



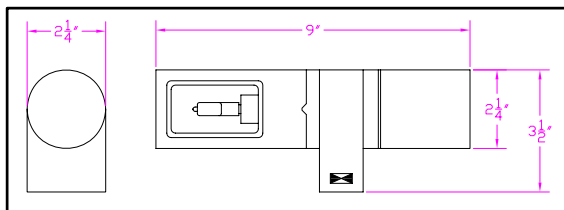
IES ROAD REPORT
PHOTOMETRIC FILENAME : LLI040808A.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LLI 0408-08A
[TESTLAB] LIGHT LABORATORY INC
[ISSUEDATE] 5/27/2008
[MANUFAC] HK LIGHTING GROUP
[LUMCAT] ZXF50i
[LUMINAIRE] 9"L X 2-1/4"W. X 3-1/2"H. FLOOD & AREA FIXTURE
[MORE] NATURAL ALUMINUM REFLECTOR WITH CLEAR GLASS LENS
[BALLASTCAT] B+L TECH. MS90117
[BALLAST] INPUT;120V 50/60Hz, OUTPUT;12V, 75W MAX
[LAMPPOSITION] 270,90
[LAMPCAT] PLUSRITE JC 12V50W
[_LAMPLUM] 900
[_INPUT] 120VAC, 47.60W

CHARACTERISTICS

IES Classification	Type IV
Longitudinal Classification	Very Short
Cutoff Classification (deprecated)	Non-Cutoff
Total Rated Lamp Lumens	900
Maximum Candela	251
Maximum Candela Angle	5H 50V
Maximum Candela At 90 Degrees Vertical	170 (18.9% Lamp Lms)
Maximum Candela from 80 to <90 Degrees Vertical	187 (20.8% Lamp Lms)
Downward Total Efficiency	37.4%
Total Luminaire Watts	48
Ballast Factor	1.00



NOTE: ALL TESTS ASSUME BALLAST FACTOR (BF) = 1.0 UNLESS STATED.
IF TEST OR OTHER BALLAST USED HAS A BF OTHER THAN 1.0, ALL
LUMEN, CANDELA, AND LUMINANCE VALUES SHOULD BE MULTIPLIED BY
THE BF, CU, EFFICIENCY AND % FLUX VALUES REMAIN AS LISTED.
TOTAL WATTS VALUE APPLIES ONLY TO TESTED BALLAST.

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	10.6	1.2	1.7
FM - Front-Medium (30-60)	131.1	14.6	21.0
FH - Front-High (60-80)	134.2	14.9	21.5
FVH - Front-Very High (80-90)	60.5	6.7	9.7
BL - Back-Low (0-30)	0.0	0.0	0.0
BM - Back-Medium (30-60)	0.0	0.0	0.0
BH - Back-High (60-80)	0.0	0.0	0.0
BVH - Back-Very High (80-90)	0.0	0.0	0.0
UL - Uplight-Low (90-100)	58.3	6.5	9.3
UH - Uplight-High (100-180)	228.7	25.4	36.7
Total	623.4	69.3	100.0

