

Photometric Report - (ecs-exu2-wn-424-unv-22h-p0w) - Page 1 of 4

Fri Apr 27 18:49:09 2012

IESNA:LM-63-1995

Photopia 2.0.0.17 PHOTOMETRIC REPORT

PROJECT: ecs-exu2-wn-424-unv-22h-p0w

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 499456 initial lamp rays.
Photometric test distance of 20.00 feet.

LUMENS EXITING SYSTEM:

Lumens(%)	Reflection
0(0.0%)	0
2521(31.5%)	1
1581(19.8%)	2
634(7.9%)	3
538(6.7%)	4
288(3.6%)	5
5564(69.6%)	Total

LUMEN INTERACTION WITH SYSTEM:

Absorbed(%)	Incident(%)	Layer Name
291(3.6%)	4446(55.6%)	LAMP-F24T5H01
27(0.3%)	429(5.4%)	LAMP-F24T5H02
1033(12.9%)	7378(92.2%)	Refl-Poly1
52(0.7%)	378(4.7%)	Refl-Poly2
6(0.1%)	6652(83.2%)	Tran-Lens1
1411(17.6%)	19285(241.1%)	Total

Absorbed(%)	Incident(%)	Material Name
319(4.0%)	4876(61.0%)	PHOSGLAS
1085(13.6%)	7756(97.0%)	PAINT001
6(0.1%)	6652(83.2%)	POLYCRB1
1411(17.6%)	19285(241.1%)	Total

UNACCOUNTED LUMENS:

reached interreflection limit: 1024.03 (12.8%)
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: 4 Lumens per Lamp: 2000
Ballast Factor: 1.00 Ballast-Lamp Photometric Factor: 1.00
Luminaire Width: 0.7070 Length: 2.0000 Height: 0.1932
Photometry Type: C Units: feet

Candela Distribution:

	0.00	22.50	45.00	67.50	90.00
0.00	1715	1715	1715	1715	1715
5.00	1796	1860	1865	1805	1799
10.00	1893	1882	1872	1871	1936
15.00	1865	1803	1765	1812	1780
20.00	1692	1775	1803	1769	1843
25.00	1760	1731	1725	1776	1765
30.00	1621	1675	1681	1696	1672
35.00	1548	1578	1593	1607	1625
40.00	1421	1503	1535	1525	1515
45.00	1294	1367	1401	1395	1419
50.00	1205	1240	1276	1280	1263
55.00	993	1080	1089	1090	1110
60.00	840	898	920	902	931
65.00	618	711	731	736	760
70.00	438	490	529	512	481
75.00	230	297	309	264	245
80.00	106	135	112	88.1	73.8
85.00	24.1	26.4	18.9	18.4	14.2
90.00	0.320	2.31	1.16	1.80	3.16

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Zonal Lumens		
Cone	Between	Lumens
0.0	0.0- 2.5	10.26
5.0	2.5- 7.5	87.51
10.0	7.5- 12.5	179.39
15.0	12.5- 17.5	255.46
20.0	17.5- 22.5	333.43
25.0	22.5- 27.5	405.10
30.0	27.5- 32.5	459.05
35.0	32.5- 37.5	500.28
40.0	37.5- 42.5	531.22
45.0	42.5- 47.5	534.83
50.0	47.5- 52.5	527.94
55.0	52.5- 57.5	483.90
60.0	57.5- 62.5	427.93
65.0	62.5- 67.5	356.07
70.0	67.5- 72.5	256.25
75.0	72.5- 77.5	146.64
80.0	77.5- 82.5	57.32
85.0	82.5- 87.5	11.31
90.0	87.5- 92.5	0.96

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fixt
0- 30	1492	18.7	26.8
0- 40	2489	31.1	44.7
0- 60	4520	56.5	81.2
0- 90	5564	69.6	100.0
90-120	0	0.0	0.0
90-130	0	0.0	0.0
90-150	0	0.0	0.0
90-180	0	0.0	0.0
0-180	5565	69.6	100.0

Total Luminaire Optical Efficiency = 69.6%

Luminaire Spacing Criterion:

0 deg	90 deg
1.39	1.44

Average Luminaire Luminance (cd/m²):

	0	45	90
0	13057.82	13057.82	13057.82
45	12701.64	11954.90	11996.54
50	12794.37	11518.41	11287.87
55	11578.65	10526.98	10594.89
60	10955.79	9639.59	9623.54
65	9218.25	8439.44	8631.44
70	7712.48	6846.77	6119.74
75	4969.53	4592.33	3568.17
80	3003.25	1975.20	1269.03
85	998.86	414.75	300.84

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	82	82	82	82	80	80	80	80	77	77	77	73	73	73	70	70	70	69			
1	76	72	70	67	74	71	68	66	68	66	64	65	64	62	63	61	60	59			
2	69	63	59	55	67	62	58	54	59	56	53	57	54	52	55	53	50	49			
3	63	55	50	45	61	54	49	45	52	48	44	50	47	43	49	45	43	41			
4	57	49	43	38	56	48	42	38	46	41	37	45	40	37	43	39	36	35			
5	52	44	37	33	51	43	37	33	41	36	32	40	35	32	39	35	31	30			
6	48	39	33	28	47	38	33	28	37	32	28	36	31	28	35	31	27	26			
7	45	35	29	25	43	35	29	25	34	28	25	33	28	24	32	27	24	23			
8	42	32	26	22	40	32	26	22	31	26	22	30	25	22	29	25	22	20			
9	39	29	24	20	38	29	23	20	28	23	20	27	23	19	27	22	19	18			
10	36	27	21	18	35	27	21	18	26	21	18	25	21	18	25	20	17	16			