

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 707_WE_W6_LO_359_WH-AL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L042412203 (SOURCE REPORT FOR REFERENCE)

[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB

[ISSUE DATE] 5/31/2024

[MANUFAC] Vode Lighting LLC

[LUMCAT] 707-WE-48-35-90-W6_LO

[LUMINAIRE] Wedge, Iso, diffuse, 48", 3500K, 90 CRI, low output

[MORE] Wedge, Low Output, White

[TEST PROCEDURE] IESNA:LM-79-19

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1773
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	119
Total Luminaire Watts	14.9
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	2.70
Spacing Criterion (Diagonal)	2.38
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.13 ft
Luminous Height	0.25 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2173	2166	2395
55	3545	2389	2522
65	4766	2588	2635
75	5143	2582	2729
85	7324	2613	2814

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CANDELA TABULATION

	<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	110.04	110.04	110.04	110.04	110.04	110.04	110.04	110.04	110.04	110.04
5	110.04	110.04	110.04	109.62	109.20	109.62	110.04	110.88	111.30	111.30
10	107.94	108.36	108.36	108.36	108.78	109.20	110.04	111.30	112.14	112.98
15	105.84	105.84	106.26	106.68	107.10	107.94	110.04	111.72	113.40	114.66
20	102.06	102.48	103.32	103.74	105.00	106.68	109.20	112.98	117.60	123.06
25	97.86	98.28	99.54	100.80	102.48	105.42	112.14	119.28	128.52	136.92
30	92.82	93.24	94.92	96.60	99.96	107.52	118.02	128.52	139.02	148.68
35	86.52	87.36	89.46	92.40	99.54	110.88	123.90	136.08	147.84	159.60
40	80.22	81.06	84.00	89.04	99.96	114.66	130.20	144.06	157.08	169.26
45	78.96	80.22	83.16	92.40	107.52	124.32	139.02	152.88	165.48	178.08
50	96.60	97.44	99.54	108.78	121.80	135.66	150.36	163.80	175.98	187.74
55	107.10	107.94	113.40	125.58	139.02	150.78	162.54	174.72	187.74	199.08
60	111.72	112.56	120.54	135.66	149.94	163.38	174.30	183.54	194.46	206.64
65	110.46	112.14	124.32	140.70	155.82	169.26	180.60	190.26	199.50	212.10
70	99.96	103.74	118.44	135.24	150.78	164.64	177.24	187.74	197.40	208.74
75	79.38	86.10	101.22	118.44	133.98	149.52	162.54	174.30	187.74	201.60
80	63.42	72.66	89.46	105.84	121.80	136.50	149.94	164.64	180.60	195.30
85	52.92	63.84	79.38	95.76	111.30	127.26	141.54	157.50	173.46	187.74
90	48.30	57.96	73.50	89.46	104.58	119.28	133.56	149.52	165.48	180.60
95	48.72	57.96	72.24	87.36	102.48	116.76	130.20	145.74	161.28	175.56
100	55.44	60.06	73.08	88.62	102.48	117.18	129.78	141.54	155.40	168.84
105	65.10	65.52	78.12	91.56	105.00	118.02	129.78	139.86	149.94	162.54
110	78.12	77.70	86.94	98.28	110.88	122.22	133.14	142.80	150.36	157.92
115	75.60	74.76	78.96	89.46	99.96	110.88	120.54	128.94	136.08	144.90
120	68.04	67.62	68.04	76.86	86.10	94.50	102.06	109.62	117.60	128.10
125	59.22	58.38	56.28	62.16	69.30	76.02	82.32	90.30	99.96	109.62
130	41.16	40.32	38.22	38.64	45.36	52.92	60.90	70.56	80.22	88.62
135	5.04	6.72	8.82	11.76	21.42	32.34	42.42	51.66	59.64	66.78
140	4.62	4.62	4.62	4.62	7.56	15.96	24.78	33.18	41.58	49.98
145	4.20	4.20	4.62	4.20	4.20	7.98	14.70	22.26	29.82	36.96
150	4.20	4.20	4.20	4.20	4.20	4.20	7.14	11.76	18.06	23.52
155	4.20	4.20	4.20	4.20	4.20	3.78	3.78	5.04	7.56	11.34
160	3.78	3.78	4.20	3.78	3.78	3.78	3.78	3.78	3.78	3.78
165	3.78	3.78	3.78	3.78	3.78	3.78	3.78	3.78	3.36	3.36
170	3.78	3.78	3.78	3.78	3.78	3.78	3.78	3.36	3.36	3.36
175	3.78	3.78	3.78	3.78	3.78	3.78	3.78	3.36	3.36	3.36
180	3.36	3.36	3.36	3.36	3.36	3.36	3.36	3.36	3.36	3.36

