

Photometric Report - (ecs-vtg4-wn-654-unv-32h-0ww) - Page 1 of 4

Fri Apr 27 17:42:33 2012

IESNA:LM-63-1995

Photopia 2.0.0.17 PHOTOMETRIC REPORT

PROJECT: ecs-vtg4-wn-654-unv-32h-0ww

OPTIONS:

Spawning 1 rays for each reaction.
Random number generator seed: 8.
Tracing 5 reflections.
Stop tracing ray at 1.0% of initial magnitude.
Tracing 499416 initial lamp rays.
Photometric test distance of 20.00 feet.

LUMENS EXITING SYSTEM:

Lumens(%)	Reflection
12781(42.6%)	0
7227(24.1%)	1
2096(7.0%)	2
1808(6.0%)	3
801(2.7%)	4
614(2.0%)	5
25330(84.4%)	Total

LUMEN INTERACTION WITH SYSTEM:

Absorbed(%)	Incident(%)	Layer Name
910(3.0%)	13978(46.6%)	LAMP-F54T5H01
36(0.1%)	555(1.9%)	LAMP-F54T5H02
1918(6.4%)	22568(75.2%)	Refl-Poly1
73(0.2%)	524(1.7%)	Refl-Poly2
2939(9.8%)	37626(125.4%)	Total

Absorbed(%)	Incident(%)	Material Name
946(3.2%)	14533(48.4%)	PHOSGLAS
1918(6.4%)	22568(75.2%)	ANOWHT01
73(0.2%)	524(1.7%)	PAINT001
2939(9.8%)	37626(125.4%)	Total

UNACCOUNTED LUMENS:

reached interreflection limit: 1730.79 (5.8%)
fell below continuation minimum: 0.00 (0.0%)
could not find in/out refractor facet: 0.00 (0.0%)
reached try limit for scatter bounce: 0.00 (0.0%)
lost elsewhere(i.e. outside distrib): 0.00 (0.0%)

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Number of Lamps: 6 Lumens per Lamp: 5000
Ballast Factor: 1.00 Ballast-Lamp Photometric Factor: 1.00
Luminaire Width: 1.1062 Length: 4.0000 Height: 0.1603
Photometry Type: C Units: feet

Candela Distribution:

	0.00	22.50	45.00	67.50	90.00
90.00	104	87.9	60.8	71.9	72.3
95.00	531	712	641	584	572
100.00	1304	1602	1780	1711	1624
105.00	2160	2078	2772	2898	2855
110.00	3146	2705	3249	3753	3907
115.00	3754	3348	3736	4046	4275
120.00	4323	4090	4163	4477	4544
125.00	4765	4519	4631	4975	5116
130.00	5127	4966	5015	5153	5231
135.00	5662	5389	5494	5730	5638
140.00	6060	5897	5670	5826	6001
145.00	6326	6131	6037	6134	6262
150.00	6446	6477	6382	6266	6302
155.00	6836	6723	6692	6827	6543
160.00	7145	7027	6877	6832	7035
165.00	7078	7346	7119	7140	6809
170.00	6879	7288	7071	7171	7153
175.00	7383	6866	7135	7012	7243
180.00	6348	6348	6348	6348	6348

Zonal Lumens		
Cone	Between	Lumens
90.0	87.5- 92.5	42.33
95.0	92.5- 97.5	339.76
100.0	97.5-102.5	884.79
105.0	102.5-107.5	1357.46
110.0	107.5-112.5	1704.20
115.0	112.5-117.5	1880.84
120.0	117.5-122.5	2036.97
125.0	122.5-127.5	2140.07
130.0	127.5-132.5	2132.32
135.0	132.5-137.5	2157.31
140.0	137.5-142.5	2063.26
145.0	142.5-147.5	1933.26
150.0	147.5-152.5	1747.16
155.0	152.5-157.5	1559.66
160.0	157.5-162.5	1304.15
165.0	162.5-167.5	1012.55
170.0	167.5-172.5	679.29
175.0	172.5-177.5	338.30
180.0	177.5-180.0	37.97

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fixt
0- 30	0	0.0	0.0
0- 40	0	0.0	0.0
0- 60	0	0.0	0.0
0- 90	21	0.1	0.1
90-120	7220	24.1	28.5
90-130	11451	38.2	45.2
90-150	19558	65.2	77.1
90-180	25330	84.4	99.9
0-180	25352	84.5	100.0

Total Luminaire Optical Efficiency = 84.5%

Coefficients of Utilization - Zonal Cavity Method:

pfc = 0.20

pcc	.8				.7				.5				.3				.1				0
pw	.7	.5	.3	.1	.7	.5	.3	.1	.5	.3	.1	.5	.3	.1	.5	.3	.1	.5	.3	.1	0
RCR																					
0	80	80	80	80	68	68	68	68	47	47	47	27	27	27	8	8	8	8	8	8	0
1	73	69	66	64	62	59	57	55	40	39	38	23	22	22	7	7	7	7	7	7	0
2	66	61	56	52	56	52	48	45	35	33	31	20	19	18	6	6	6	6	6	6	0
3	60	53	47	43	51	45	41	37	31	28	26	18	16	15	5	5	5	5	5	5	0
4	55	47	41	36	47	40	35	31	27	24	22	16	14	13	5	4	4	4	4	4	0
5	50	41	35	30	43	35	30	26	24	21	18	14	12	11	4	4	3	4	4	3	0
6	46	37	30	26	39	31	26	22	22	18	16	12	11	9	4	3	3	4	3	3	0
7	42	33	27	22	36	28	23	19	19	16	14	11	9	8	3	3	2	3	3	2	0
8	39	29	23	19	33	25	20	17	17	14	12	10	8	7	3	2	2	3	2	2	0
9	36	27	21	17	31	23	18	15	16	12	10	9	7	6	3	2	2	3	2	2	0
10	33	24	18	15	28	21	16	13	14	11	9	8	6	5	2	2	1	2	2	1	0