Tue Apr 24 13:11:12 2012

IESNA:LM-63-1995
Photopia 2.0.0.17 PHOTOMETRIC REPORT
PROJECT: ecs-nci4-mn-132-unv-11n-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 500066 initial lamp rays.
  Photometric test distance of 20.00 feet.

LUMENS EXITING SYSTEM:

Lumens(%)	Reflection
1179(40.7%)	0
1109(38.3%)	1
408(14.1%)	2
48(1.7%)	3
11(0.4%)	4
3(0.1%)	5
2761(95.2%)	Total

LUMEN INTERACTION WITH SYSTEM:

Absorbed(%)	Incident(%)	Layer Name
3(0.1%)	44(1.5%)	LAMP-FO32311
0(0.0%)	2(0.1%)	LAMP-FO32312
130(4.5%)	2293(79.1%)	Refl-Poly1
133(4.6%)	2340(80.7%)	Total

Absorbed(%)	Incident(%)	Material Name
3(0.1%)	47(1.6%)	PHOSGLAS
130(4.5%)	2293(79.1%)	ALMIRO04
133(4.6%)	2340(80.7%)	Total

UNACCOUNTED LUMENS:

reached interreflection limit:	4.84 (	0.2%)
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%)

Number of Lamps: 1 Lumens per Lamp: 2900
Ballast Factor: 1.00 Ballast-Lamp Photometric Factor: 1.00
Luminaire Width: 0.5492 Length: 4.0000 Height: 0.1721
Photometry Type: C Units: feet

Candela Distribution:

	0.00	22.50	45.00	67.50	90.00
0.00	705	705	705	705	705
5.00	686	690	605	588	602
10.00	666	623	603	666	678
15.00	650	577	663	745	768
20.00	612	590	729	674	651
25.00	574	620	672	709	766
30.00	545	606	652	784	775
35.00	503	586	690	736	782
40.00	471	556	670	793	839
45.00	424	525	674	843	905
50.00	379	497	678	820	798
55.00	340	461	686	635	580
60.00	279	423	560	520	538
65.00	227	391	425	473	480
70.00	181	308	360	401	409
75.00	137	232	284	301	302
80.00	100	154	180	181	182
85.00	49.2	68.6	81.9	90.6	85.7
90.00	10.7	12.5	14.5	17.1	16.7

Zonal Lumens

Cone	Between	Lumens
0.0	0.0- 2.5	4.21
5.0	2.5- 7.5	30.18
10.0	7.5- 12.5	61.02
15.0	12.5- 17.5	95.56
20.0	17.5- 22.5	123.00
25.0	22.5- 27.5	154.71
30.0	27.5- 32.5	185.12
35.0	32.5- 37.5	208.63
40.0	37.5- 42.5	235.57
45.0	42.5- 47.5	262.28
50.0	47.5- 52.5	271.18
55.0	52.5- 57.5	251.74
60.0	57.5- 62.5	226.86
65.0	62.5- 67.5	204.01
70.0	67.5- 72.5	175.62
75.0	72.5- 77.5	137.09
80.0	77.5- 82.5	88.68
85.0	82.5- 87.5	42.12
90.0	87.5- 92.5	7.92

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fixt
0- 30	558	19.2	20.2
0- 40	977	33.7	35.3
0- 60	1995	68.8	72.1
0- 90	2762	95.2	99.9
90-120	4	0.1	0.1
90-130	4	0.1	0.1
90-150	4	0.1	0.1
90-180	4	0.1	0.1
0-180	2766	95.4	100.0

Total Luminaire Optical Efficiency = 95.4%

Luminaire Spacing Criterion:

0 deg	90 deg
1.15	1.81

Average Luminaire Luminance (cd/m^2):

	0	45	90
0	3452.74	3452.74	3452.74
45	2818.43	3727.73	4774.61
50	2745.76	3975.21	4427.94
55	2738.96	4311.82	3424.52
60	2541.51	3821.52	3416.37
65	2408.70	3200.00	3329.78
70	2320.75	3043.76	3151.04
75	2236.12	2767.62	2638.17
80	2273.28	2092.13	1854.27
85	1852.34	1187.22	1051.39

Coefficients of Utilization - Zonal Cavity Method:

pfc = 0.20

pcc	.8				.7				.5		
pw	.7	.5	.3	.1	.7	.5	.3	.1	.5	.3	.1
RCR											
0	113	113	113	113	111	111	111	111	106	106	106
1	102	97	92	88	99	95	90	87	90	87	84
2	92	83	76	69	89	81	74	69	77	72	67
3	83	72	63	56	80	70	62	56	67	60	55
4	75	62	53	46	73	61	53	46	59	51	45
5	68	55	46	39	66	54	45	39	52	44	38
6	63	49	40	33	61	48	40	33	46	39	33
7	58	44	35	29	56	43	35	29	42	34	29
8	54	40	31	25	52	39	31	25	38	30	25
9	50	36	28	22	49	36	28	22	35	27	22
10	47	33	25	20	45	33	25	20	32	25	20

pcc	.3			.1			0
pw	.5	.3	.1	.5	.3	.1	0
RCR							
0	101	101	101	97	97	97	95
1	87	84	81	83	81	79	77
2	74	69	65	71	67	64	62
3	64	58	54	62	57	53	50
4	56	50	45	54	49	44	42
5	50	43	38	48	42	37	35
6	45	38	33	43	37	32	30
7	40	33	28	39	33	28	26
8	37	30	25	36	29	25	23
9	34	27	22	33	26	22	20
10	31	24	20	30	24	20	18