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	1	1	1	1	1	1	1	1	1	1
5	3	3	3	3	2	2	2	1	1	1
10	8	8	8	7	6	5	3	2	2	1
15	18	18	17	14	11	9	6	4	2	1
20	42	41	37	29	21	15	9	5	3	1
25	98	92	87	78	35	25	14	7	3	1
30	121	120	117	106	94	46	14	9	4	1
35	144	143	134	119	103	91	21	12	5	1
40	200	199	186	156	115	106	46	8	5	2
45	246	247	239	214	161	133	49	10	6	2
50	249	251	251	246	209	176	49	11	6	2
55	242	244	246	246	220	197	130	13	7	2
60	229	231	233	240	222	198	146	14	8	2
65	214	216	219	227	212	195	149	15	9	1
70	199	201	205	213	200	186	151	16	9	1
75	184	186	190	199	187	176	151	18	12	1
80	169	172	177	187	176	171	148	20	14	1
85	159	161	167	177	167	162	142	20	12	1
90	151	153	160	170	161	154	85	20	11	1
95	144	147	158	170	161	163	145	20	12	1
100	134	139	158	172	161	168	147	20	13	2
105	126	133	159	174	160	165	150	18	11	2
110	127	137	164	178	166	167	153	15	8	2
115	148	153	175	186	173	167	146	17	8	2
120	171	174	188	194	181	160	129	13	7	2
125	191	193	200	206	189	173	56	11	6	2
130	204	205	210	207	179	144	38	10	6	2
135	205	206	197	171	125	106	40	9	5	1
140	161	160	146	122	100	89	25	12	4	1
145	125	124	118	107	90	75	19	10	4	1
150	107	106	101	88	76	28	17	8	3	1
155	68	67	63	40	32	20	11	6	3	1
160	30	28	27	22	17	11	7	4	2	1
165	14	14	13	11	9	7	4	3	1	1
170	4	4	3	3	2	2	2	1	1	1
175	1	1	1	1	1	1	1	1	1	1
180	1	1	1	1	1	1	1	1	1	1

Vert. Angles	Horizontal Angles									
	<u>90</u>	<u>95</u>	<u>105</u>	<u>115</u>	<u>125</u>	<u>135</u>	<u>145</u>	<u>155</u>	<u>165</u>	<u>175</u>
0	1	1	1	1	1	1	1	1	1	1
5	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0	0
45	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0
55	0	0	0	0	0	0	0	0	0	0

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CANDELA TABULATION - (Cont.)

60	0	0	0	0	0	0	0	0	0	0
65	0	0	0	0	0	0	0	0	0	0
70	0	0	0	0	0	0	0	0	0	0
75	0	0	0	0	0	0	0	0	0	0
80	0	0	0	0	0	0	0	0	0	0
85	0	0	0	0	0	0	0	0	0	0
90	0	0	0	0	0	0	0	0	0	0
95	0	0	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0	0	0
105	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0	0	0
115	0	0	0	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0	0	0	0
125	0	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0
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	1	1	1	1	1	1	1	1	1	1

