

Photometric Report - (ecs-rgt4-wn-354-unv-22h-prs) - Page 1 of 4

Sat Jul 18 15:00:07 2009

IESNA:LM-63-1995

Photopia 2.0.0.17 PHOTOMETRIC REPORT

PROJECT: ecs-rgt4-wn-354-unv-22h-prs

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 499884 initial lamp rays.

Photometric test distance of 20.00 feet.

LUMENS EXITING SYSTEM:

Lumens(%)	Reflection
4111(27.4%)	0
5284(35.2%)	1
2140(14.3%)	2
815(5.4%)	3
443(3.0%)	4
201(1.3%)	5
12996(86.6%)	Total

LUMEN INTERACTION WITH SYSTEM:

Absorbed(%)	Incident(%)	Layer Name
141(0.9%)	2156(14.4%)	LAMP-F54T5H01
5(0.0%)	81(0.5%)	LAMP-F54T5H02
993(6.6%)	11584(77.2%)	Refl-Poly1
41(0.3%)	418(2.8%)	Refl-Poly2
434(2.9%)	5249(35.0%)	Tran-Lens1
1616(10.8%)	19490(129.9%)	Total

Absorbed(%)	Incident(%)	Material Name
146(1.0%)	2238(14.9%)	PHOSGLAS
993(6.6%)	11584(77.2%)	ANOWHT01
41(0.3%)	418(2.8%)	PAINT006
434(2.9%)	5249(35.0%)	PRISM001
1616(10.8%)	19490(129.9%)	Total

UNACCOUNTED LUMENS:

reached interreflection limit:	387.57 (2.6%)
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: 3 Lumens per Lamp: 5000
Ballast Factor: 1.00 Ballast-Lamp Photometric Factor: 1.00
Luminaire Width: 1.8177 Length: 4.0000 Height: 0.2606
Photometry Type: C Units: feet

Candela Distribution:

	0.00	22.50	45.00	67.50	90.00
0.00	4015	4015	4015	4015	4015
5.00	3940	3977	4063	4234	4088
10.00	4100	3949	4014	4030	4262
15.00	3897	3918	3971	3972	3985
20.00	3780	3879	3898	3878	3863
25.00	3669	3698	3813	3825	3840
30.00	3503	3524	3658	3856	3732
35.00	3351	3449	3525	3596	3559
40.00	3178	3245	3470	3460	3463
45.00	2933	3064	3181	3130	3140
50.00	2758	2814	2792	2701	2677
55.00	2443	2481	2411	2388	2351
60.00	2044	2065	1951	2054	2062
65.00	1718	1616	1598	1764	1821
70.00	1295	1251	1384	1516	1447
75.00	877	914	1025	1008	1044
80.00	491	571	652	817	812
85.00	161	219	209	131	92.2
90.00	29.5	15.8	16.0	11.5	13.4

Zonal Lumens		
Cone	Between	Lumens
0.0	0.0- 2.5	24.01
5.0	2.5- 7.5	194.53
10.0	7.5- 12.5	384.88
15.0	12.5- 17.5	560.49
20.0	17.5- 22.5	725.33
25.0	22.5- 27.5	873.96
30.0	27.5- 32.5	1004.17
35.0	32.5- 37.5	1102.27
40.0	37.5- 42.5	1188.77
45.0	42.5- 47.5	1202.60
50.0	47.5- 52.5	1157.24
55.0	52.5- 57.5	1086.29
60.0	57.5- 62.5	964.08
65.0	62.5- 67.5	838.08
70.0	67.5- 72.5	711.13
75.0	72.5- 77.5	517.23
80.0	77.5- 82.5	363.08
85.0	82.5- 87.5	93.65
90.0	87.5- 92.5	8.87

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fixt
0- 30	3246	21.6	25.0
0- 40	5449	36.3	41.9
0- 60	9981	66.5	76.8
0- 90	12996	86.6	100.0
90-120	4	0.0	0.0
90-130	4	0.0	0.0
90-150	4	0.0	0.0
90-180	4	0.0	0.0
0-180	13001	86.7	100.0

Total Luminaire Optical Efficiency = 86.7%

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Luminaire Spacing Criterion:

0 deg	90 deg
1.30	1.37

Average Luminaire Luminance (cd/m²):

	0	45	90
0	5944.75	5944.75	5944.75
45	5764.71	5803.89	5750.35
50	5893.39	5469.59	5266.11
55	5768.40	5140.86	5036.99
60	5439.26	4602.04	4891.44
65	5281.00	4253.57	4878.46
70	4755.18	4261.94	4493.30
75	4035.05	3780.91	3889.66
80	3054.54	3024.85	3817.53
85	1565.60	1321.91	593.22

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	102	102	102	102	100	100	100	100	95	95	95
	1	93	89	85	82	91	87	83	80	83	80	78
	2	84	77	71	66	82	75	70	65	72	68	63
	3	77	67	60	54	74	66	59	54	63	57	53
	4	70	59	51	45	68	58	51	45	56	50	45
	5	64	53	45	39	62	52	44	39	50	43	38
	6	59	47	39	34	57	46	39	33	45	38	33
	7	55	43	35	30	53	42	35	29	41	34	29
	8	51	39	31	26	49	38	31	26	37	31	26
	9	47	35	28	23	46	35	28	23	34	28	23
	10	44	33	26	21	43	32	25	21	31	25	21

pcc	.3			.1			0
pw	.5	.3	.1	.5	.3	.1	0
RCR	0	91	91	91	87	87	87
	1	80	77	75	77	75	73
	2	69	65	62	67	64	61
	3	61	56	52	59	54	51
	4	54	48	44	52	47	43
	5	48	42	38	46	41	37
	6	43	37	33	42	37	33
	7	39	33	29	38	33	29
	8	36	30	26	35	30	26
	9	33	27	23	32	27	23
	10	30	25	21	30	24	21