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>	<u>95</u>
0	110.04	110.04	110.04	110.04	110.04	110.04	110.04	110.04	110.04	110.04
5	111.72	111.30	111.72	111.72	111.72	111.72	111.72	111.30	110.46	111.30
10	113.40	113.82	114.24	114.66	115.08	115.50	115.08	115.08	114.24	115.08
15	116.76	119.28	120.96	124.32	126.84	128.52	129.78	130.20	129.78	130.20
20	128.94	133.98	138.60	143.22	146.58	149.10	150.36	151.20	150.78	151.20
25	143.22	149.94	155.82	161.70	165.48	168.42	170.52	171.78	170.94	171.36
30	157.08	164.64	172.20	178.50	183.54	186.90	189.42	190.68	190.26	190.68
35	170.10	178.92	187.32	194.04	199.92	203.70	207.06	208.74	208.32	208.32
40	180.18	190.26	199.92	208.74	215.04	219.66	223.02	224.70	224.70	224.28
45	189.84	201.60	212.52	220.92	228.06	233.52	237.30	238.98	239.40	238.98
50	199.50	211.26	222.18	231.42	238.98	244.86	249.48	251.16	251.58	251.16
55	209.58	219.24	229.32	240.66	248.64	254.94	259.14	261.66	262.08	261.24
60	217.56	226.80	236.46	246.54	255.78	262.50	267.12	269.64	270.48	269.22

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65	223.86	233.52	241.08	251.16	260.40	267.54	272.58	275.10	275.94	275.10
70	221.34	230.58	240.24	252.84	262.50	270.06	275.10	278.04	278.88	278.04
75	214.62	227.22	241.08	252.84	262.50	270.06	275.52	278.46	279.30	278.46
80	208.74	223.86	237.72	249.48	259.98	267.54	273.00	276.36	277.20	276.36
85	203.70	218.40	232.68	244.44	254.94	262.50	268.38	271.74	272.58	271.74
90	196.98	212.52	225.96	237.72	247.80	255.36	261.24	264.60	265.44	264.18
95	189.00	204.12	217.56	229.74	239.82	247.38	252.42	255.78	256.62	255.78
100	182.28	195.30	208.32	219.66	229.32	236.46	241.92	244.44	245.28	244.86
105	174.72	184.38	196.14	207.06	216.30	223.44	228.90	231.00	231.84	231.42
110	167.16	175.98	183.96	192.78	202.02	208.74	213.78	215.88	216.72	216.30
115	155.40	163.38	170.52	177.24	185.64	191.94	196.56	199.08	199.50	199.08
120	137.76	146.16	152.88	159.60	167.16	173.46	178.08	180.18	181.02	180.18
125	118.44	126.00	133.56	141.12	148.26	154.14	157.92	160.44	161.28	160.44
130	96.60	106.26	114.66	122.22	128.52	133.14	137.34	139.44	140.28	139.44
135	74.76	83.16	91.56	99.96	107.94	112.56	115.50	117.60	118.44	117.60
140	57.96	65.94	73.08	78.96	83.58	87.78	90.72	92.40	94.08	92.82
145	43.26	49.56	55.44	60.48	64.26	67.62	69.72	71.40	72.66	71.40
150	28.98	34.02	38.64	42.42	45.78	48.30	49.98	51.24	52.08	51.66
155	15.54	19.74	23.10	26.04	28.14	30.24	31.50	32.76	32.76	32.76
160	5.46	6.72	8.82	10.50	12.18	13.44	14.70	15.12	15.12	15.12
165	3.36	3.36	2.94	2.94	2.94	2.94	2.94	3.36	3.36	2.94
170	3.36	3.36	3.36	2.94	2.94	2.94	2.94	3.36	3.36	3.36
175	3.36	3.36	3.36	3.36	2.94	2.94	2.94	2.94	2.94	2.94
180	3.36	3.36	3.36	3.36	3.36	3.36	3.36	3.36	3.36	3.36

