



## IES ROAD REPORT

PHOTOMETRIC FILENAME : TEL22-SCL-LED-41L-45.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] 3099

[TESTLAB] TUV SUD America

[TESTDATE] 4/5/2017 5:13:23 PM

[MANUFAC] LSI INDUSTRIES, INC.

[ISSUEDATE] 11/15/2019

[LUMCAT] TEL22-SCL-LED-41L-45

[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	N.A.
Longitudinal Classification	N.A.
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	39611
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	111
Total Luminaire Watts	356.13
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	21362
Maximum Candela Angle	140H 60V
Maximum Candela (<90 Degrees Vertical)	21362
Maximum Candela Angle (<90 Degrees Vertical)	140H 60V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	2510 (6.3% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	2747.6	N.A.	6.9
FM - Front-Medium (30-60)	10971.0	N.A.	27.7
FH - Front-High (60-80)	5941.1	N.A.	15.0
FVH - Front-Very High (80-90)	145.9	N.A.	0.4
BL - Back-Low (0-30)	2747.6	N.A.	6.9
BM - Back-Medium (30-60)	10971.0	N.A.	27.7
BH - Back-High (60-80)	5941.1	N.A.	15.0
BVH - Back-Very High (80-90)	145.9	N.A.	0.4
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	39611.2	N.A.	100.0
BUG Rating	B5-U0-G5		

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**CANDELA TABULATION**

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<u>0</u>	<u>10</u>	<u>20</u>	<u>30</u>	<u>40</u>	<u>50</u>	<u>60</u>	<u>70</u>	<u>80</u>	<u>90</u>
<b>0</b>	5439	5439	5439	5439	5439	5439	5439	5439	5439	5439
<b>5</b>	5563	5774	5965	6141	6296	6422	6510	6576	6621	6641
<b>10</b>	5846	6253	6629	6934	7219	7466	7673	7838	7934	7963
<b>15</b>	6150	6807	7341	7849	8296	8629	8873	9048	9164	9219
<b>20</b>	6337	7178	7898	8645	9236	9639	9898	10056	10187	10242
<b>25</b>	6512	7451	8422	9273	9930	10415	10737	10908	11007	11048
<b>30</b>	6914	7979	9097	9904	10605	11014	11406	11653	11721	11767
<b>35</b>	8197	9512	10746	11456	11637	11786	11964	12356	12560	12657
<b>40</b>	9670	11402	12842	13591	13402	12859	12979	13195	13505	13603
<b>45</b>	10261	12629	14501	15968	15917	14707	14045	14392	14709	14777
<b>50</b>	9502	12403	15127	17570	18327	17058	15663	16012	16430	16398
<b>55</b>	8422	11909	15796	19197	20169	19218	17603	17542	18575	18444
<b>60</b>	7108	11262	16043	20651	21362	20916	19282	18530	18958	18410
<b>65</b>	5322	9581	14482	19436	20706	20465	17186	14787	14096	13101
<b>70</b>	3414	6916	10770	13971	15377	13373	8907	6905	5032	4258
<b>75</b>	1534	3829	6532	7607	7760	6034	4118	3102	1643	1330
<b>80</b>	479	1228	2330	2510	2210	1721	1317	932	433	330
<b>85</b>	66	146	175	173	136	87	63	49	44	43
<b>90</b>	0	0	0	0	0	0	0	0	0	0
<b>95</b>	0	0	0	0	0	0	0	0	0	0
<b>100</b>	0	0	0	0	0	0	0	0	0	0
<b>105</b>	0	0	0	0	0	0	0	0	0	0
<b>110</b>	0	0	0	0	0	0	0	0	0	0
<b>115</b>	0	0	0	0	0	0	0	0	0	0
<b>120</b>	0	0	0	0	0	0	0	0	0	0
<b>125</b>	0	0	0	0	0	0	0	0	0	0
<b>130</b>	0	0	0	0	0	0	0	0	0	0
<b>135</b>	0	0	0	0	0	0	0	0	0	0
<b>140</b>	0	0	0	0	0	0	0	0	0	0
<b>145</b>	0	0	0	0	0	0	0	0	0	0
<b>150</b>	0	0	0	0	0	0	0	0	0	0
<b>155</b>	0	0	0	0	0	0	0	0	0	0
<b>160</b>	0	0	0	0	0	0	0	0	0	0
<b>165</b>	0	0	0	0	0	0	0	0	0	0
<b>170</b>	0	0	0	0	0	0	0	0	0	0
<b>175</b>	0	0	0	0	0	0	0	0	0	0
<b>180</b>	0	0	0	0	0	0	0	0	0	0

