

Photometric Report - (ecs-umx4-wn-632-unv-23n) - Page 1 of 4

Fri Apr 27 17:14:55 2012

IESNA:LM-63-1995

Photopia 2.0.0.17 PHOTOMETRIC REPORT

PROJECT: ecs-umx4-wn-632-unv-23n

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
7744(44.5%)	0
4218(24.2%)	1
1158(6.7%)	2
946(5.4%)	3
420(2.4%)	4
298(1.7%)	5
14787(85.0%)	Total

LUMEN INTERACTION WITH SYSTEM:

Absorbed(%)	Incident(%)	Layer Name
334(1.9%)	5100(29.3%)	LAMP-F032311
16(0.1%)	257(1.5%)	LAMP-F032312
1450(8.3%)	14505(83.4%)	Refl-Poly1
1802(10.4%)	19862(114.2%)	Total

Absorbed(%)	Incident(%)	Material Name
351(2.0%)	5357(30.8%)	PHOSGLAS
1450(8.3%)	14505(83.4%)	AMWHITE0
1802(10.4%)	19862(114.2%)	Total

UNACCOUNTED LUMENS:

reached interreflection limit: 767.05 (4.4%)
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): 43.63 (0.3%)

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Number of Lamps: 6 Lumens per Lamp: 2900
Ballast Factor: 1.00 Ballast-Lamp Photometric Factor: 1.00
Luminaire Width: 1.9583 Length: 4.0000 Height: 0.1292
Photometry Type: C Units: feet

Candela Distribution:

	0.00	22.50	45.00	67.50	90.00
0.00	4248	4248	4248	4248	4248
5.00	4439	4387	4194	4167	4322
10.00	4224	4160	4122	4238	4310
15.00	4261	4145	4174	4206	4368
20.00	4026	4018	4069	4120	4234
25.00	3873	3833	3958	4010	4029
30.00	3625	3722	3774	3869	4001
35.00	3363	3485	3670	3753	3918
40.00	3172	3269	3542	3670	3754
45.00	2889	3023	3295	3499	3550
50.00	2576	2710	3019	3294	3408
55.00	2246	2486	2788	3011	3031
60.00	1964	2164	2531	2704	2777
65.00	1618	1849	2165	2429	2486
70.00	1296	1528	1871	2060	2113
75.00	981	1231	1469	1580	1604
80.00	639	859	1012	1080	1110
85.00	336	468	532	593	619
90.00	150	171	169	168	199

Zonal Lumens

Cone	Between	Lumens
0.0	0.0- 2.5	25.40
5.0	2.5- 7.5	204.57
10.0	7.5- 12.5	399.46
15.0	12.5- 17.5	597.24
20.0	17.5- 22.5	765.69
25.0	22.5- 27.5	912.21
30.0	27.5- 32.5	1039.97
35.0	32.5- 37.5	1143.57
40.0	37.5- 42.5	1228.21
45.0	42.5- 47.5	1263.18
50.0	47.5- 52.5	1261.28
55.0	52.5- 57.5	1226.19
60.0	57.5- 62.5	1159.47
65.0	62.5- 67.5	1055.08
70.0	67.5- 72.5	922.48
75.0	72.5- 77.5	737.60
80.0	77.5- 82.5	516.37
85.0	82.5- 87.5	282.62
90.0	87.5- 92.5	93.45

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fixt
0- 30	3405	19.6	23.0
0- 40	5686	32.7	38.3
0- 60	10639	61.1	71.7
0- 90	14787	85.0	99.7
90-120	47	0.3	0.3
90-130	47	0.3	0.3
90-150	47	0.3	0.3
90-180	47	0.3	0.3
0-180	14834	85.3	100.0

Total Luminaire Optical Efficiency = 85.3%

Luminaire Spacing Criterion:

0 deg	90 deg
1.26	1.42

Average Luminaire Luminance (cd/m²):

	0	45	90
0	5837.42	5837.42	5837.42
45	5439.05	5986.59	6471.65
50	5301.84	5959.38	6755.06
55	5143.14	6075.68	6635.50
60	5111.00	6209.61	6848.53
65	4921.37	6127.42	7080.48
70	4783.43	6312.00	7187.93
75	4649.39	6191.26	6835.16
80	4274.70	5744.92	6392.39
85	3868.35	4676.77	5560.15

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	101	101	101	101	99	99	99	99	94	94	94	
1	91	86	82	78	88	84	80	77	81	77	74	
2	82	74	68	62	79	72	66	61	69	64	60	
3	74	64	57	51	72	63	56	50	60	54	49	
4	67	56	48	42	65	55	48	42	53	46	41	
5	62	50	42	36	60	49	41	36	47	40	35	
6	57	45	37	31	55	44	36	31	42	36	30	
7	53	40	33	27	51	40	32	27	38	32	27	
8	49	37	29	24	47	36	29	24	35	28	24	
9	45	34	26	21	44	33	26	21	32	26	21	
10	43	31	24	19	41	30	24	19	30	23	19	

pcc	.3			.1			0
pw	.5	.3	.1	.5	.3	.1	0
RCR							
0	90	90	90	86	86	86	85
1	77	75	72	74	72	70	68
2	66	62	58	64	60	57	55
3	58	53	48	56	51	47	45
4	51	45	41	49	44	40	38
5	45	39	35	44	39	34	32
6	41	35	30	39	34	30	28
7	37	31	26	36	30	26	24
8	34	28	24	33	27	23	22
9	31	25	21	30	25	21	19
10	29	23	19	28	23	19	17