827.610	4025.009	4220.000	4394.530	4553.412	4667.758	4705.072
40.0	3560.400	3597.713	3700.023	3872.145	4102.042	4323.514	4518.506	4695.442	4845.899	4912.100
42.5	3584.473	3625.397	3738.540	3923.902	4159.818	4381.289	4584.706	4794.142	4991.540	5080.611
45.0	3626.600	3673.543	3802.333	3987.696	4193.520	4365.642	4531.746	4785.716	5050.519	5162.459
47.5	3621.786	3672.339	3807.148	3976.863	4122.505	4229.629	4365.642	4647.296	4980.708	5143.201
50.0	3402.721	3460.496	3610.953	3768.631	3881.774	3952.790	4100.839	4422.214	4772.476	4943.394
52.5	2923.668	2986.258	3140.325	3325.688	3441.238	3555.585	3756.595	4081.580	4362.031	4465.545
55.0	2288.140	2357.952	2518.038	2715.437	2857.467	3027.182	3251.061	3548.363	3702.430	3721.689
57.5	1636.965	1697.148	1854.826	2079.909	2227.958	2406.098	2628.774	2850.245	2895.984	2898.391
60.0	994.216	1035.140	1162.727	1393.828	1564.746	1740.479	1918.620	2066.669	2076.298	2082.316
62.5	552.476	577.752	664.415	794.410	941.255	1084.490	1212.077	1298.739	1301.147	1309.572
65.0	358.688	367.114	406.834	470.628	541.643	625.898	689.692	739.042	745.060	770.337
67.5	256.378	262.396	282.858	317.764	355.077	398.408	436.925	465.813	473.035	483.868
70.0	193.788	197.399	210.639	232.305	255.174	279.247	302.116	320.171	326.189	332.208
72.5	149.253	151.660	161.289	175.733	188.973	205.824	219.064	231.101	235.916	240.730
75.0	111.940	115.550	121.569	131.198	139.624	151.660	160.086	168.511	172.122	175.733