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<u>100</u>	<u>110</u>	<u>120</u>	<u>130</u>	<u>140</u>	<u>150</u>	<u>160</u>	<u>170</u>	<u>180</u>	<u>190</u>
<b>0</b>	5439	5439	5439	5439	5439	5439	5439	5439	5439	5439
<b>5</b>	6621	6576	6510	6422	6296	6141	5965	5774	5563	5396
<b>10</b>	7934	7838	7673	7466	7219	6934	6629	6253	5846	5469
<b>15</b>	9164	9048	8873	8629	8296	7849	7341	6807	6150	5562
<b>20</b>	10187	10056	9898	9639	9236	8645	7898	7178	6337	5623
<b>25</b>	11007	10908	10737	10415	9930	9273	8422	7451	6512	5665
<b>30</b>	11721	11653	11406	11014	10605	9904	9097	7979	6914	5833
<b>35</b>	12560	12356	11964	11786	11637	11456	10746	9512	8197	6512
<b>40</b>	13505	13195	12979	12859	13402	13591	12842	11402	9670	7233
<b>45</b>	14709	14392	14045	14707	15917	15968	14501	12629	10261	7242
<b>50</b>	16430	16012	15663	17058	18327	17570	15127	12403	9502	6485
<b>55</b>	18575	17542	17603	19218	20169	19197	15796	11909	8422	5546

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**CANDELA TABULATION - (Cont.)**

<b>60</b>	18958	18530	19282	20916	21362	20651	16043	11262	7108	4577
<b>65</b>	14096	14787	17186	20465	20706	19436	14482	9581	5322	3387
<b>70</b>	5032	6905	8907	13373	15377	13971	10770	6916	3414	1940
<b>75</b>	1643	3102	4118	6034	7760	7607	6532	3829	1534	987
<b>80</b>	433	932	1317	1721	2210	2510	2330	1228	479	370
<b>85</b>	44	49	63	87	136	173	175	146	66	59
<b>90</b>	0	0	0	0	0	0	0	0	0	0
<b>95</b>	0	0	0	0	0	0	0	0	0	0
<b>100</b>	0	0	0	0	0	0	0	0	0	0
<b>105</b>	0	0	0	0	0	0	0	0	0	0
<b>110</b>	0	0	0	0	0	0	0	0	0	0
<b>115</b>	0	0	0	0	0	0	0	0	0	0
<b>120</b>	0	0	0	0	0	0	0	0	0	0
<b>125</b>	0	0	0	0	0	0	0	0	0	0
<b>130</b>	0	0	0	0	0	0	0	0	0	0
<b>135</b>	0	0	0	0	0	0	0	0	0	0
<b>140</b>	0	0	0	0	0	0	0	0	0	0
<b>145</b>	0	0	0	0	0	0	0	0	0	0
<b>150</b>	0	0	0	0	0	0	0	0	0	0
<b>155</b>	0	0	0	0	0	0	0	0	0	0
<b>160</b>	0	0	0	0	0	0	0	0	0	0
<b>165</b>	0	0	0	0	0	0	0	0	0	0
<b>170</b>	0	0	0	0	0	0	0	0	0	0
<b>175</b>	0	0	0	0	0	0	0	0	0	0
<b>180</b>	0	0	0	0	0	0	0	0	0	0