Vert. Horizontal Angles
Angles

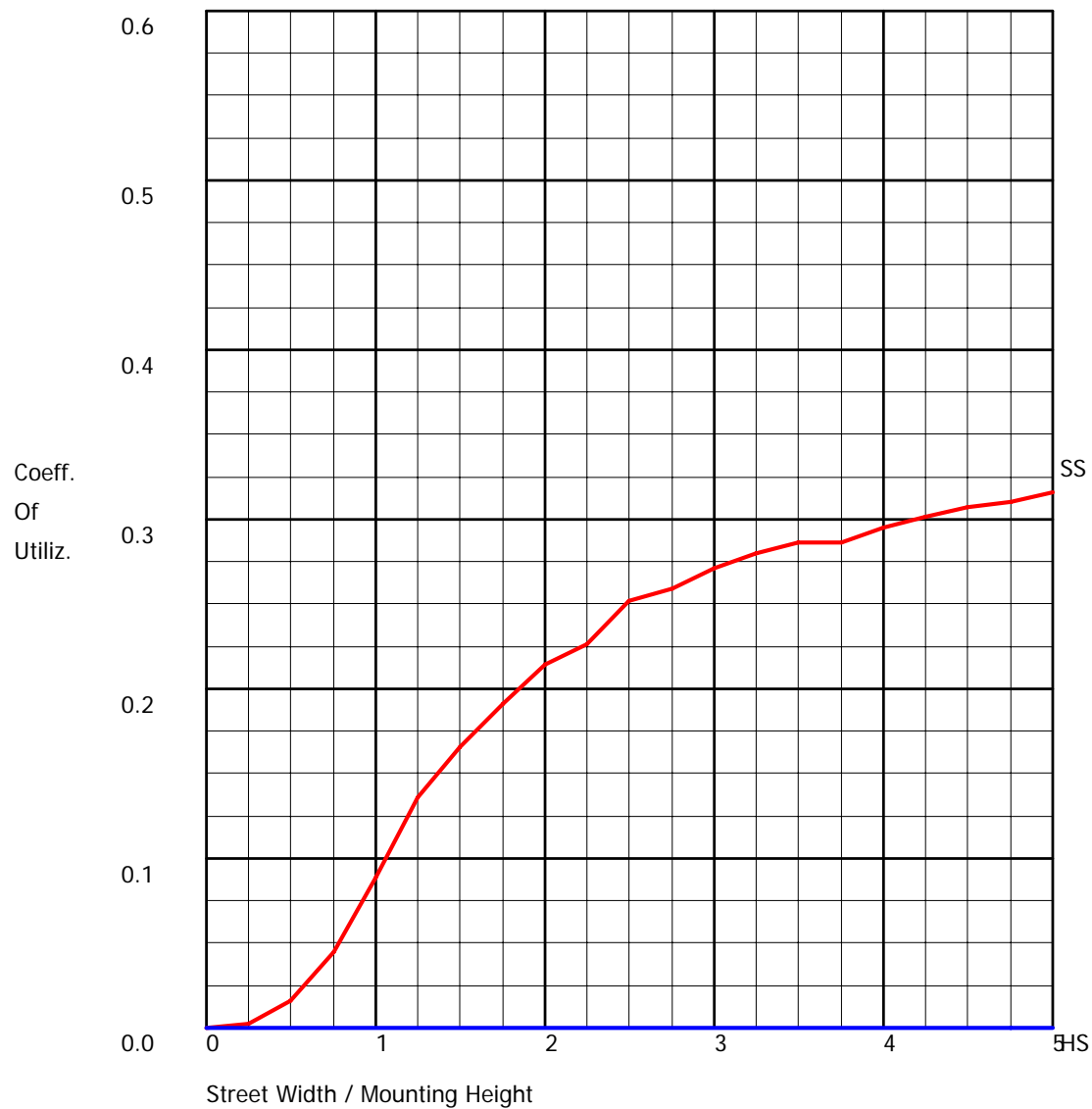
	<u>180</u>
0	1
5	0
10	0
15	0
20	0
25	0
30	0
35	0
40	0
45	0
50	0
55	0
60	0
65	0
70	0
75	0
80	0
85	0
90	0
95	0
100	0
105	0
110	0
115	0
120	0
125	0
130	0

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CANDELA TABULATION - (Cont.)

