



**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : CBR7-LED-10L-PC-A-50.IES**

**DESCRIPTIVE INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]LED-9528  
[TESTLAB]LSI INDUSTRIES, INC  
[ISSUE DATE]01/04/18  
[TEST DATE]01/04/18  
[MANUFACTURER]LSI INDUSTRIES, INC  
[LUMCAT]CBR7-LED-10L-PC-A-50  
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.  
[OTHER]TEST PROCEDURE: IESNA LM-79-08

**CHARACTERISTICS**

IES Classification	Type VS
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1232
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	57
Total Luminaire Watts	21.7
Ballast Factor	1.00
Upward Waste Light Ratio	0.07
Maximum Candela	491
Maximum Candela Angle	5H 50V
Maximum Candela (<90 Degrees Vertical)	491
Maximum Candela Angle (<90 Degrees Vertical)	5H 50V
Maximum Candela At 90 Degrees Vertical	35 (2.8% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	43 (3.5% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	51.6	N.A.	4.2
FM - Front-Medium (30-60)	420.1	N.A.	34.1
FH - Front-High (60-80)	78.6	N.A.	6.4
FVH - Front-Very High (80-90)	19.6	N.A.	1.6
BL - Back-Low (0-30)	51.6	N.A.	4.2
BM - Back-Medium (30-60)	420.1	N.A.	34.1
BH - Back-High (60-80)	78.6	N.A.	6.4
BVH - Back-Very High (80-90)	19.6	N.A.	1.6
UL - Uplight-Low (90-100)	27.5	N.A.	2.2
UH - Uplight-High (100-180)	64.6	N.A.	5.2
Total	1231.9	N.A.	100.0
BUG Rating	B1-U3-G1		

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**CANDELA TABULATION**

Vert. Angles	Horizontal Angles									
	<u>0</u>	<u>5</u>	<u>15</u>	<u>25</u>	<u>35</u>	<u>45</u>	<u>55</u>	<u>65</u>	<u>75</u>	<u>85</u>
0.0	1	1	1	1	1	1	1	1	1	1
2.5	1	1	2	2	2	2	2	1	1	1
5.0	2	2	2	2	2	2	2	2	2	2
7.5	3	3	2	3	3	3	3	3	3	3
10.0	4	4	4	4	4	4	4	4	4	5
12.5	5	5	5	5	5	6	6	7	7	6
15.0	11	11	11	12	10	13	11	13	13	13
17.5	24	26	22	33	37	43	58	59	55	42
20.0	70	67	69	83	72	77	70	76	76	81
22.5	136	131	131	145	128	154	122	164	150	169
25.0	210	197	188	182	185	201	203	206	224	210
27.5	259	247	238	253	245	267	252	275	272	284
30.0	349	324	309	295	294	291	286	299	330	301
32.5	410	387	354	338	326	340	323	333	343	336
35.0	417	402	359	352	345	361	344	342	374	362
37.5	428	425	382	381	361	366	363	362	377	383
40.0	443	445	411	398	371	376	381	373	391	391
42.5	450	461	417	396	378	382	386	379	396	399
45.0	462	479	422	404	378	386	390	384	393	404
47.5	472	482	434	418	384	388	398	384	394	399
50.0	479	491	437	420	385	381	387	371	374	381
52.5	466	478	424	388	341	347	353	344	364	383
55.0	384	404	347	344	304	329	353	328	356	350
57.5	342	355	327	296	275	277	312	278	300	301
60.0	319	323	284	243	246	238	248	231	254	251
62.5	232	220	215	198	167	162	176	145	156	162
65.0	181	171	158	137	104	119	103	86	86	80
67.5	80	81	84	69	63	57	57	50	41	34
70.0	28	28	28	28	27	26	26	27	27	28
72.5	32	33	32	33	30	29	30	30	30	30
75.0	35	35	34	36	34	32	33	34	34	33
77.5	36	36	38	40	39	36	36	36	36	36
80.0	39	39	38	40	38	37	37	37	38	39
82.5	37	39	38	41	38	35	36	37	39	42
85.0	40	40	41	39	35	33	35	36	36	36
87.5	37	39	37	35	33	32	34	34	32	30
90.0	33	33	33	35	32	34	32	31	27	25
92.5	28	31	30	33	30	30	27	26	22	22
95.0	25	26	29	29	29	24	24	23	20	20
97.5	26	25	25	26	25	21	24	20	19	17
100.0	26	24	19	23	22	17	19	18	17	16
102.5	22	20	17	21	19	15	17	16	16	15
105.0	21	20	17	19	16	15	14	15	16	14
107.5	18	17	13	15	14	13	12	14	13	12
110.0	12	12	10	11	12	10	10	10	10	10
112.5	9	9	8	9	10	9	8	9	8	8
115.0	8	8	8	8	8	8	8	8	8	8
117.5	8	8	8	8	8	8	8	8	8	8
120.0	8	8	8	8	8	8	8	8	9	9
122.5	8	8	8	9	8	8	8	9	9	9
125.0	9	9	9	9	9	9	9	9	9	9
127.5	9	9	9	9	9	9	9	9	9	9
130.0	9	9	9	9	9	9	9	9	9	9

