

Photometric Report - (ecs-wbw4-wn-132-unv-11n) - Page 1 of 4

Thu Jul 16 05:50:01 2009

IESNA:LM-63-1995

Photopia 2.0.0.17 PHOTOMETRIC REPORT

PROJECT: ecs-wbw4-wn-132-unv-11n

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 500066 initial lamp rays.
Photometric test distance of 20.00 feet.

LUMENS EXITING SYSTEM:

Lumens(%)	Reflection
933(32.2%)	0
948(32.7%)	1
331(11.4%)	2
152(5.3%)	3
77(2.7%)	4
33(1.2%)	5
2476(85.4%)	Total

LUMEN INTERACTION WITH SYSTEM:

Absorbed(%)	Incident(%)	Layer Name
30(1.0%)	463(16.0%)	LAMP-FO32311
1(0.0%)	20(0.7%)	LAMP-FO32312
167(5.8%)	1959(67.6%)	Refl-Poly1
82(2.8%)	1004(34.6%)	Tran-Lens1
282(9.7%)	3447(118.9%)	Total

Absorbed(%)	Incident(%)	Material Name
31(1.1%)	484(16.7%)	PHOSGLAS
167(5.8%)	1959(67.6%)	ANOWHT01
82(2.8%)	1004(34.6%)	PRISM001
282(9.7%)	3447(118.9%)	Total

UNACCOUNTED LUMENS:

reached interreflection limit: 69.46 (2.4%)
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): 71.63 (2.5%)

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Number of Lamps: 1 Lumens per Lamp: 2900
Ballast Factor: 1.00 Ballast-Lamp Photometric Factor: 1.00
Luminaire Width: 0.7348 Length: 4.0000 Height: 0.1875
Photometry Type: C Units: feet

Candela Distribution:

	0.00	22.50	45.00	67.50	90.00
0.00	648	648	648	648	648
5.00	686	621	642	668	636
10.00	632	625	656	607	604
15.00	629	609	608	588	617
20.00	584	593	590	607	588
25.00	575	559	595	592	607
30.00	550	527	563	616	622
35.00	518	528	563	610	618
40.00	487	488	565	569	576
45.00	455	473	533	527	533
50.00	393	439	477	488	495
55.00	352	412	420	469	485
60.00	306	355	390	428	433
65.00	253	302	353	393	395
70.00	209	266	320	349	374
75.00	164	220	290	344	374
80.00	117	178	259	328	354
85.00	65.4	133	221	280	297
90.00	31.8	79.6	136	182	196

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Zonal Lumens

Cone	Between	Lumens
0.0	0.0- 2.5	3.88
5.0	2.5- 7.5	30.95
10.0	7.5- 12.5	59.64
15.0	12.5- 17.5	86.11
20.0	17.5- 22.5	111.37
25.0	22.5- 27.5	135.35
30.0	27.5- 32.5	157.10
35.0	32.5- 37.5	178.32
40.0	37.5- 42.5	189.68
45.0	42.5- 47.5	196.39
50.0	47.5- 52.5	194.00
55.0	52.5- 57.5	192.93
60.0	57.5- 62.5	183.02
65.0	62.5- 67.5	170.36
70.0	67.5- 72.5	157.88
75.0	72.5- 77.5	148.67
80.0	77.5- 82.5	134.96
85.0	82.5- 87.5	111.26
90.0	87.5- 92.5	70.02

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fixt
0- 30	503	17.3	20.0
0- 40	855	29.5	34.0
0- 60	1626	56.1	64.7
0- 90	2477	85.4	98.6
90-120	35	1.2	1.4
90-130	35	1.2	1.4
90-150	35	1.2	1.4
90-180	35	1.2	1.4
0-180	2512	86.6	100.0

Total Luminaire Optical Efficiency = 86.6%

Luminaire Spacing Criterion:

0 deg	90 deg
1.26	1.45

Average Luminaire Luminance (cd/m²):

	0	45	90
0	2374.35	2374.35	2374.35
45	2250.33	2274.18	2198.60
50	2121.92	2166.05	2164.14
55	2106.76	2052.80	2269.53
60	2073.09	2082.58	2201.87
65	1994.99	2095.47	2212.75
70	1985.23	2157.38	2351.54
75	1980.57	2280.92	2710.41
80	1950.25	2474.08	3048.89
85	1790.54	2694.18	3181.86

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	90	84	79	75	87	82	78	74	79	75	71
2	80	72	65	58	78	70	63	58	67	61	56
3	73	62	54	47	70	61	53	47	58	51	46
4	66	54	46	39	64	53	45	39	51	44	38
5	60	48	39	33	58	47	39	33	45	38	32
6	56	43	35	28	54	42	34	28	40	33	28
7	51	39	31	25	50	38	30	25	37	30	24
8	48	35	27	22	46	35	27	22	33	27	22
9	44	32	25	20	43	32	24	19	31	24	19
10	42	30	22	18	40	29	22	17	28	22	17

pcc	.3			.1			0
pw	.5	.3	.1	.5	.3	.1	0
RCR							
0	91	91	91	87	87	87	86
1	75	72	69	72	69	67	65
2	64	59	55	61	57	54	51
3	55	50	45	53	48	44	42
4	49	43	38	47	41	37	35
5	43	37	32	42	36	32	30
6	39	33	28	38	32	27	25
7	35	29	24	34	28	24	22
8	32	26	21	31	26	21	20
9	30	24	19	29	23	19	17
10	27	21	17	27	21	17	16