135	0
140	0
145	0
150	0
155	0
160	0
165	0
170	0
175	0
180	1

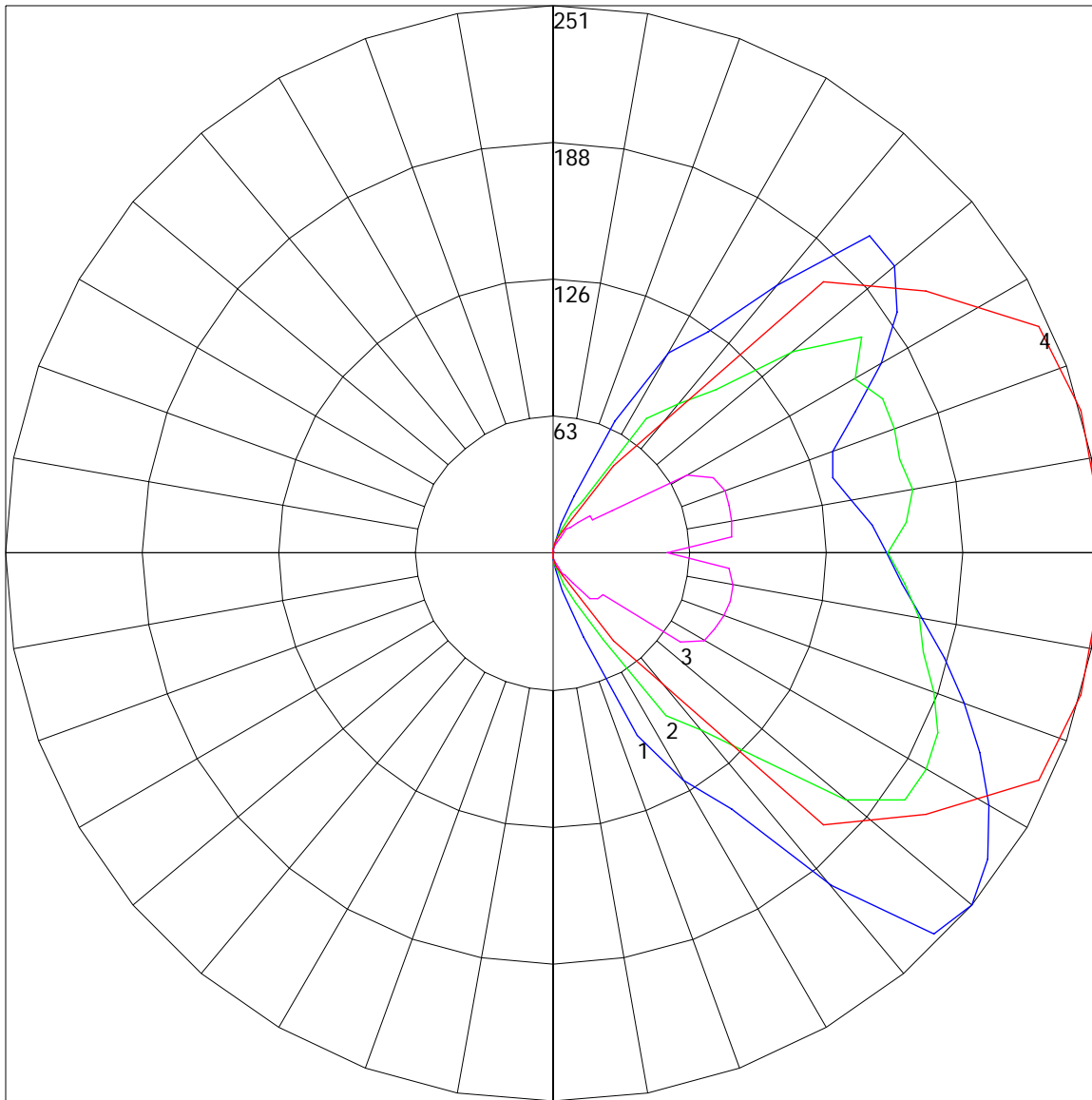
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