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<b><u>200</u></b>	<b><u>210</u></b>	<b><u>220</u></b>	<b><u>230</u></b>	<b><u>240</u></b>	<b><u>250</u></b>	<b><u>260</u></b>	<b><u>270</u></b>	<b><u>280</u></b>	<b><u>290</u></b>
<b>0</b>	5439	5439	5439	5439	5439	5439	5439	5439	5439	5439
<b>5</b>	5176	4962	4770	4608	4477	4375	4313	4297	4313	4375
<b>10</b>	5030	4628	4280	3991	3717	3539	3432	3397	3432	3539
<b>15</b>	4989	4492	3964	3642	3446	3305	3230	3199	3230	3305
<b>20</b>	4970	4299	3969	3727	3500	3296	3173	3135	3173	3296
<b>25</b>	4870	4308	4027	3770	3529	3294	3128	3070	3128	3294
<b>30</b>	4723	4291	4039	3798	3549	3301	3088	3012	3088	3301
<b>35</b>	4908	4323	4177	3959	3692	3383	3112	3004	3112	3383
<b>40</b>	5132	4635	4727	4386	3858	3434	3179	3083	3179	3434
<b>45</b>	5062	4995	5196	4682	3913	3431	3214	3137	3214	3431
<b>50</b>	4747	4832	4812	4313	3821	3411	3240	3169	3240	3411
<b>55</b>	4422	4487	4248	3988	3693	3364	3307	3245	3307	3364
<b>60</b>	3833	3788	3587	3489	3400	3212	3123	3055	3123	3212
<b>65</b>	2909	2808	2790	2830	2710	2649	2566	2457	2566	2649
<b>70</b>	1835	1814	1804	1786	1770	1869	1772	1666	1772	1869
<b>75</b>	1025	1038	984	951	993	1022	978	873	978	1022
<b>80</b>	402	405	378	367	383	397	340	319	340	397
<b>85</b>	59	60	56	50	47	43	43	41	43	43
<b>90</b>	0	0	0	0	0	0	0	0	0	0
<b>95</b>	0	0	0	0	0	0	0	0	0	0
<b>100</b>	0	0	0	0	0	0	0	0	0	0
<b>105</b>	0	0	0	0	0	0	0	0	0	0
<b>110</b>	0	0	0	0	0	0	0	0	0	0
<b>115</b>	0	0	0	0	0	0	0	0	0	0
<b>120</b>	0	0	0	0	0	0	0	0	0	0
<b>125</b>	0	0	0	0	0	0	0	0	0	0
<b>130</b>	0	0	0	0	0	0	0	0	0	0

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : TEL22-SCL-LED-41L-45.IES**