Vert. Angles	Horizontal Angles									
	100	105	110	115	120	125	130	135	140	145
0	110.04	110.04	110.04	110.04	110.04	110.04	110.04	110.04	110.04	110.04
5	111.30	111.72	111.72	111.72	111.72	111.72	111.72	111.72	111.30	110.88
10	115.08	115.50	115.08	114.66	114.24	113.82	113.40	112.98	112.14	111.30
15	129.78	128.52	126.84	124.32	120.96	118.44	115.92	114.66	112.98	111.30
20	150.78	149.10	146.58	143.22	138.60	133.98	128.94	123.48	116.76	111.72
25	170.52	168.42	165.48	161.28	155.82	149.94	143.64	136.08	128.52	119.28
30	189.42	186.90	183.12	178.50	172.20	165.06	157.50	148.26	138.60	128.10
35	207.06	204.12	199.92	194.04	186.48	178.08	169.26	160.02	148.68	136.92
40	223.02	219.66	215.04	208.32	200.76	190.68	180.60	168.84	156.66	143.64
45	236.88	233.10	228.06	221.34	212.10	201.60	190.26	178.50	165.48	153.30
50	249.06	244.86	238.98	231.00	221.34	210.42	198.66	187.74	176.40	163.80
55	258.72	254.52	248.22	240.24	229.74	219.66	210.00	197.82	185.64	172.62
60	266.70	262.08	255.36	246.96	235.20	226.38	216.72	205.38	192.36	181.44
65	272.16	267.12	259.98	250.32	240.66	231.84	223.02	210.00	197.82	187.74
70	274.68	269.22	262.08	252.42	241.08	229.74	219.24	206.22	193.62	182.28
75	275.10	269.64	262.08	252.42	239.40	225.96	212.94	199.92	185.64	170.94
80	273.00	267.12	259.56	249.06	237.30	223.02	208.74	193.20	178.08	162.12
85	268.38	262.08	254.10	244.44	232.26	218.82	203.28	186.06	170.52	154.14
90	261.24	255.36	247.80	237.30	224.70	211.26	195.72	179.76	164.64	148.26
95	252.42	247.38	239.82	230.16	218.82	204.12	189.84	173.88	159.18	143.22
100	241.92	236.46	229.32	219.24	207.90	194.46	180.60	167.58	152.88	138.18
105	228.48	223.44	216.30	206.64	195.72	183.54	173.04	160.44	147.00	136.08
110	213.36	208.32	201.60	193.20	183.12	174.72	165.90	154.56	145.32	136.50
115	196.56	191.52	185.64	176.40	168.42	160.44	151.62	141.12	130.62	121.38
120	177.66	173.04	167.58	159.18	151.62	143.64	135.24	124.32	112.98	102.90
125	157.92	154.14	148.26	141.12	132.30	124.32	115.08	105.84	95.76	84.00
130	136.92	133.56	128.52	121.80	113.82	104.16	93.24	84.42	76.02	66.78
135	115.50	112.14	107.10	99.12	91.56	83.16	73.50	64.68	56.28	48.30

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CANDELA TABULATION - (Cont.)