77.5	80.645	83.052	87.867	95.088	101.107	109.532	114.347	120.365	123.976	128.791
80.0	50.553	52.961	57.775	62.590	67.404	72.219	74.626	80.645	85.459	89.070
82.5	24.073	26.480	31.295	36.110	39.720	40.924	42.128	44.535	49.350	55.368
85.0	8.426	9.629	12.037	15.647	16.851	16.851	15.647	15.647	18.055	21.666
87.5	2.407	2.407	2.407	2.407	2.407	2.407	2.407	2.407	2.407	3.611
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Angles	Horizontal Angles									
	<u>50</u>	<u>55</u>	<u>60</u>	<u>65</u>	<u>70</u>	<u>75</u>	<u>80</u>	<u>85</u>	<u>90</u>	
0.0	3454.478	3454.478	3454.478	3454.478	3454.478	3454.478	3454.478	3454.478	3454.478	
2.5	3456.886	3462.904	3458.089	3447.256	3442.442	3443.645	3449.664	3450.867	3450.867	
5.0	3450.867	3453.275	3448.460	3441.238	3440.034	3440.034	3444.849	3444.849	3444.849	
7.5	3452.071	3449.664	3443.645	3440.034	3440.034	3437.627	3440.034	3437.627	3437.627	
10.0	3462.904	3454.478	3447.256	3444.849	3444.849	3440.034	3436.423	3431.609	3431.609	
12.5	3484.570	3472.533	3464.107	3462.904	3460.496	3453.275	3442.442	3436.423	3434.016	
15.0	3521.883	3507.439	3501.421	3499.013	3495.402	3486.977	3468.922	3460.496	3455.682	
17.5	3577.251	3559.196	3554.381	3551.974	3545.956	3531.512	3502.624	3490.588	3484.570	
20.0	3650.673	3624.193	3615.767	3609.749	3597.713	3572.436	3532.716	3508.643	3501.421	
22.5	3726.503	3695.208	3678.357	3665.117	3643.451	3602.527	3548.363	3508.643	3495.402	
