



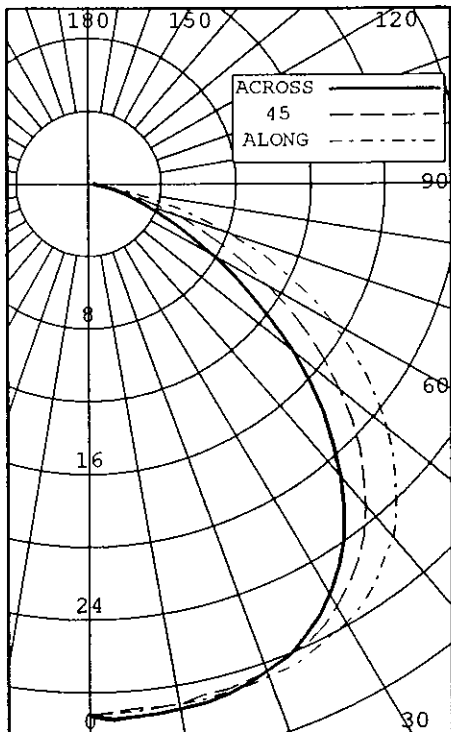
### CERTIFIED TEST REPORT No. 24628

DDP - 12" LED COVEWASH LUMINAIRE, CAT# CWi-12-100-42K  
WITH WHITE PLASTIC LENS OVER LEDS AND CLEAR PLASTIC TUBE LENS  
15 LEDS. LUMINAIRE LUMEN OUTPUT = 81 LMS.  
FIXTURE OPERATING AT 24 VDC AND 4.1 WATTS

#### INTENSITY (CANDLEPOWER) SUMMARY

OUTPUT  
LUMENS

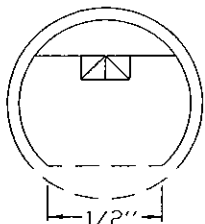
ANGLE	ALONG	22.5	45	67.5	ACROSS	
0	29	29	29	29	29	
5	29	29	29	29	29	3
10	29	29	29	29	29	
15	29	29	29	29	29	8
20	29	28	28	28	28	
25	28	28	28	27	27	13
30	28	27	27	26	26	
35	27	26	25	24	24	16
40	25	25	23	22	21	
45	23	23	21	19	18	16
50	21	20	18	15	14	
55	18	17	14	12	11	13
60	15	14	11	9	8	
65	12	11	8	6	5	8
70	8	8	5	4	3	
75	5	5	3	2	2	4
80	2	2	2	1	1	
85	1	1	1	0	1	1
90	0	0	0	0	0	



#### ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LAMP	% LUMINAIRE
0-30	23	29.39	29.39
0-40	39	48.85	48.85
0-60	68	84.26	84.26
0-90	80	100.00	100.00
40-90	41	51.15	51.15
60-90	12	15.74	15.74
90-180	0	0.00	0.00
0-180	80	100.00	100.00

\*\* EFFICACY: 19.7 LUMENS/WATT \*\*



LUMINANCE SUMMARY CD./SQ.M.

S/MH: 1.3

SC (ALONG): 1.4, SC (ACROSS): 1.3

ANGLE	ALONG	45	ACROSS
45	9969	8844	7670
55	9581	7619	5659
65	8411	5807	3733
75	5842	3659	2523
85	1827	1878	1865

CERTIFIED BY:

*Roda Truong* DATE: DEC 18, 2008

PREPARED FOR:

DDP  
EL SEGUNDO, CA.

TESTED IN ACCORDANCE WITH IES PROCEDURES.

LIGHTING SCIENCES, INC.  
 7826 E. EVANS RD.  
 SCOTTSDALE, AZ, USA 85260

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AVERAGE LUMINANCE DATA

ANGLE	ALONG	CD./SQ.M. (FOOTLAMBERTS)			
		22.5	45	67.5	ACROSS
0	8851( 2583)	8851( 2583)	8851( 2583)	8851( 2583)	8851( 2583)
30	9722( 2837)	9628( 2810)	9358( 2731)	9122( 2662)	9062( 2645)
40	10045( 2931)	9788( 2856)	9147( 2669)	8581( 2504)	8318( 2427)
45	9969( 2909)	9668( 2821)	8844( 2581)	7945( 2319)	7670( 2238)
50	9872( 2881)	9406( 2745)	8261( 2411)	7099( 2072)	6713( 1959)
55	9581( 2796)	8990( 2623)	7619( 2223)	6247( 1823)	5659( 1651)
60	9115( 2660)	8387( 2448)	6710( 1958)	5228( 1526)	4684( 1367)
65	8411( 2455)	7655( 2234)	5807( 1694)	4235( 1236)	3733( 1089)
70	7361( 2148)	6685( 1951)	4800( 1401)	3445( 1005)	3020( 881)
75	5842( 1705)	5294( 1545)	3659( 1067)	2754( 803)	2523( 736)
80	3793( 1107)	3666( 1070)	2635( 769)	2417( 705)	2312( 674)
85	1827( 533)	2303( 672)	1878( 548)	1567( 457)	1865( 544)