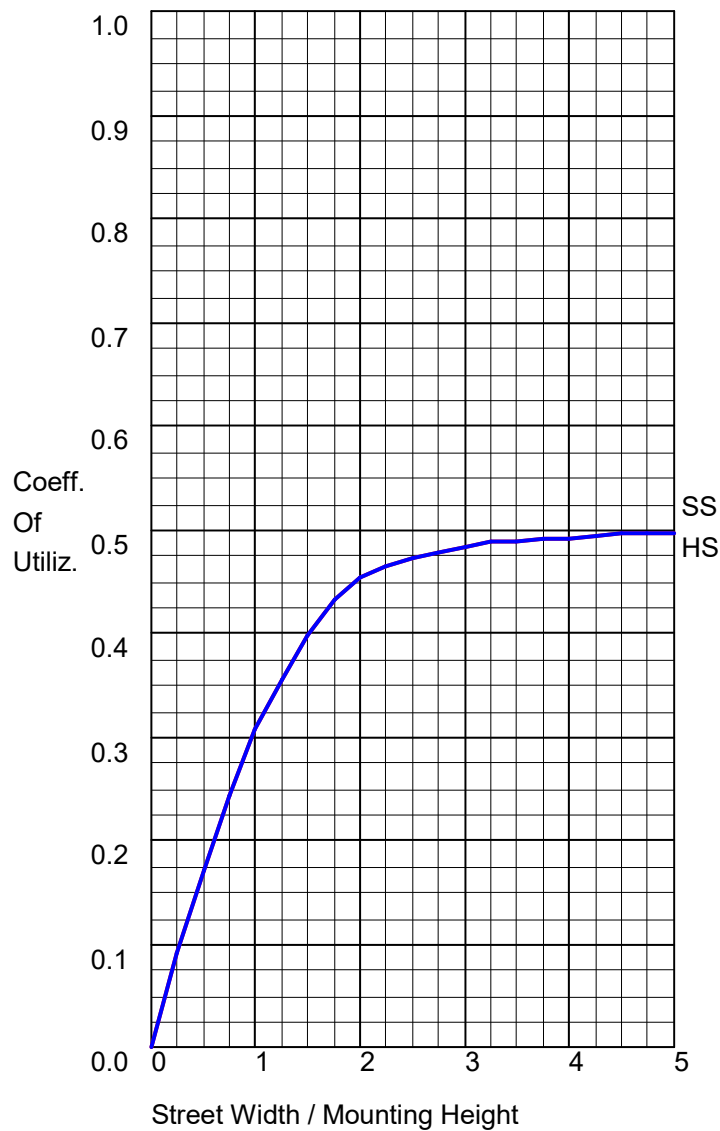
**CANDELA TABULATION - (Cont.)**

135	0	0	0	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0	0	0	0
145	0	0	0	0	0	0	0	0	0	0
150	0	0	0	0	0	0	0	0	0	0
155	0	0	0	0	0	0	0	0	0	0
160	0	0	0	0	0	0	0	0	0	0
165	0	0	0	0	0	0	0	0	0	0
170	0	0	0	0	0	0	0	0	0	0
175	0	0	0	0	0	0	0	0	0	0
180	0	0	0	0	0	0	0	0	0	0

**Vert. Horizontal Angles**  
**Angles**

	<u>300</u>	<u>310</u>	<u>320</u>	<u>330</u>	<u>340</u>	<u>350</u>	<u>360</u>
0	5439	5439	5439	5439	5439	5439	5439
5	4477	4608	4770	4962	5176	5396	5563
10	3717	3991	4280	4628	5030	5469	5846
15	3446	3642	3964	4492	4989	5562	6150
20	3500	3727	3969	4299	4970	5623	6337
25	3529	3770	4027	4308	4870	5665	6512
30	3549	3798	4039	4291	4723	5833	6914
35	3692	3959	4177	4323	4908	6512	8197
40	3858	4386	4727	4635	5132	7233	9670
45	3913	4682	5196	4995	5062	7242	10261
50	3821	4313	4812	4832	4747	6485	9502
55	3693	3988	4248	4487	4422	5546	8422
60	3400	3489	3587	3788	3833	4577	7108
65	2710	2830	2790	2808	2909	3387	5322
70	1770	1786	1804	1814	1835	1940	3414
75	993	951	984	1038	1025	987	1534
80	383	367	378	405	402	370	479
85	47	50	56	60	59	59	66
90	0	0	0	0	0	0	0
95	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0
105	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0
115	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0
125	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0
135	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0
145	0	0	0	0	0	0	0
150	0	0	0	0	0	0	0
155	0	0	0	0	0	0	0
160	0	0	0	0	0	0	0
165	0	0	0	0	0	0	0
170	0	0	0	0	0	0	0
175	0	0	0	0	0	0	0
180	0	0	0	0	0	0	0