25.0	3814.370	3778.260	3749.373	3724.096	3684.376	3621.786	3548.363	3489.384	3468.922	
27.5	3926.309	3882.978	3838.443	3790.297	3725.300	3637.433	3542.345	3467.718	3437.627	

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30.0	4076.766	4020.194	3955.197	3878.163	3781.871	3667.524	3556.789	3471.329	3435.220
32.5	4265.739	4193.520	4103.246	3991.307	3858.905	3716.874	3590.491	3499.013	3460.496
35.0	4469.156	4381.289	4259.721	4112.875	3943.161	3772.242	3631.415	3537.530	3499.013
37.5	4664.147	4555.819	4402.955	4227.222	4027.416	3827.610	3668.728	3566.418	3529.105
40.0	4849.510	4705.072	4530.542	4327.125	4097.228	3869.738	3690.394	3580.862	3539.937
42.5	5002.373	4806.178	4594.336	4380.086	4148.985	3910.662	3713.263	3591.694	3544.752
45.0	5058.945	4794.142	4535.357	4346.384	4152.596	3923.902	3710.856	3566.418	3508.643
47.5	4984.319	4653.315	4353.605	4168.243	4031.027	3831.221	3625.397	3460.496	3396.703
50.0	4771.272	4416.195	4062.322	3854.090	3752.984	3580.862	3391.888	3207.730	3137.918
52.5	4370.457	4044.267	3692.801	3438.831	3314.855	3160.787	2997.091	2826.172	2768.397
55.0	3703.634	3508.643	3189.675	2918.854	2784.045	2658.865	2530.074	2385.636	2315.824
57.5	2897.188	2804.507	2567.387	2333.879	2218.329	2123.240	2031.763	1928.249	1884.917
60.0	2085.927	2025.745	1870.474	1689.926	1605.670	1538.266	1480.491	1405.864	1376.977
62.5	1332.442	1292.721	1173.560	1055.602	999.030	955.699	926.811	882.276	867.832
65.0	759.504	734.227	672.841	617.473	581.363	544.050	525.995	494.701	489.886
