

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

Fri Apr 27 17:39:56 2012

IESNA:LM-63-1995

Photopia 2.0.0.17 PHOTOMETRIC REPORT

PROJECT: ecs-vtg4-mn-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
12768(42.6%)	0
8601(28.7%)	1
2322(7.7%)	2
1830(6.1%)	3
648(2.2%)	4
517(1.7%)	5
26689(89.0%)	Total

LUMEN INTERACTION WITH SYSTEM:

Absorbed(%)	Incident(%)	Layer Name
792(2.6%)	12205(40.7%)	LAMP-F54T5H01
31(0.1%)	489(1.6%)	LAMP-F54T5H02
1187(4.0%)	20980(69.9%)	Refl-Poly1
66(0.2%)	474(1.6%)	Refl-Poly2
2078(6.9%)	34150(113.8%)	Total

Absorbed(%)	Incident(%)	Material Name
824(2.7%)	12695(42.3%)	PHOSGLAS
1187(4.0%)	20980(69.9%)	ALMIRO04
66(0.2%)	474(1.6%)	PAINT001
2078(6.9%)	34150(113.8%)	Total

UNACCOUNTED LUMENS:

reached interreflection limit: 1232.57 (4.1%)
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	68.2	70.4	68.3	73.7	62.3
95.00	512	687	697	696	705
100.00	974	1405	1824	1783	1764
105.00	1824	1789	2746	2931	2963
110.00	2660	2163	3046	3784	3824
115.00	3510	2738	3397	3876	4204
120.00	4470	3430	3657	4190	4132
125.00	5364	4192	3891	4588	4838
130.00	6346	5207	4412	4337	4481
135.00	7061	6096	4663	5073	4854
140.00	7583	7042	5347	5119	5446
145.00	8520	7901	6461	5498	5220
150.00	8960	8572	7653	6349	6352
155.00	9408	9244	8433	7773	7635
160.00	9702	9921	8883	8803	8690
165.00	9796	10342	9906	9025	9195
170.00	9383	10376	10291	10117	10130
175.00	9211	9510	10195	10370	10402
180.00	9085	9085	9085	9085	9085

Zonal Lumens		
Cone	Between	Lumens
90.0	87.5- 92.5	38.05
95.0	92.5- 97.5	366.95
100.0	97.5-102.5	861.06
105.0	102.5-107.5	1305.14
110.0	107.5-112.5	1575.48
115.0	112.5-117.5	1722.47
120.0	117.5-122.5	1848.66
125.0	122.5-127.5	1994.99
130.0	127.5-132.5	2033.28
135.0	132.5-137.5	2111.40
140.0	137.5-142.5	2116.07
145.0	142.5-147.5	2100.99
150.0	147.5-152.5	2071.27
155.0	152.5-157.5	1967.44
160.0	157.5-162.5	1724.88
165.0	162.5-167.5	1375.02
170.0	167.5-172.5	964.70
175.0	172.5-177.5	476.31
180.0	177.5-180.0	54.33

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	19	0.1	0.1
90-120	6786	22.6	25.4
90-130	10729	35.8	40.2
90-150	19130	63.8	71.6
90-180	26689	89.0	99.9
0-180	26709	89.0	100.0

Total Luminaire Optical Efficiency = 89.0%

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	85	85	85	85	72	72	72	72	49	49	49	28	28	28	9	9	9	9	9	9	0
1	77	73	70	67	66	63	60	58	43	41	40	24	24	23	7	7	7	7	7	7	0
2	70	64	59	55	59	55	51	47	37	35	33	21	20	19	6	6	6	6	6	6	0
3	64	56	50	45	54	48	43	39	33	30	27	19	17	16	6	5	5	5	5	5	0
4	58	49	43	38	49	42	37	33	29	26	23	16	15	13	5	4	4	4	4	4	0
5	53	43	37	32	45	37	32	28	26	22	19	15	13	11	4	4	3	4	4	3	0
6	48	39	32	27	41	33	28	24	23	19	17	13	11	10	4	3	3	4	3	3	0
7	45	35	28	24	38	30	24	20	20	17	14	12	10	8	3	3	2	3	3	2	0
8	41	31	25	20	35	27	21	18	18	15	12	10	9	7	3	2	2	3	2	2	0
9	38	28	22	18	32	24	19	15	17	13	11	9	8	6	3	2	2	3	2	2	0
10	35	25	19	16	30	22	17	14	15	12	9	9	7	5	2	2	1	2	2	1	0