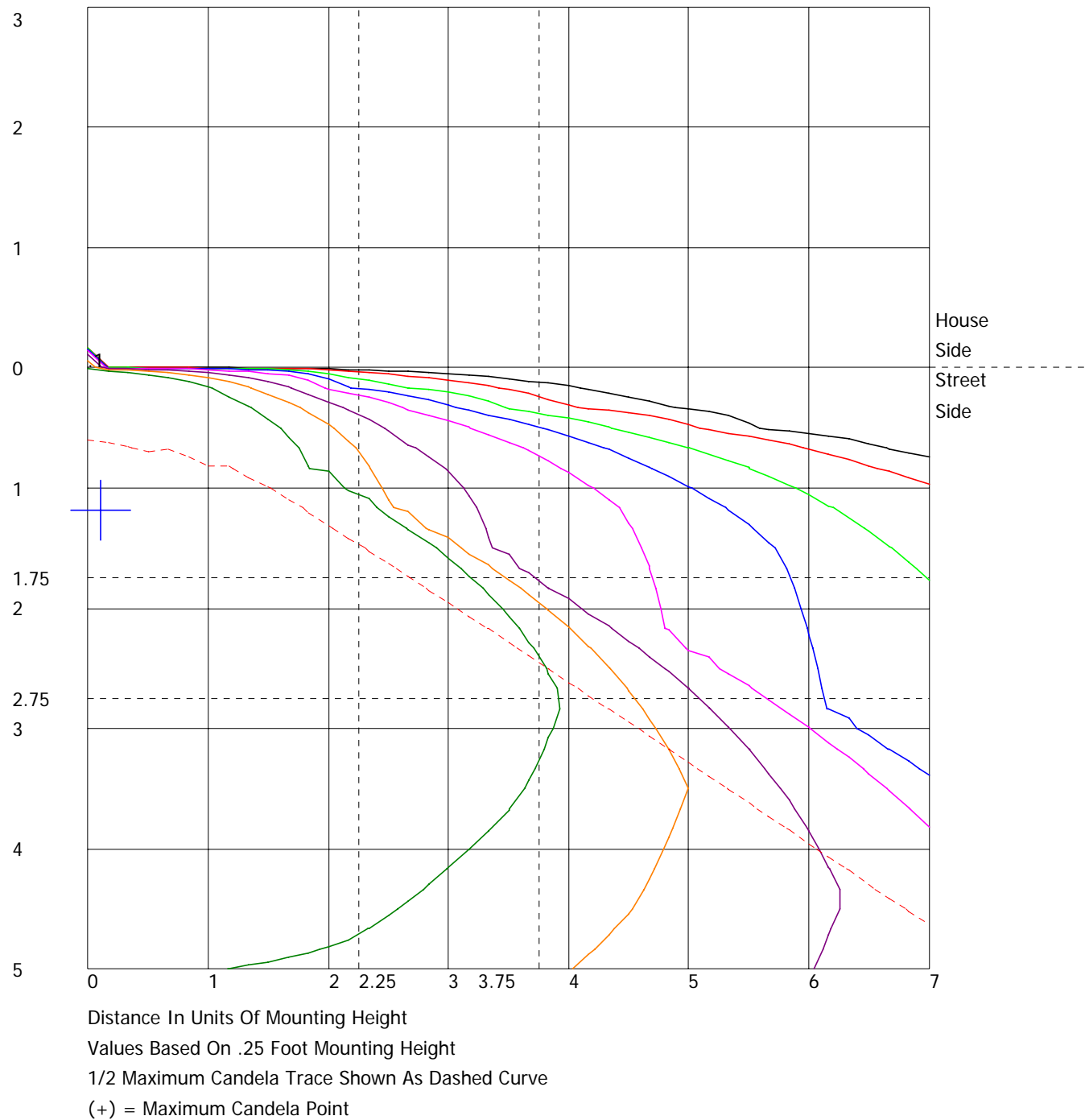
	Lumens	Percent Of Lamp
Downward Street Side	336.5	37.4
Downward House Side	0.0	0.0
Downward Total	336.5	37.4
Upward Street Side	286.9	31.9
Upward House Side	0.0	0.0
Upward Total	286.9	31.9
Total Flux	623.4	69.3