67.5	475.442	458.591	432.111	398.408	371.928	347.855	322.578	303.320	300.913
70.0	326.189	315.357	299.709	278.043	259.989	237.119	215.454	201.010	199.806
72.5	235.916	228.694	217.861	202.213	186.566	167.307	150.456	139.624	138.420
75.0	173.326	168.511	161.289	146.845	133.605	117.958	104.718	96.292	95.088
77.5	126.383	122.772	117.958	105.921	93.885	81.848	69.812	63.794	63.794
80.0	87.867	85.459	81.848	73.423	62.590	51.757	42.128	38.517	37.313
82.5	55.368	52.961	51.757	43.331	36.110	27.684	21.666	18.055	18.055
85.0	21.666	20.462	21.666	19.258	15.647	10.833	9.629	7.222	7.222
87.5	3.611	2.407	2.407	2.407	2.407	2.407	2.407	2.407	2.407
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

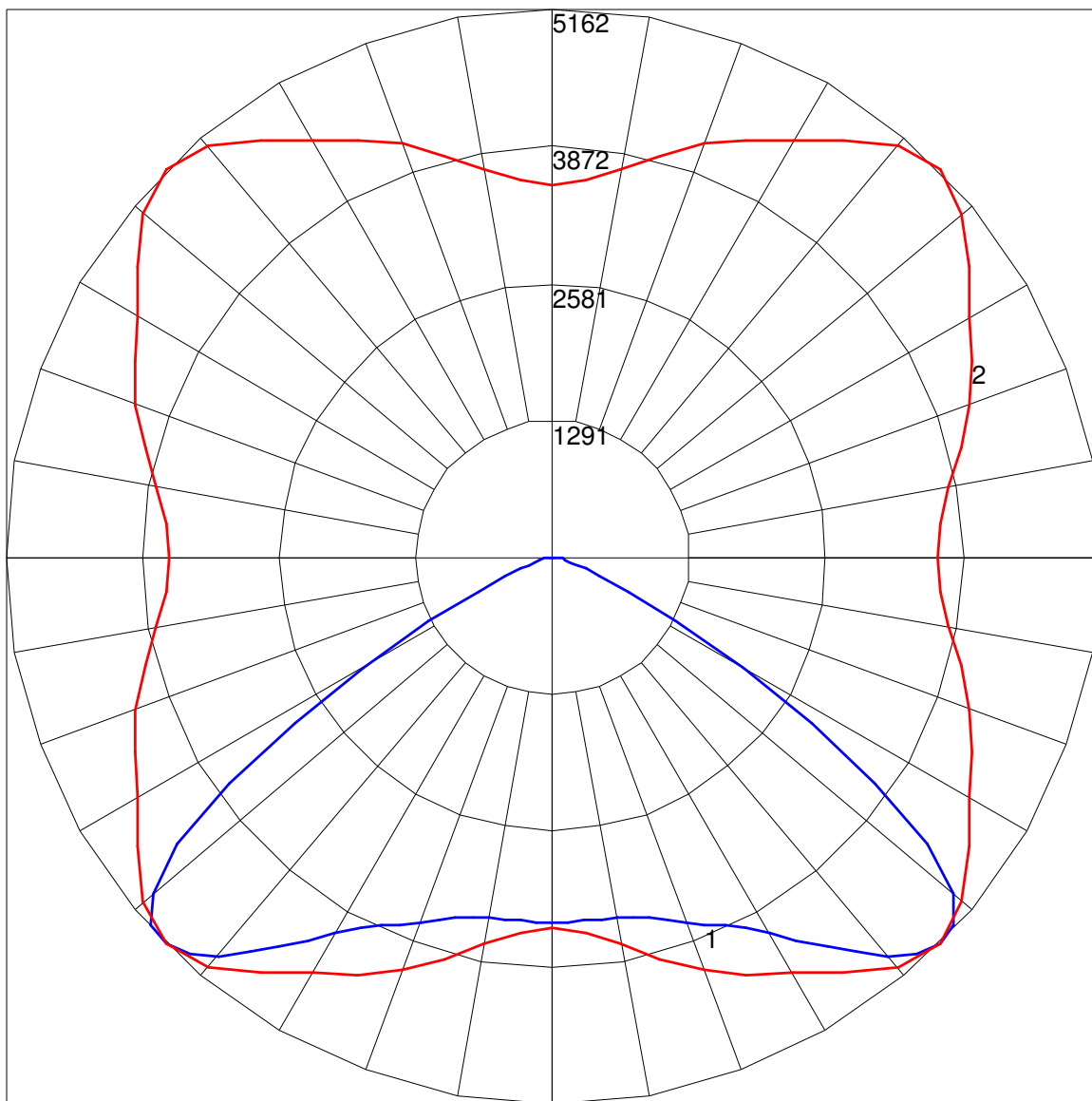
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

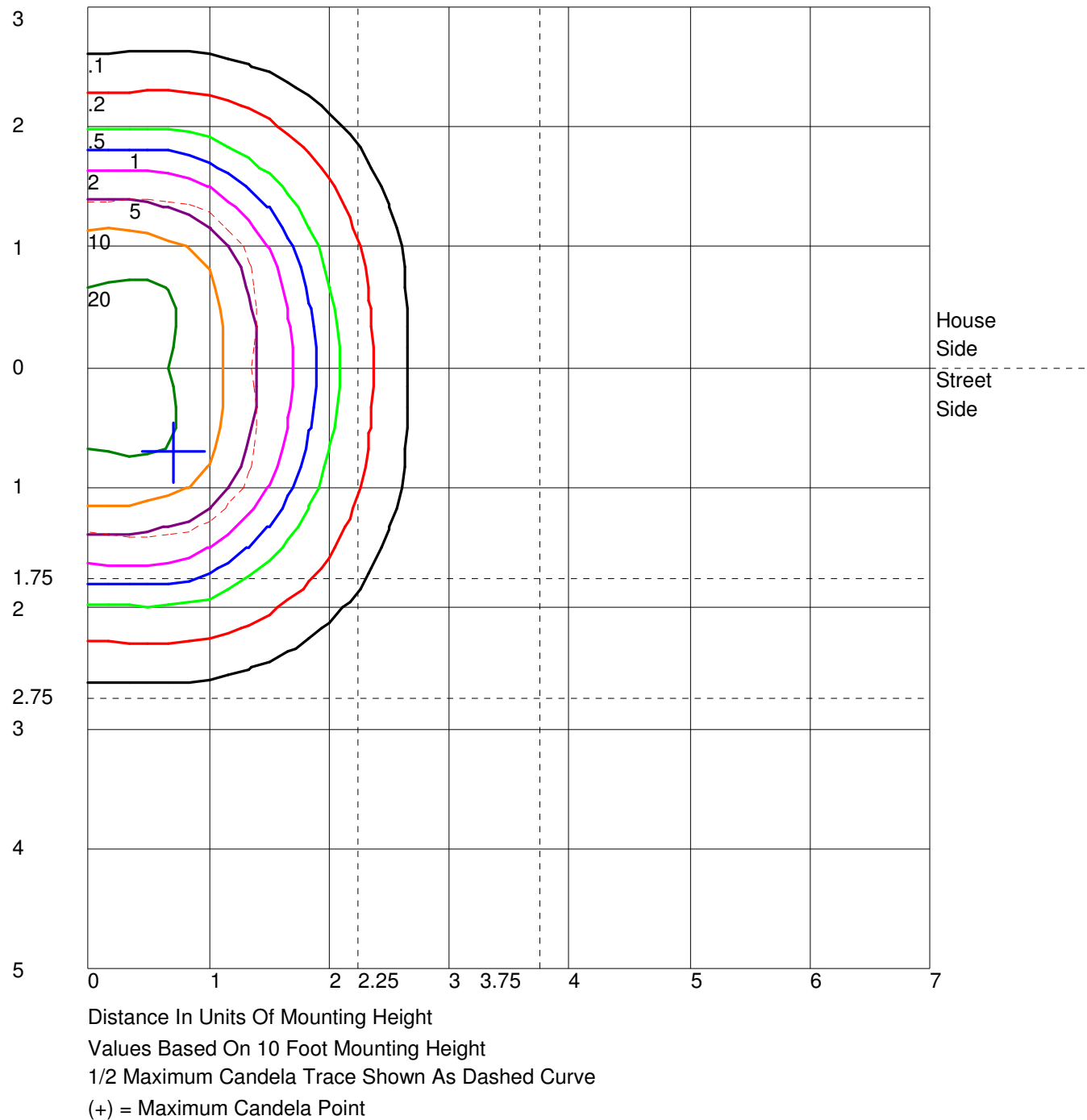
	Lumens	Percent Of Luminaire
Downward Street Side	6164.6	50.0
Downward House Side	6164.6	50.0
Downward Total	12329.2	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	12329.2	100.0

POLAR GRAPH

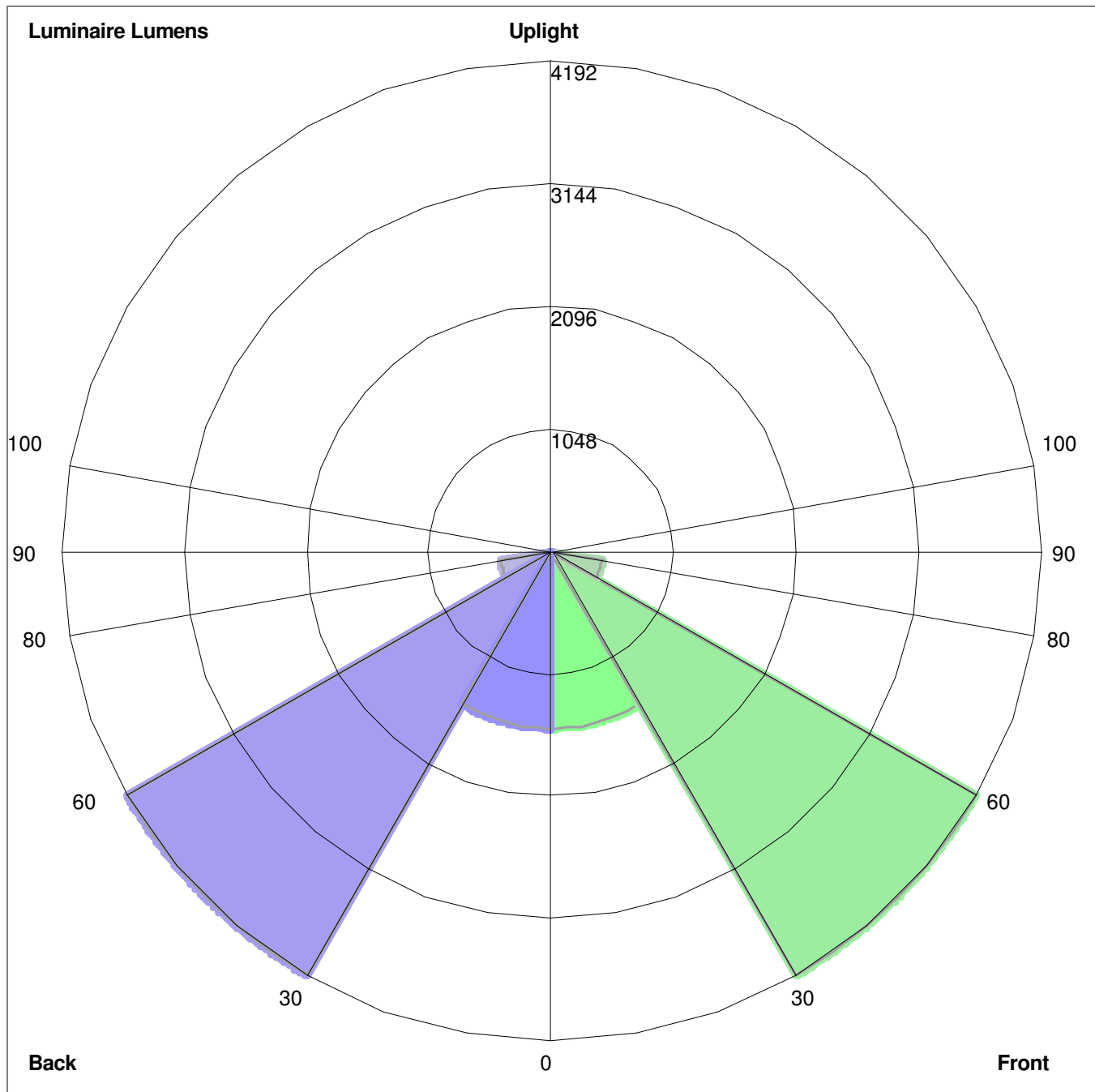


Maximum Candela = 5162.459 Located At Horizontal Angle = 45, Vertical Angle = 45
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (45) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1517.3, Medium=4191.7, High=443.4, Very High=12.2
Back: Low=1517.3, Medium=4191.7, High=443.4, Very High=12.2
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G1