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**CANDELA TABULATION - (Cont.)**

132.5	10	10	10	10	10	10	10	10	10	10
135.0	11	10	10	10	10	10	10	10	10	10
137.5	11	11	11	11	11	10	10	11	11	11
140.0	12	12	12	11	12	11	11	11	12	12
142.5	13	13	13	13	12	12	12	12	13	13
145.0	14	14	14	14	13	13	13	13	14	14
147.5	16	16	16	16	15	15	14	15	15	15
150.0	18	18	18	17	17	16	16	16	17	17
152.5	20	20	20	19	19	18	18	18	19	19
155.0	22	22	22	21	21	20	20	19	21	21
157.5	24	24	24	23	23	22	22	21	23	23
160.0	26	26	26	25	24	23	23	22	23	24
162.5	27	27	26	24	23	23	23	23	23	20
165.0	27	26	26	22	19	17	17	17	15	12
167.5	22	22	19	17	14	12	12	12	10	9
170.0	13	13	12	10	9	8	7	6	5	4
172.5	5	5	4	3	3	2	2	1	1	1
175.0	1	1	1	1	1	1	1	1	1	1
177.5	1	1	1	1	1	1	1	1	1	1
180.0	1	1	1	1	1	1	1	1	1	1

**Vert. Horizontal Angles**

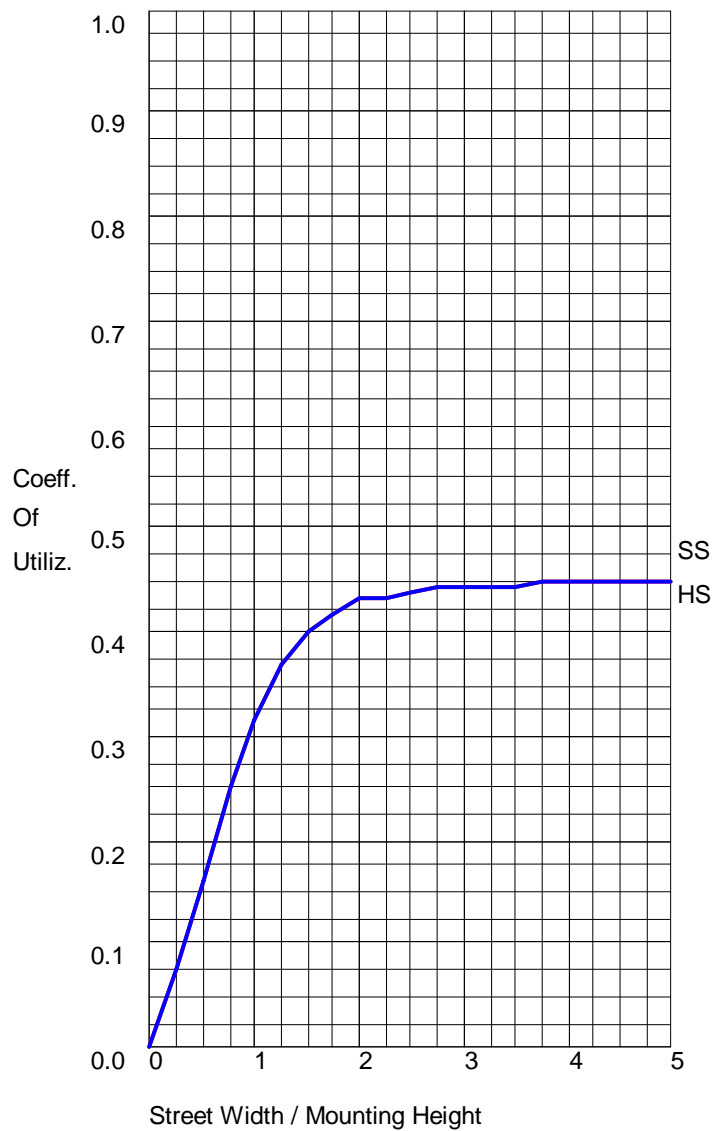
	<u>90</u>
0.0	1
2.5	1
5.0	2
7.5	3
10.0	4
12.5	6
15.0	15
17.5	49
20.0	76
22.5	184
25.0	218
27.5	275
30.0	301
32.5	330
35.0	349
37.5	382
40.0	398
42.5	405
45.0	403
47.5	402
50.0	371
52.5	374
55.0	338
57.5	294
60.0	248
62.5	167
65.0	75
67.5	33
70.0	28
72.5	30
75.0	34
77.5	36

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CANDELA TABULATION - (Cont.)