140	90.72	87.78	83.16	78.12	72.24	65.52	57.96	49.98	42.00	32.76
145	69.72	67.62	64.26	60.06	55.02	49.56	43.26	36.54	29.82	21.84
150	49.98	48.30	45.36	42.42	38.64	34.44	28.98	23.52	18.06	12.18
155	31.92	30.24	28.14	25.62	22.68	18.90	15.12	10.92	7.14	4.62
160	14.70	13.44	11.76	10.50	8.40	6.30	4.62	3.36	3.78	3.78
165	2.94	2.94	2.94	2.94	3.36	3.36	3.36	3.36	3.78	3.78
170	2.94	2.94	2.94	2.94	3.36	3.36	3.36	3.36	3.78	3.78
175	2.94	2.94	3.36	3.36	3.36	3.36	3.36	3.36	3.78	3.78
180	3.36	3.36	3.36	3.36	3.36	3.36	3.36	3.36	3.36	3.36

**Vert.
Angles**

Horizontal Angles

	<u>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>
0	110.04	110.04	110.04	110.04	110.04	110.04	110.04
5	110.04	109.62	109.62	109.62	110.04	110.04	110.04
10	110.04	108.78	108.36	108.36	108.36	108.36	107.94
15	109.62	107.94	106.68	106.26	106.26	105.84	105.42
20	109.20	106.68	105.00	103.74	102.90	102.48	102.06
25	110.46	105.00	102.48	100.38	99.12	97.86	97.44
30	117.18	105.84	99.12	96.60	94.50	92.82	92.40
35	124.74	110.46	97.44	91.98	89.46	87.36	86.52
40	129.78	115.50	99.96	86.52	83.16	81.06	79.80
45	139.86	123.90	108.36	93.24	85.26	82.32	81.06
50	150.36	136.08	121.38	108.36	97.02	96.18	95.34
55	160.44	149.10	136.08	121.80	107.52	103.74	103.32
60	170.94	158.76	144.90	129.78	114.66	105.42	105.00
65	176.82	164.22	149.52	133.98	116.76	103.74	103.32
70	170.52	157.50	142.38	126.42	108.78	92.40	90.72
75	157.92	142.80	127.68	111.30	94.50	77.28	71.82
80	147.00	131.88	115.50	99.54	81.90	65.94	56.28
85	137.34	121.80	106.26	90.30	73.08	57.54	47.04
90	130.62	115.08	99.54	84.00	68.04	53.34	41.16
95	127.26	112.56	97.02	81.48	65.10	50.82	42.42
100	123.90	110.88	96.60	81.48	66.78	52.92	48.30
105	124.74	112.14	98.28	84.00	70.14	58.38	56.70
110	125.58	113.82	101.64	89.04	77.28	68.46	68.04
115	111.72	101.22	90.30	79.80	68.88	63.42	64.26
120	94.08	85.26	76.44	66.78	57.54	56.28	57.12
125	74.76	67.20	59.64	52.08	46.20	47.46	47.88
130	56.28	46.20	37.38	29.82	28.14	30.24	30.66
135	39.06	28.56	16.80	6.72	5.04	5.04	5.04
140	23.94	15.12	7.98	4.62	4.62	4.62	4.62
145	14.70	7.98	4.62	4.62	4.62	4.62	4.62
150	7.14	4.20	4.20	4.20	4.62	4.20	4.20
155	3.78	4.20	4.20	4.20	4.20	4.20	4.20
160	3.78	3.78	4.20	4.20	4.20	4.20	4.20
165	3.78	3.78	3.78	3.78	3.78	3.78	4.20
170	3.78	3.78	3.78	3.78	3.78	3.78	3.78
175	3.78	3.78	3.78	3.78	3.78	3.78	3.78
180	3.36	3.36	3.36	3.36	3.36	3.36	3.36

