

Photometric Report - (ecs-rgt4-wn-332-unv-13n-prs) - Page 1 of 4

Sat Jul 18 14:28:10 2009

IESNA:LM-63-1995

Photopia 2.0.0.17 PHOTOMETRIC REPORT

PROJECT: ecs-rgt4-wn-332-unv-13n-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
2394(27.5%)	0
2795(32.1%)	1
1141(13.1%)	2
522(6.0%)	3
302(3.5%)	4
158(1.8%)	5
7314(84.1%)	Total

LUMEN INTERACTION WITH SYSTEM:

Absorbed(%)	Incident(%)	Layer Name
138(1.6%)	2109(24.2%)	LAMP-FO32311
7(0.1%)	115(1.3%)	LAMP-FO32312
595(6.8%)	6960(80.0%)	Refl-Poly1
27(0.3%)	272(3.1%)	Refl-Poly2
241(2.8%)	2920(33.6%)	Tran-Lens1
1010(11.6%)	12378(142.3%)	Total

Absorbed(%)	Incident(%)	Material Name
145(1.7%)	2225(25.6%)	PHOSGLAS
595(6.8%)	6960(80.0%)	ANOWHT01
27(0.3%)	272(3.1%)	PAINT006
241(2.8%)	2920(33.6%)	PRISM001
1010(11.6%)	12378(142.3%)	Total

UNACCOUNTED LUMENS:

reached interreflection limit:	375.03 (4.3%)
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: 2900
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	2309	2309	2309	2309	2309
5.00	2351	2338	2237	2264	2242
10.00	2327	2226	2294	2290	2282
15.00	2213	2157	2249	2232	2212
20.00	2181	2131	2168	2140	2117
25.00	2062	2117	2129	2113	2122
30.00	2036	1989	2020	2158	2185
35.00	1885	1923	2005	2069	2039
40.00	1764	1811	1952	1946	1990
45.00	1607	1701	1773	1730	1772
50.00	1499	1582	1612	1553	1543
55.00	1354	1382	1373	1355	1341
60.00	1177	1169	1140	1150	1133
65.00	936	928	908	995	1040
70.00	738	718	753	804	803
75.00	512	520	574	585	603
80.00	287	328	370	432	438
85.00	108	132	115	78.5	59.3
90.00	10.0	10.9	9.19	7.26	5.30

Zonal Lumens		
Cone	Between	Lumens
0.0	0.0- 2.5	13.81
5.0	2.5- 7.5	109.11
10.0	7.5- 12.5	216.89
15.0	12.5- 17.5	313.89
20.0	17.5- 22.5	402.51
25.0	22.5- 27.5	489.40
30.0	27.5- 32.5	567.14
35.0	32.5- 37.5	625.51
40.0	37.5- 42.5	668.19
45.0	42.5- 47.5	668.00
50.0	47.5- 52.5	658.05
55.0	52.5- 57.5	612.64
60.0	57.5- 62.5	547.62
65.0	62.5- 67.5	474.35
70.0	67.5- 72.5	392.18
75.0	72.5- 77.5	296.03
80.0	77.5- 82.5	201.37
85.0	82.5- 87.5	55.85
90.0	87.5- 92.5	4.79

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fixt
0- 30	1818	20.9	24.9
0- 40	3064	35.2	41.9
0- 60	5616	64.5	76.7
0- 90	7315	84.1	100.0
90-120	2	0.0	0.0
90-130	2	0.0	0.0
90-150	2	0.0	0.0
90-180	2	0.0	0.0
0-180	7317	84.1	100.0

Total Luminaire Optical Efficiency = 84.1%

Luminaire Spacing Criterion:

0 deg	90 deg
1.29	1.37

Average Luminaire Luminance (cd/m²):

	0	45	90
0	3418.89	3418.89	3418.89
45	3159.30	3235.18	3244.35
50	3204.08	3158.16	3035.32
55	3197.94	2928.33	2873.37
60	3132.00	2688.05	2688.29
65	2878.35	2415.91	2786.31
70	2709.55	2320.91	2494.11
75	2354.65	2118.80	2245.32
80	1786.70	1717.01	2058.45
85	1050.09	729.30	381.39

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	99	99	99	99	97	97	97	97	93	93	93	89	89	89	85	85	85	83			
1	90	86	83	79	88	84	81	78	81	78	75	77	75	73	74	73	71	69			
2	82	75	69	64	80	73	68	63	70	65	62	67	63	60	65	62	59	57			
3	74	65	58	52	72	64	57	52	61	56	51	59	54	50	57	53	49	47			
4	68	57	50	44	66	56	49	44	54	48	43	52	47	42	50	46	42	40			
5	62	51	43	38	60	50	43	37	48	42	37	47	41	37	45	40	36	34			
6	57	46	38	33	56	45	38	32	43	37	32	42	36	32	41	36	32	30			
7	53	41	34	29	51	41	33	28	39	33	28	38	32	28	37	32	28	26			
8	49	38	30	25	48	37	30	25	36	30	25	35	29	25	34	29	25	23			
9	46	34	27	23	45	34	27	23	33	27	22	32	26	22	31	26	22	21			
10	43	32	25	20	42	31	25	20	30	24	20	30	24	20	29	24	20	19			