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INTENSITY (CANDLEPOWER) DATA  
 IN 2.5 DEGREE STEPS

ANGLE	PLANE						OUTPUT LUMENS
	ALONG	22.5	45	67.5	ACROSS	AVERAGE	
0.0	29	29	29	29	29	29	
2.5	29	29	29	29	30	29	
5.0	29	29	29	29	29	29	3
7.5	29	29	29	29	29	29	
10.0	29	29	29	29	29	29	
12.5	29	29	29	29	29	29	
15.0	29	29	29	29	29	29	8
17.5	29	29	29	29	29	29	
20.0	29	28	28	28	28	28	
22.5	29	28	28	28	28	28	
25.0	28	28	28	27	27	28	13
27.5	28	28	27	27	27	27	
30.0	28	27	27	26	26	27	
32.5	27	27	26	25	25	26	
35.0	27	26	25	24	24	25	16
37.5	26	26	24	23	23	24	
40.0	25	25	23	22	21	23	
42.5	24	24	22	20	19	22	
45.0	23	23	21	19	18	21	16
47.5	22	21	19	17	16	19	
50.0	21	20	18	15	14	18	
52.5	20	19	16	14	12	16	
55.0	18	17	14	12	11	14	13
57.5	17	15	13	10	9	13	
60.0	15	14	11	9	8	11	
62.5	14	12	10	7	6	10	
65.0	12	11	8	6	5	8	8
67.5	10	9	7	5	4	7	
70.0	8	8	5	4	3	6	
72.5	7	6	4	3	3	4	
75.0	5	5	3	2	2	3	4
77.5	3	3	2	2	2	2	
80.0	2	2	2	1	1	2	
82.5	1	1	1	1	1	1	
85.0	1	1	1	0	1	1	1
87.5	0	0	0	0	0	0	
90.0	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	.06	1.021	.021	.02	1.00	
	1	1.131	.091	.051	.02	1.111	.071	.031	.00	1.081	.051	.020	.99	1.000	.980	.96	0.970	.950	.93	0.930	.910	.90	0.88		
	2	1.040	.970	.910	.86	1.020	.950	.900	.85	1.000	.940	.880	.84	0.900	.860	.82	0.870	.830	.80	0.840	.810	.78	0.76		
	3	0.960	.860	.790	.73	0.940	.850	.780	.72	0.920	.830	.770	.72	0.810	.750	.70	0.780	.730	.69	0.760	.720	.68	0.66		
	4	0.890	.780	.690	.63	0.870	.770	.690	.63	0.850	.750	.680	.62	0.730	.670	.62	0.710	.650	.61	0.690	.640	.60	0.58		
	5	0.820	.700	.610	.55	0.800	.690	.610	.54	0.780	.680	.600	.54	0.650	.590	.54	0.640	.580	.53	0.620	.570	.53	0.51		
	6	0.760	.630	.540	.48	0.740	.620	.530	.48	0.720	.610	.530	.47	0.590	.520	.47	0.570	.510	.47	0.560	.500	.46	0.44		
	7	0.690	.560	.470	.42	0.680	.550	.470	.41	0.660	.540	.470	.41	0.530	.460	.41	0.510	.450	.40	0.500	.450	.40	0.38		
	8	0.650	.510	.420	.37	0.630	.500	.420	.36	0.620	.490	.420	.36	0.480	.410	.36	0.470	.400	.36	0.460	.400	.36	0.34		
	9	0.600	.460	.380	.32	0.580	.460	.370	.32	0.570	.450	.370	.32	0.440	.370	.32	0.430	.360	.31	0.420	.360	.31	0.30		
	10	0.550	.420	.330	.28	0.540	.410	.330	.28	0.530	.410	.330	.28	0.400	.330	.28	0.390	.320	.28	0.380	.320	.28	0.26		

LUMINAIRE INPUT WATTS = 4.1

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.