80.0	39
82.5	43
85.0	37
87.5	29
90.0	25
92.5	22
95.0	21
97.5	18
100.0	16
102.5	15
105.0	14
107.5	12
110.0	10
112.5	8
115.0	8
117.5	8
120.0	9
122.5	9
125.0	9
127.5	9
130.0	9
132.5	10
135.0	10
137.5	11
140.0	12
142.5	13
145.0	14
147.5	15
150.0	17
152.5	19
155.0	21
157.5	23
160.0	24
162.5	19
165.0	12
167.5	9
170.0	4
172.5	1
175.0	1
177.5	1
180.0	1

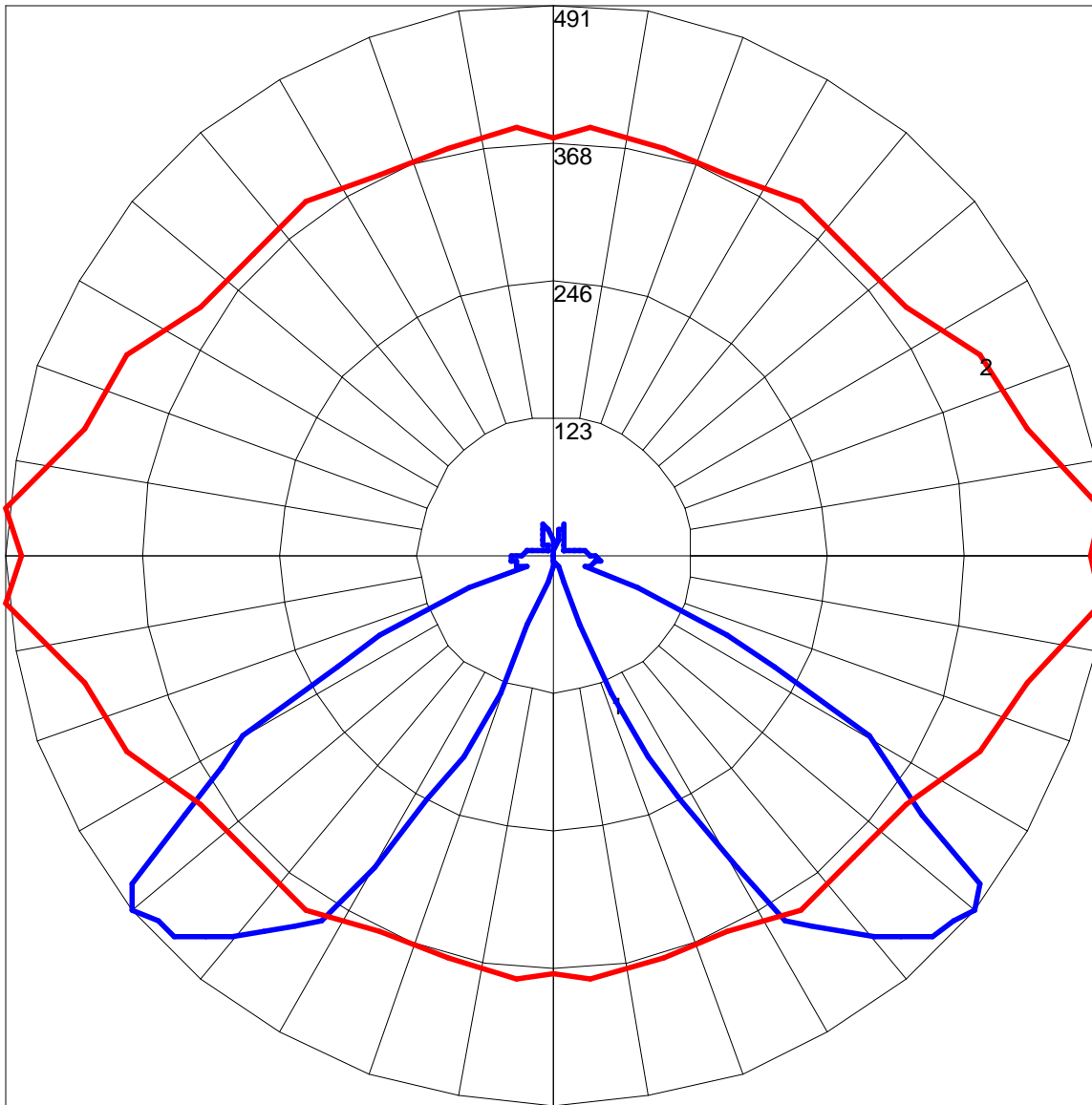
### COEFFICIENTS OF UTILIZATION



### FLUX DISTRIBUTION

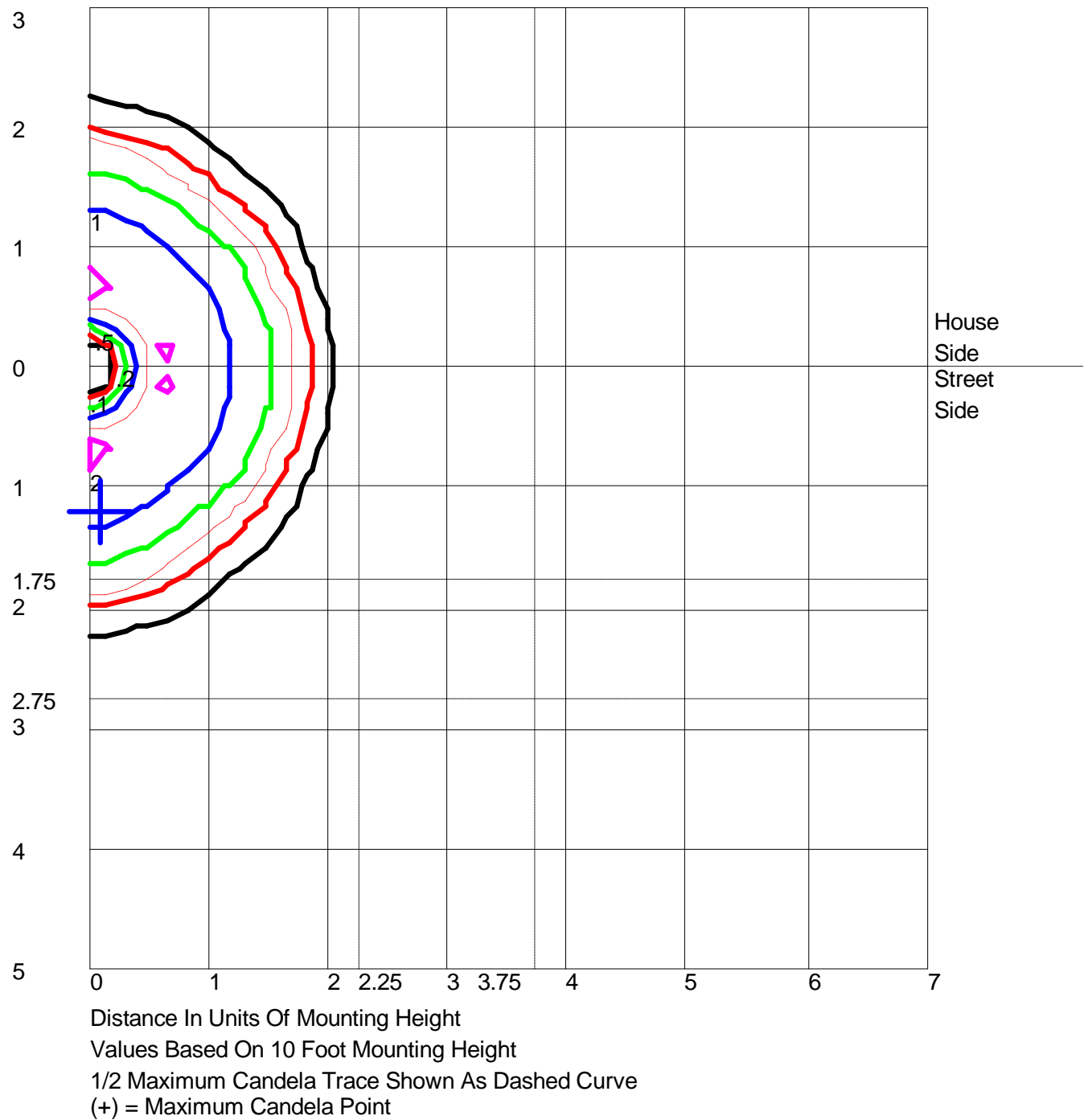
	Lumens	Percent Of Luminaire
Downward Street Side	569.9	46.3
Downward House Side	569.9	46.3
Downward Total	1139.8	92.5
Upward Street Side	46.0	3.7
Upward House Side	46.0	3.7
Upward Total	92.0	7.5
Total Flux	1231.8	100.0

