



7036 Snowdrift Road Suite 200  
Allentown, PA 18106  
610-774-1300

## Photometric Indoor Test Report

Relevant Standards  
IES LM-79-2008  
ANSI C82.77-2002

Prepared For  
Encapsulite International Inc  
Brian Pierson  
1220 Bamore Road  
Rosenberg, TX 77471-3027

Catalog Number  
WGP74LED  
Project Number  
10165693  
Test Number  
438508

Test Date

2013-12-20

Prepared By

Handwritten signature of Tammy Lacey in black ink.

Tammy Lacey, Administrative Assistant II

Approved By

Handwritten signature of Eric M. Gaudreau in black ink.

Eric Gaudreau, Engineering Project Handler

The results contained in this report pertain only to the tested sample.  
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Luminaire Description: Formed plastic housing, aluminum heatsink, clear plastic tube enclosure  
Catalog Number: WGP74LED  
Lamp: 144 white LEDs  
Mounting: Horizontal  
Ballast/Driver: One Universal D310CQ50UNVA-A10C

Luminaire

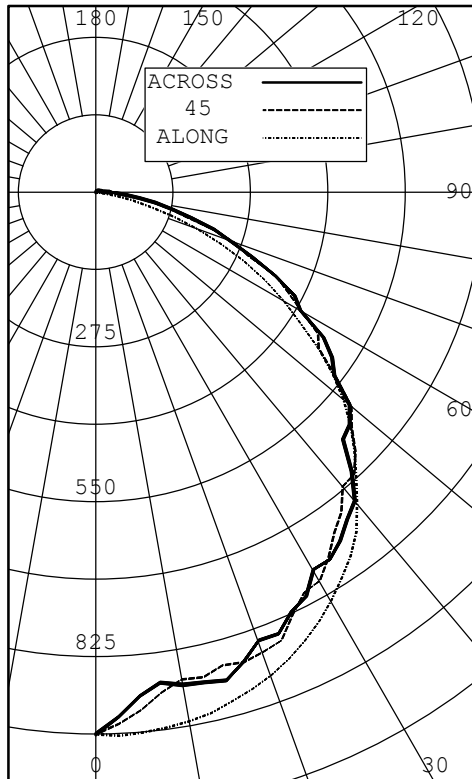


Test Conditions

Test Temperature:	25.2 °C
Voltage:	120.0 VAC
Current:	0.2205 A
Power:	26.24 W
Power Factor:	0.992
Frequency:	60 Hz
Current THD:	9.70 %



INTENSITY (CANDLEPOWER) SUMMARY OUTPUT LUMENS



ANGLE	ALONG	22.5	45	67.5	ACROSS	OUTPUT LUMENS
0	963	963	963	963	963	
5	964	946	924	909	899	89
15	937	876	871	893	898	250
25	879	824	828	838	823	384
35	790	761	739	759	757	472
45	650	607	652	643	621	491
55	482	470	483	501	512	439
65	291	322	353	357	352	327
75	104	158	164	186	177	174
85	8	38	51	58	55	53
90	1	16	23	26	24	
95	1	9	13	13	12	13
105	0	3	8	9	9	7
115	0	1	4	6	6	4
125	0	0	2	3	3	2
135	0	0	1	2	2	1
145	0	0	0	1	1	0
155	0	0	0	1	1	0
165	0	0	0	0	0	0
175	0	0	0	0	0	0
180	0	0	0	0	0	

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	724	26.74
0-40	1195	44.18
0-60	2126	78.55
0-90	2680	99.03
40-90	1484	54.86
60-90	554	20.48
90-180	26	0.97
0-180	2706	100.00

EFFICACY (LUMENS PER WATT): 103.3

\*\*\* THIS IS AN ABSOLUTE TEST \*\*\*

LUMINOUS LENGTH: 44.000 INS  
 WIDTH: 1.500 INS

LUMINANCE SUMMARY CD./SQ.M.

S/MH: 1.2  
 SC (ALONG): 1.3, SC (ACROSS): 1.2

ANGLE	ALONG	45	ACROSS
45	21599	21750	20697
55	19735	19855	21051
65	16159	19699	19638
75	9391	14853	16090
85	2047	13872	14809

TESTED IN ACCORDANCE WITH IES PROCEDURES.