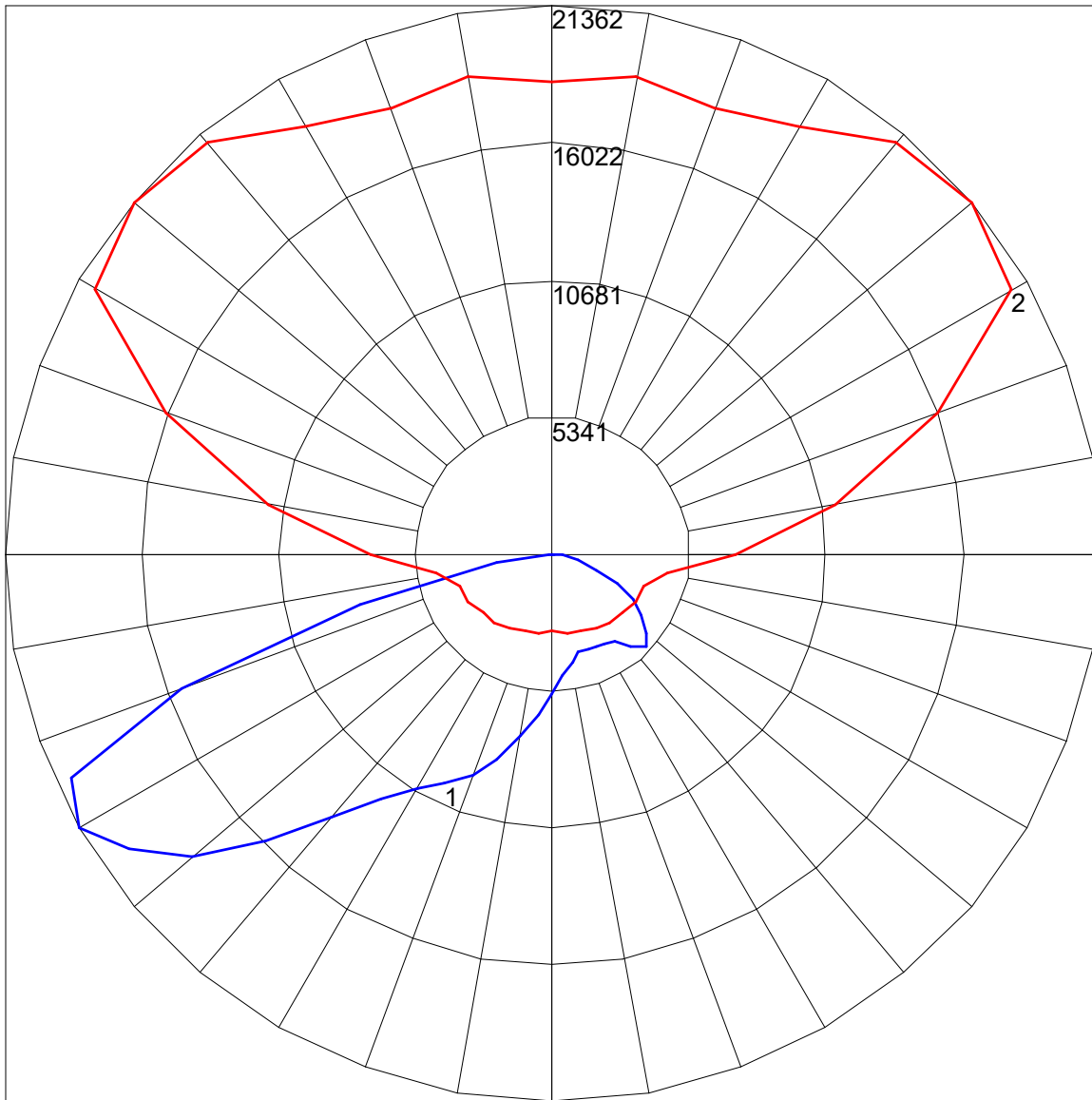
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