POLAR GRAPH



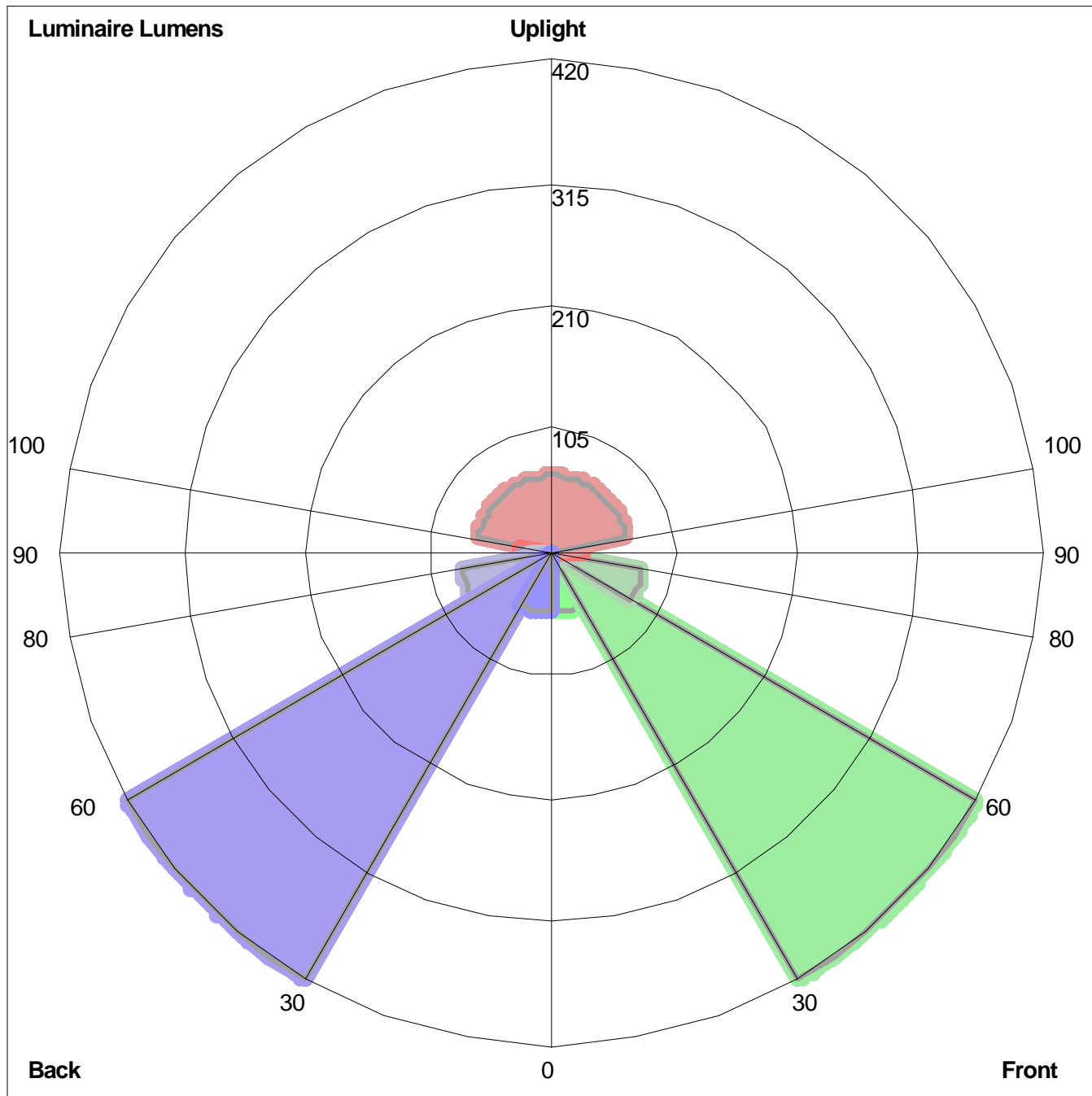
Maximum Candela = 491 Located At Horizontal Angle = 5, Vertical Angle = 50  
# 1 - Vertical Plane Through Horizontal Angles (5 - 185) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (50) (Through Max. Cd.)

## ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=51.6, Medium=420.1, High=78.6, Very High=19.6  
Back: Low=51.6, Medium=420.1, High=78.6, Very High=19.6  
Uplight: Low=27.5, High=64.6

BUG Rating : B1-U3-G1