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	44.08	N.A.	2.50
0-30	106.54	N.A.	6.00
0-40	202.29	N.A.	11.40
0-60	505.71	N.A.	28.50
0-80	911.77	N.A.	51.40
0-90	1107.88	N.A.	62.50
10-90	1097.27	N.A.	61.90
20-40	158.21	N.A.	8.90
20-50	290.04	N.A.	16.40
40-70	504.35	N.A.	28.40
60-80	406.06	N.A.	22.90
70-80	205.13	N.A.	11.60
80-90	196.12	N.A.	11.10
90-110	349.16	N.A.	19.70
90-120	487.28	N.A.	27.50
90-130	582.25	N.A.	32.80
90-150	656.28	N.A.	37.00
90-180	665.32	N.A.	37.50
110-180	316.16	N.A.	17.80
0-180	1773.2	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	10.62
10-20	33.46
20-30	62.46
30-40	95.75
40-50	131.83
50-60	171.59
60-70	200.93
70-80	205.13
80-90	196.12
90-100	182.90
100-110	166.26
110-120	138.13
120-130	94.97
130-140	51.00
140-150	23.02
150-160	7.42
160-170	1.29
170-180	0.33

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	110	110	110	110	103	103	103	103	90	90	90	78	78	78	68	68	68	62
1	95	88	82	76	88	82	76	71	71	66	62	60	57	54	51	48	46	41
2	84	74	65	58	78	68	61	54	59	52	47	50	45	40	41	37	34	30
3	75	63	53	45	69	58	49	42	50	43	37	42	36	32	35	30	26	22
4	68	54	44	37	63	50	41	34	43	36	30	36	30	25	30	25	21	17
5	62	48	38	30	57	44	35	28	38	30	25	32	26	21	26	21	17	14
6	57	42	33	26	52	39	30	24	34	26	21	28	22	18	23	18	15	12
7	52	38	28	22	48	35	27	20	30	23	18	25	20	15	21	16	12	10
8	48	34	25	19	44	32	23	18	27	20	15	23	17	13	19	14	11	8
9	45	31	22	17	41	29	21	16	25	18	13	21	15	11	18	13	9	7
10	42	28	20	15	39	26	19	14	23	16	12	19	14	10	16	12	8	6