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INTENSITY (CANDLEPOWER) DATA

ANGLE	PLANE						OUTPUT LUMENS
	ALONG	22.5	45	67.5	ACROSS	AVERAGE	
0	963	963	963	963	963	963	
5	964	946	924	909	899	927	89
10	955	915	879	895	889	903	
15	937	876	871	893	898	889	250
20	913	841	870	855	848	862	
25	879	824	828	838	823	835	384
30	837	793	797	797	774	798	
35	790	761	739	759	757	758	472
40	722	690	683	712	716	701	
45	650	607	652	643	621	634	491
50	575	546	592	582	589	576	
55	482	470	483	501	512	488	439
60	385	384	422	431	420	410	
65	291	322	353	357	352	338	327
70	193	232	265	251	257	243	
75	104	158	164	186	177	162	174
80	37	92	101	109	108	94	
85	8	38	51	58	55	44	53
90	1	16	23	26	24	19	
95	1	9	13	13	12	11	13
100	1	6	10	11	10	8	
105	0	3	8	9	9	6	7
110	0	2	7	7	7	5	
115	0	1	4	6	6	4	4
120	0	1	3	4	5	3	
125	0	0	2	3	3	2	2
130	0	0	2	2	3	1	
135	0	0	1	2	2	1	1
140	0	0	1	1	1	1	
145	0	0	0	1	1	1	0
150	0	0	0	1	1	0	
155	0	0	0	1	1	0	0
160	0	0	0	0	0	0	
165	0	0	0	0	0	0	0
170	0	0	0	0	0	0	
175	0	0	0	0	0	0	0
180	0	0	0	0	0	0	



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COEFFICIENTS OF UTILIZATION

ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE = .20

CC WALL	90				80				70				50				30				10				0	
	70	50	30	10	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR	0	1.221	.221	.221	.22	1.191	.191	.191	.19	1.161	.161	.161	.16	1.111	.111	.111	.11	1.061	.061	.061	.06	1.011	.011	.011	.01	0.99
	1	1.121	.071	.030	.99	1.091	.051	.010	.97	1.071	.030	.990	.95	0.980	.950	.92	0.940	.920	.89	0.900	.880	.86	0.84			
	2	1.030	.950	.880	.82	1.000	.930	.860	.81	0.980	.910	.850	.80	0.870	.820	.78	0.840	.800	.76	0.810	.770	.74	0.72			
	3	0.940	.830	.750	.69	0.920	.820	.740	.68	0.890	.800	.730	.68	0.770	.710	.66	0.740	.690	.65	0.720	.680	.64	0.62			
	4	0.870	.750	.660	.59	0.850	.730	.650	.59	0.820	.720	.640	.58	0.690	.630	.57	0.670	.610	.57	0.650	.600	.56	0.54			
	5	0.800	.670	.580	.51	0.780	.660	.570	.50	0.750	.640	.560	.50	0.620	.550	.50	0.600	.540	.49	0.580	.530	.48	0.46			
	6	0.740	.600	.510	.44	0.720	.590	.500	.44	0.700	.580	.490	.43	0.560	.490	.43	0.540	.470	.43	0.520	.470	.42	0.40			
	7	0.670	.530	.440	.39	0.660	.520	.440	.38	0.640	.520	.430	.38	0.500	.420	.37	0.480	.420	.37	0.470	.410	.36	0.35			
	8	0.620	.480	.400	.34	0.610	.470	.390	.33	0.590	.470	.390	.33	0.450	.380	.33	0.440	.370	.33	0.430	.370	.32	0.30			
	9	0.580	.440	.350	.29	0.560	.430	.350	.29	0.550	.420	.350	.29	0.410	.340	.29	0.400	.330	.29	0.390	.330	.28	0.27			
	10	0.530	.400	.310	.26	0.520	.390	.310	.26	0.510	.390	.310	.26	0.380	.300	.26	0.370	.300	.25	0.360	.300	.25	0.23			

THE ABOVE COEFFICIENTS HAVE BEEN CALCULATED BASED ON LUMINAIRE LUMENS  
 BECAUSE IN AN ABSOLUTE TEST THE BARE LAMP LUMENS ARE UNKNOWN.  
 LIGHTING DESIGN CALCULATIONS MADE USING THESE COEFFICIENTS SHOULD  
 THEREFORE USE THE LUMINAIRE LUMENS IN THE CALCULATION FORMULA

LABORATORY RESULTS MAY NOT BE REPRESENTATIVE OF FIELD PERFORMANCE.  
 BALLAST AND FIELD FACTORS HAVE NOT BEEN APPLIED.

TEST DISTANCE EXCEEDS FIVE TIMES THE GREATEST  
 LUMINOUS OPENING OF LUMINAIRE.