POLAR GRAPH

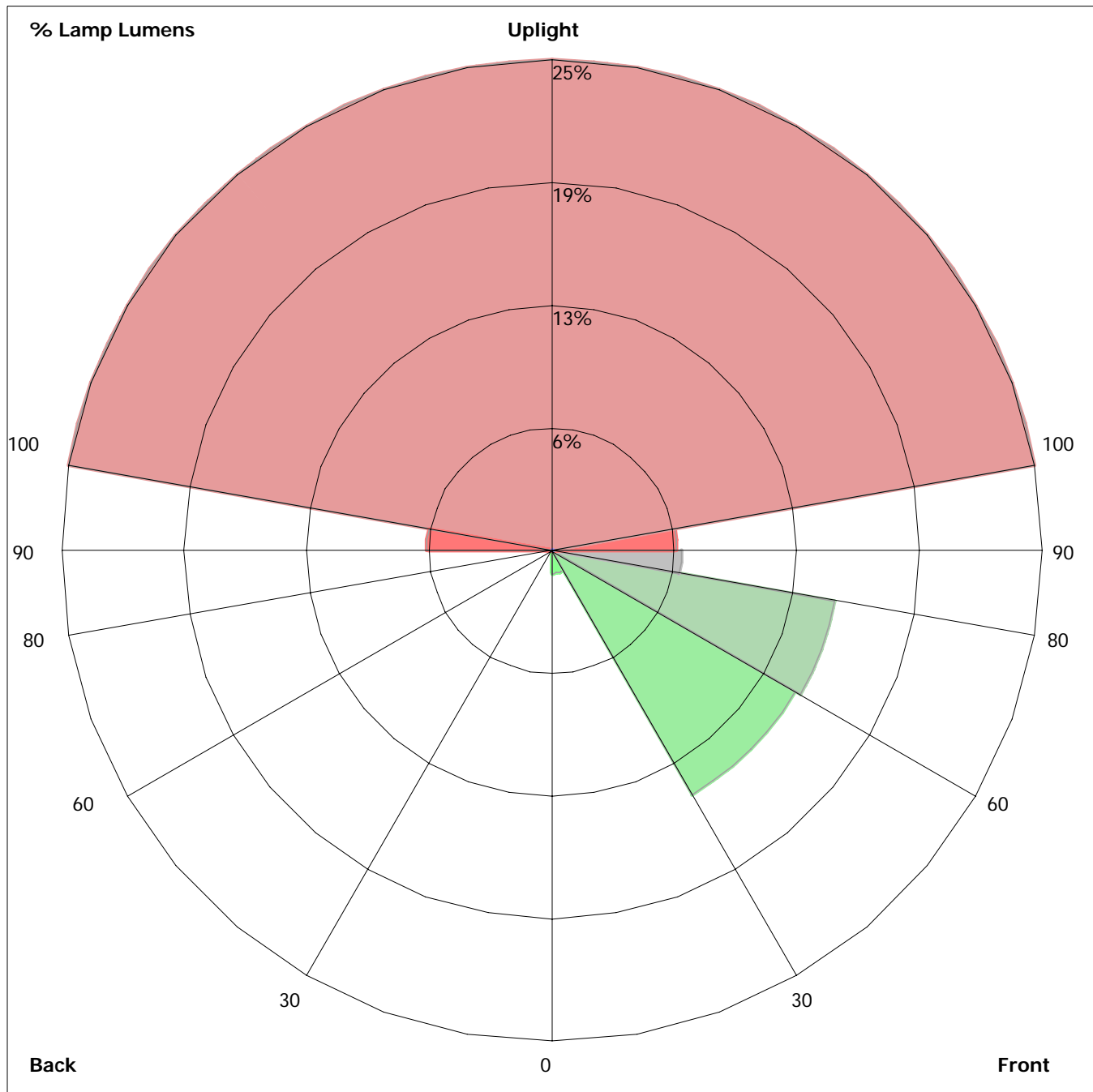


Maximum Candela = 251 Located At Horizontal Angle = 5, Vertical Angle = 50
1 - Vertical Plane Through Horizontal Angles (5 - 185) (Through Max. Cd.) : BLUE
2 - Vertical Plane Through Horizontal Angles (45 - 225) : GREEN
3 - Vertical Plane Through Horizontal Angles (60 - 240) : MAGENTA
4 - Horizontal Cone Through Vertical Angle (50) (Through Max. Cd.) : RED

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Percent Lamp Lumens:
Front: Low=1.2%, Medium=14.6%, High=14.9%, Very High=6.7%
Back: Low=0.0%, Medium=0.0%, High=0.0%, Very High=0.0%
Uplight: Low=6.5%, High=25.4%