

Photometric Report - (ecs-wui4-mn-632-unv-23n) - Page 1 of 4

Fri Apr 27 16:28:01 2012

IESNA:LM-63-1995

Photopia 2.0.0.17 PHOTOMETRIC REPORT

PROJECT: ecs-wui4-mn-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
7337(42.2%)	0
5768(33.2%)	1
864(5.0%)	2
1036(6.0%)	3
294(1.7%)	4
289(1.7%)	5
15591(89.6%)	Total

LUMEN INTERACTION WITH SYSTEM:

Absorbed(%)	Incident(%)	Layer Name
425(2.4%)	6524(37.5%)	LAMP-F032311
21(0.1%)	328(1.9%)	LAMP-F032312
662(3.8%)	11739(67.5%)	Refl-Poly1
1109(6.4%)	18593(106.9%)	Total

Absorbed(%)	Incident(%)	Material Name
446(2.6%)	6853(39.4%)	PHOSGLAS
662(3.8%)	11739(67.5%)	ALMIRO04
1109(6.4%)	18593(106.9%)	Total

UNACCOUNTED LUMENS:

reached interreflection limit: 639.85 (3.7%)
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): 59.71 (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: 1.9300 Length: 4.0000 Height: 0.2410
Photometry Type: C Units: feet

Candela Distribution:

	0.00	22.50	45.00	67.50	90.00
0.00	7106	7106	7106	7106	7106
5.00	6876	6928	7002	6832	7234
10.00	6929	6783	6689	6654	6453
15.00	6940	6799	6474	6199	6095
20.00	6638	6529	5887	5477	5132
25.00	6259	6098	5285	4675	4584
30.00	5963	5561	4622	3976	3771
35.00	5522	5015	3956	3398	3286
40.00	5173	4368	3309	3037	2947
45.00	4706	3771	2838	2575	2547
50.00	4168	3114	2426	2278	2497
55.00	3560	2573	2026	2352	2545
60.00	2921	2004	1903	2257	2309
65.00	2366	1523	1825	1951	1998
70.00	1740	1216	1513	1601	1627
75.00	1189	948	1181	1154	1127
80.00	670	701	711	603	586
85.00	307	336	242	175	153
90.00	140	105	49.2	16.1	0.000

Zonal Lumens

Cone	Between	Lumens
0.0	0.0- 2.5	42.49
5.0	2.5- 7.5	332.23
10.0	7.5- 12.5	638.12
15.0	12.5- 17.5	921.79
20.0	17.5- 22.5	1114.45
25.0	22.5- 27.5	1243.98
30.0	27.5- 32.5	1303.64
35.0	32.5- 37.5	1318.35
40.0	37.5- 42.5	1301.27
45.0	42.5- 47.5	1241.39
50.0	47.5- 52.5	1170.45
55.0	52.5- 57.5	1122.96
60.0	57.5- 62.5	1041.85
65.0	62.5- 67.5	928.96
70.0	67.5- 72.5	774.30
75.0	72.5- 77.5	587.70
80.0	77.5- 82.5	356.61
85.0	82.5- 87.5	134.15
90.0	87.5- 92.5	32.91

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fixt
0- 30	4920	28.3	31.5
0- 40	7549	43.4	48.4
0- 60	12265	70.5	78.6
0- 90	15591	89.6	99.9
90-120	16	0.1	0.1
90-130	16	0.1	0.1
90-150	16	0.1	0.1
90-180	16	0.1	0.1
0-180	15608	89.7	100.0

Total Luminaire Optical Efficiency = 89.7%

Luminaire Spacing Criterion:

0 deg	90 deg
1.24	0.89

Average Luminaire Luminance (cd/m²):

	0	45	90
0	9907.51	9907.51	9907.51
45	8752.15	4948.88	4465.42
50	8435.79	4551.50	4715.39
55	7968.67	4149.54	5250.85
60	7374.65	4326.32	5294.50
65	6913.05	4700.34	5198.25
70	6086.58	4536.48	4939.70
75	5228.82	4272.81	4140.39
80	4011.68	3274.62	2752.82
85	2905.32	1550.31	1007.87

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	107	107	107	107	104	104	104	104	99	99	99
1	97	93	89	86	95	91	88	85	87	85	82
2	89	81	75	70	86	80	74	70	77	72	68
3	81	72	65	59	79	70	64	58	68	62	57
4	75	64	56	50	72	63	56	50	61	54	49
5	69	57	49	44	67	56	49	43	55	48	43
6	64	52	44	38	62	51	44	38	49	43	38
7	59	47	40	34	58	47	39	34	45	39	34
8	55	43	36	31	54	43	36	31	42	35	30
9	52	40	33	28	51	39	33	28	38	32	28
10	49	37	30	25	48	37	30	25	36	30	25

pcc	.3			.1			0
pw	.5	.3	.1	.5	.3	.1	0
RCR							
0	95	95	95	91	91	91	89
1	84	82	79	81	79	77	75
2	74	70	66	71	68	65	63
3	65	60	56	63	59	55	53
4	58	53	49	56	52	48	46
5	53	47	42	51	46	42	40
6	48	42	38	47	41	37	35
7	44	38	34	43	37	33	32
8	40	35	30	39	34	30	28
9	37	32	28	37	31	27	26
10	35	29	25	34	29	25	24