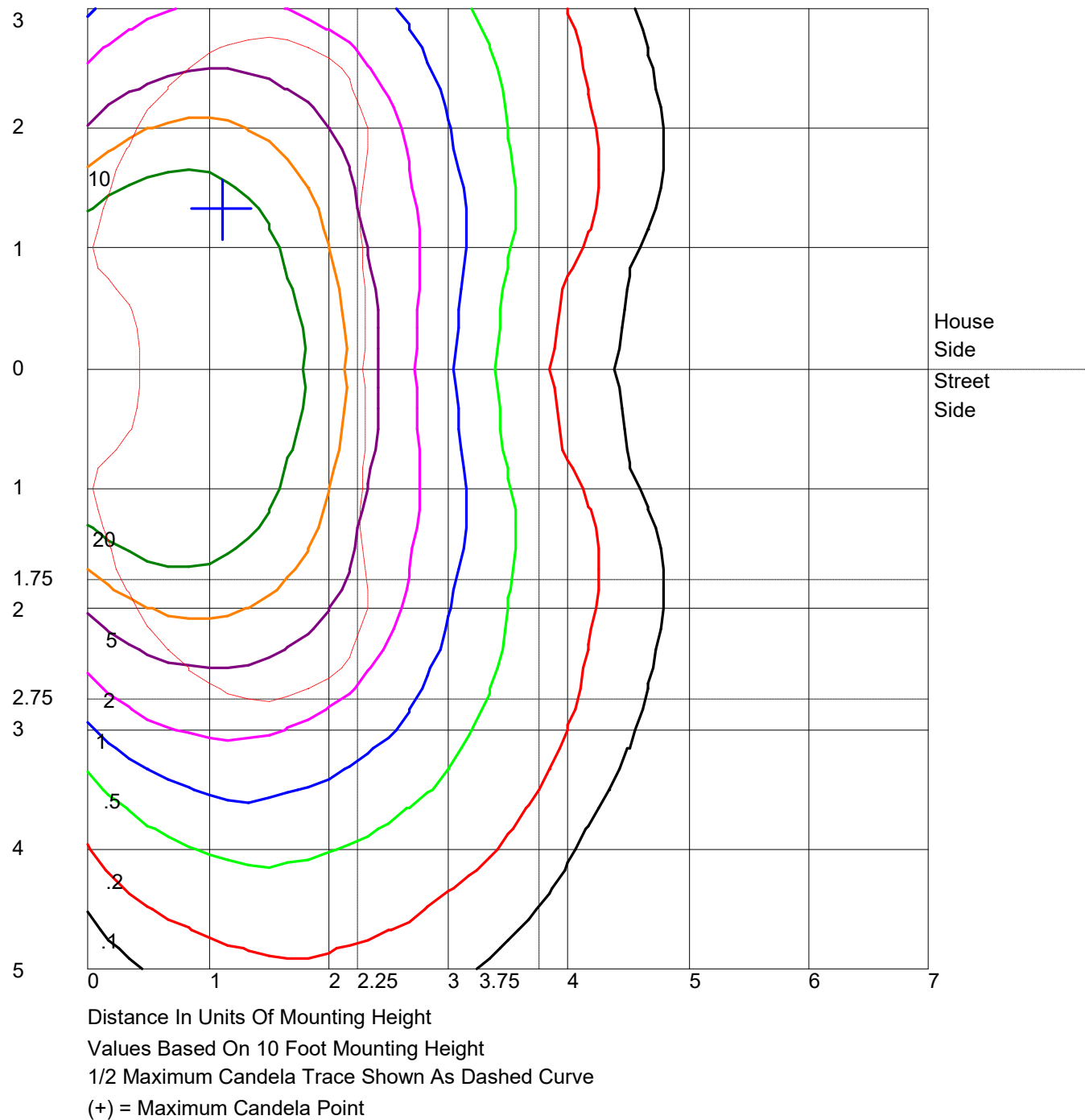
	Lumens	Percent Of Luminaire
Downward Street Side	19805.7	50.0
Downward House Side	19805.7	50.0
Downward Total	39611.4	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	39611.4	100.0