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UGR TABLE - CORRECTED

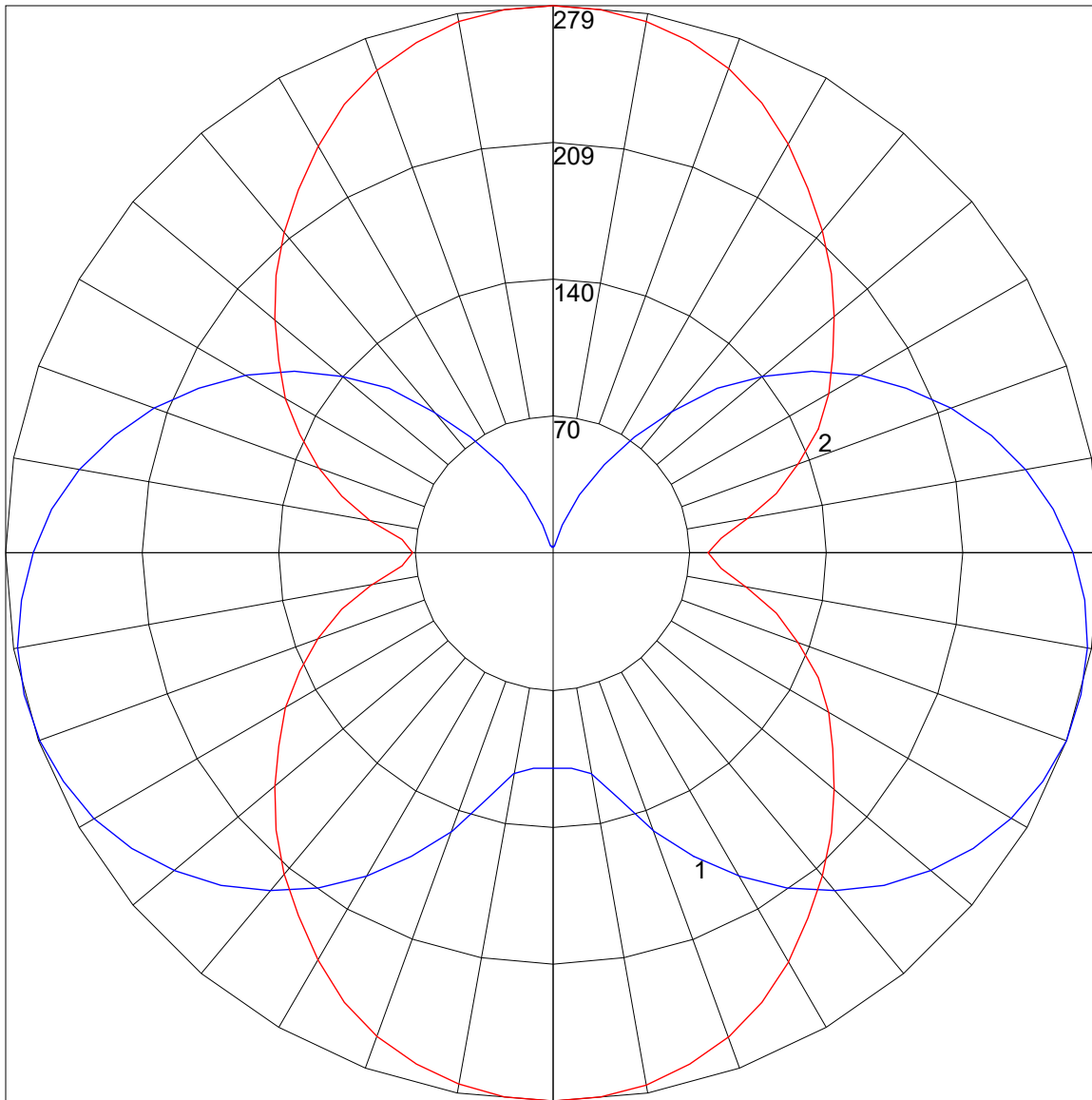
Reflectances

Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	9.5	10.6	10.3	11.5	12.6	15.8	17.0	16.6	17.9	18.9
	3H	11.7	12.8	12.5	13.7	14.8	19.6	20.7	20.5	21.6	22.7
	4H	12.5	13.5	13.3	14.4	15.5	21.6	22.6	22.4	23.5	24.6
	6H	13.1	14.0	13.9	14.9	16.0	23.7	24.6	24.5	25.5	26.6
	8H	13.3	14.2	14.1	15.1	16.2	24.7	25.7	25.6	26.6	27.7
	12H	13.5	14.4	14.3	15.3	16.4	25.9	26.8	26.8	27.7	28.8
4H	2H	11.7	12.7	12.5	13.6	14.7	16.1	17.1	16.9	18.0	19.1
	3H	14.1	15.0	14.9	15.9	17.0	20.1	21.0	20.9	21.9	23.0
	4H	15.0	15.8	15.9	16.7	17.9	22.1	23.0	23.0	23.9	25.0
	6H	15.7	16.4	16.6	17.4	18.5	24.4	25.1	25.3	26.1	27.2
	8H	16.0	16.7	16.8	17.6	18.8	25.6	26.3	26.4	27.2	28.4
	12H	16.2	16.8	17.1	17.8	19.0	26.9	27.5	27.8	28.4	29.6
8H	4H	16.5	17.2	17.4	18.2	19.3	22.3	23.0	23.2	23.9	25.1
	6H	17.5	18.1	18.4	19.1	20.2	24.7	25.3	25.6	26.2	27.4
	8H	17.9	18.5	18.8	19.4	20.6	25.9	26.5	26.9	27.5	28.6
	12H	18.3	18.8	19.2	19.7	20.9	27.4	27.9	28.3	28.8	30.1
12H	4H	17.0	17.7	17.9	18.6	19.8	22.3	22.9	23.2	23.9	25.0
	6H	18.2	18.7	19.1	19.7	20.9	24.7	25.2	25.6	26.2	27.4
	8H	18.7	19.2	19.6	20.2	21.4	26.0	26.5	26.9	27.5	28.7

Maximum UGR = 30.1

POLAR GRAPH



Maximum Candela = 279.3 Located At Horizontal Angle = 90, Vertical Angle = 75
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (75) (Through Max. Cd.)