

Photometric Report - (ecs-aur4-mn-454-unv-22h-00w) - Page 1 of 4

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IESNA:LM-63-1995

Photopia 2.0.0.17 PHOTOMETRIC REPORT

PROJECT: ecs-aur4-mn-454-unv-22h-00w

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
6910(34.6%)	0
9240(46.2%)	1
1149(5.7%)	2
901(4.5%)	3
157(0.8%)	4
205(1.0%)	5
18565(92.8%)	Total

LUMEN INTERACTION WITH SYSTEM:

Absorbed(%)	Incident(%)	Layer Name
207(1.0%)	3164(15.8%)	LAMP-F54T5H01
7(0.0%)	111(0.6%)	LAMP-F54T5H02
896(4.5%)	16016(80.1%)	Refl-Poly1
1111(5.6%)	19292(96.5%)	Total

Absorbed(%)	Incident(%)	Material Name
214(1.1%)	3275(16.4%)	PHOSGLAS
896(4.5%)	16016(80.1%)	ALMIRO04
1111(5.6%)	19292(96.5%)	Total

UNACCOUNTED LUMENS:

reached interreflection limit: 323.17 (1.6%)
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: 5000
Ballast Factor: 1.00 Ballast-Lamp Photometric Factor: 1.00
Luminaire Width: 1.9257 Length: 4.0000 Height: 0.2057
Photometry Type: C Units: feet

Candela Distribution:

	0.00	22.50	45.00	67.50	90.00
0.00	5449	5449	5449	5449	5449
5.00	5646	5847	5610	5733	5923
10.00	5767	5718	5795	5814	5712
15.00	5616	5653	5611	5583	5406
20.00	5516	5399	5450	5480	5563
25.00	5187	5284	5325	5230	5219
30.00	4857	4918	5022	5313	5709
35.00	4593	4694	4946	5949	6668
40.00	4262	4359	5130	7051	8024
45.00	3923	3977	5844	7516	7601
50.00	3360	3766	6223	6493	5996
55.00	3023	3714	5700	4144	3429
60.00	2460	3723	4078	2277	1762
65.00	1947	3328	2141	796	479
70.00	1521	2395	710	55.8	1.24
75.00	1227	1217	65.1	0.000	0.000
80.00	896	307	0.000	0.000	0.000
85.00	318	10.9	0.000	0.000	0.000
90.00	8.15	0.000	0.000	0.000	0.000

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Zonal Lumens		
Cone	Between	Lumens
0.0	0.0- 2.5	32.59
5.0	2.5- 7.5	274.39
10.0	7.5- 12.5	548.89
15.0	12.5- 17.5	792.98
20.0	17.5- 22.5	1024.91
25.0	22.5- 27.5	1218.63
30.0	27.5- 32.5	1407.09
35.0	32.5- 37.5	1667.84
40.0	37.5- 42.5	1998.01
45.0	42.5- 47.5	2238.27
50.0	47.5- 52.5	2221.26
55.0	52.5- 57.5	1884.06
60.0	57.5- 62.5	1446.50
65.0	62.5- 67.5	928.70
70.0	67.5- 72.5	505.13
75.0	72.5- 77.5	250.93
80.0	77.5- 82.5	101.89
85.0	82.5- 87.5	23.17
90.0	87.5- 92.5	0.56

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fixt
0- 30	4569	22.8	24.6
0- 40	7940	39.7	42.8
0- 60	16023	80.1	86.3
0- 90	18565	92.8	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	18566	92.8	100.0

Total Luminaire Optical Efficiency = 92.8%

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Luminaire Spacing Criterion:

0 deg	90 deg
1.31	1.98

Average Luminaire Luminance (cd/m²):

	0	45	90
0	7614.48	7614.48	7614.48
45	7374.15	10387.32	13572.07
50	6883.42	11937.16	11564.22
55	6861.27	11973.07	7248.36
60	6312.56	9547.30	4156.36
65	5799.73	5708.28	1289.73
70	5446.13	2220.21	3.92
75	5560.24	247.92	0.00
80	5579.82	0.00	0.00
85	3208.30	0.00	0.00

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	110	110	110	110	107	107	107	107	103	103	103
1	101	98	94	91	99	95	92	89	92	89	86
2	93	85	80	75	90	84	78	74	81	76	72
3	84	75	68	62	82	74	67	61	71	65	60
4	77	66	58	52	75	65	58	52	63	56	51
5	71	59	51	45	69	58	50	44	56	49	44
6	65	53	44	38	63	52	44	38	50	43	38
7	60	47	39	33	58	47	39	33	45	38	33
8	55	43	35	29	54	42	35	29	41	34	29
9	52	39	31	26	50	38	31	26	37	31	26
10	48	36	28	23	47	35	28	23	34	28	23

pcc	.3			.1			0
pw	.5	.3	.1	.5	.3	.1	0
RCR							
0	98	98	98	94	94	94	92
1	88	86	84	85	83	81	79
2	78	74	70	75	72	69	67
3	68	63	59	66	62	58	56
4	61	55	50	59	54	50	48
5	54	48	43	52	47	43	41
6	48	42	38	47	41	37	35
7	44	38	33	43	37	33	31
8	40	34	29	39	33	29	27
9	36	30	26	35	30	26	24
10	33	27	23	33	27	23	21