POLAR GRAPH



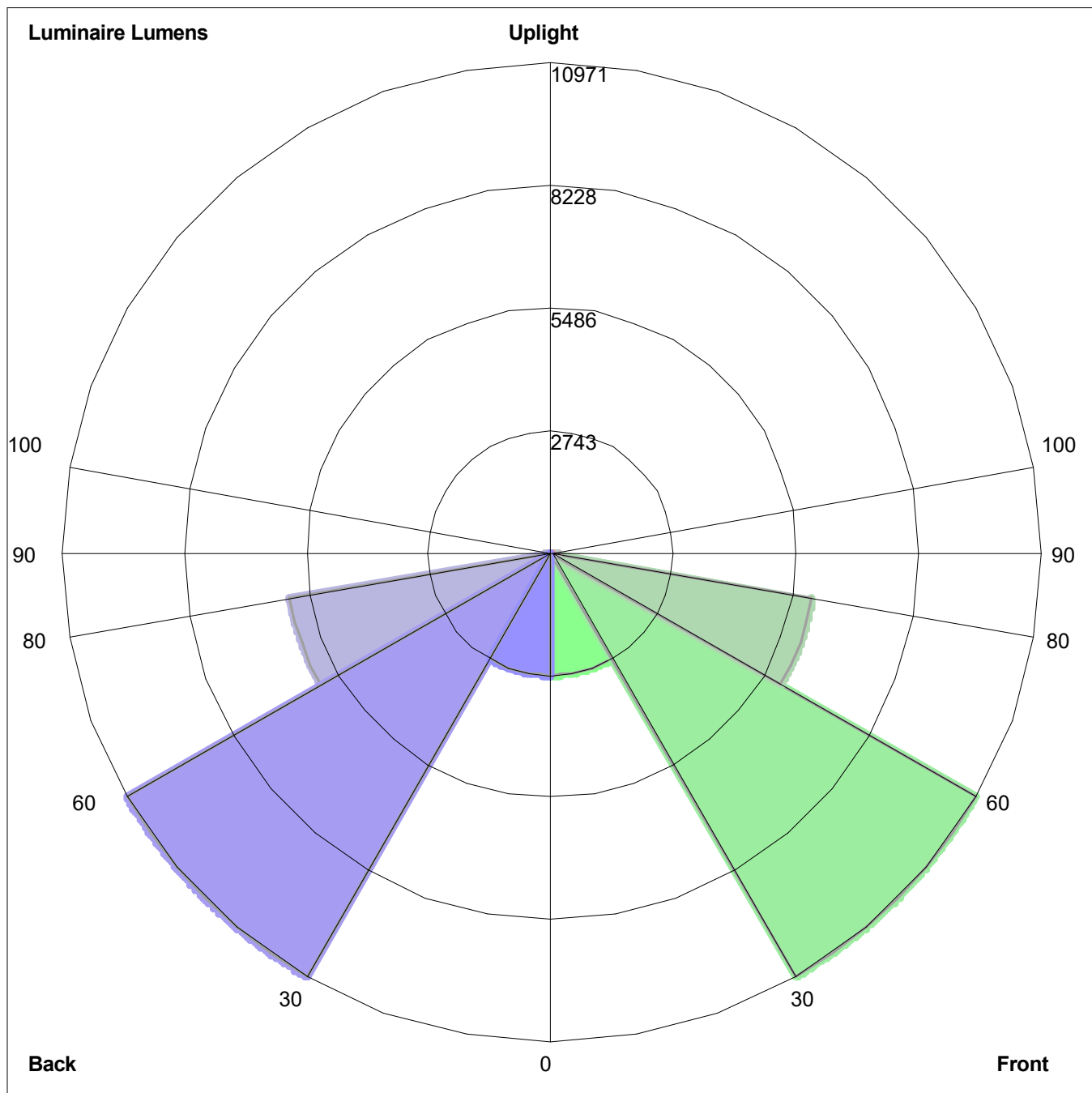
Maximum Candela = 21362 Located At Horizontal Angle = 140, Vertical Angle = 60  
# 1 - Vertical Plane Through Horizontal Angles (140 - 320) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (60) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=2747.6, Medium= 10971.0, High=5941.1, Very High=145.9  
Back: Low=2747.6, Medium= 10971.0, High=5941.1, Very High=145.9  
Uplight: Low=0.0, High=0.0

BUG Rating : B5-U0-G5