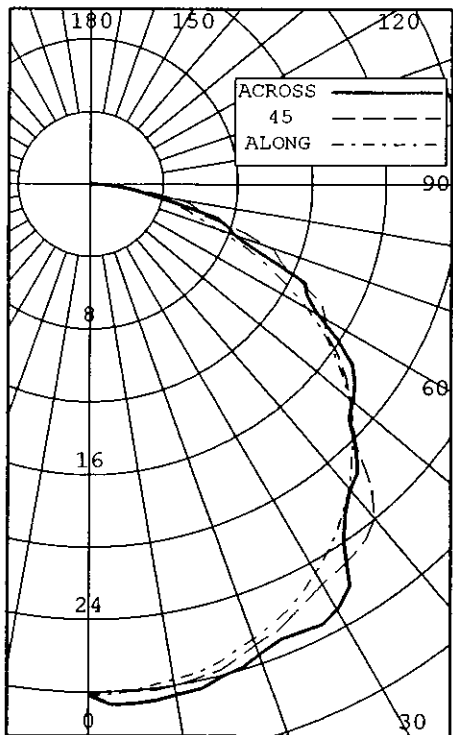


CERTIFIED TEST REPORT No. 24713

DDP - 12" LED COVEWASH LUMINAIRE, CAT# LS-12-42K
WITH WHITE INTERIOR AND CLEAR PLASTIC TUBE LENS
10 LEDS. LUMINAIRE LUMEN OUTPUT = 90 LMS.
FIXTURE OPERATING AT 24 VDC AND 2.5 WATTS

INTENSITY (CANDLEPOWER) SUMMARY OUTPUT LUMENS

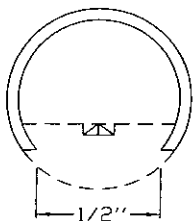
ANGLE	ALONG	22.5	45	67.5	ACROSS	OUTPUT LUMENS
0	28	28	28	28	28	
5	28	28	28	28	29	3
10	28	28	28	28	29	
15	27	27	28	28	28	8
20	27	27	27	27	27	
25	26	26	26	27	27	12
30	25	25	25	27	27	
35	23	24	25	25	24	15
40	22	22	24	22	22	
45	20	21	20	21	20	16
50	18	19	18	18	19	
55	16	18	16	17	17	15
60	13	15	15	15	14	
65	10	11	12	13	13	12
70	8	8	11	8	8	
75	5	6	6	7	7	7
80	3	4	5	4	3	
85	1	2	2	2	2	2
90	0	0	0	0	0	



ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LAMP	% LUMINAIRE
0-30	22	25.38	25.38
0-40	37	42.29	42.29
0-60	68	76.77	76.77
0-90	89	100.00	100.00
40-90	51	57.71	57.71
60-90	20	23.23	23.23
90-180	0	0.00	0.00
0-180	89	100.00	100.00

** EFFICACY: 36.0 LUMENS/WATT **



LUMINANCE SUMMARY CD./SQ.M.

S/MH: 1.4
SC (ALONG): 1.3, SC (ACROSS): 1.4

ANGLE	ALONG	45	ACROSS
45	7807	7972	7937
55	7720	7899	8328
65	6827	8091	8376
75	5849	6379	7617
85	3016	7203	5741

CERTIFIED BY:

Reydon Terrence

DATE:
JAN 16, 2009

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	7757(2264)	7757(2264)	7757(2264)	7757(2264)	7757(2264)
30	7813(2280)	7956(2322)	8082(2358)	8458(2468)	8570(2501)
40	7839(2288)	7944(2318)	8622(2516)	7876(2298)	7863(2295)
45	7807(2278)	8105(2365)	7972(2326)	8028(2343)	7937(2316)
50	7841(2288)	8380(2446)	7846(2290)	7677(2240)	7957(2322)
55	7720(2253)	8617(2515)	7899(2305)	8326(2430)	8328(2430)
60	7410(2162)	8055(2351)	8102(2364)	8016(2339)	7787(2272)
65	6827(1992)	7177(2094)	8091(2361)	8383(2446)	8376(2444)
70	6141(1792)	6800(1984)	8511(2484)	6776(1977)	6779(1978)
75	5849(1707)	6396(1866)	6379(1862)	7922(2312)	7617(2223)
80	4755(1388)	6530(1905)	8487(2477)	6335(1849)	5441(1588)
85	3016(880)	7709(2250)	7203(2102)	6268(1829)	5741(1675)

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FIXTURE OPERATING AT 24 VDC AND 2.5 WATTS

INTENSITY (CANDLEPOWER) DATA
IN 2.5 DEGREE STEPS

ANGLE	PLANE						OUTPUT LUMENS
	ALONG	22.5	45	67.5	ACROSS	AVERAGE	
0.0	28	28	28	28	28	28	
2.5	28	28	28	28	29	28	
5.0	28	28	28	28	29	28	3
7.5	28	28	28	28	29	28	
10.0	28	28	28	28	29	28	
12.5	28	28	28	28	28	28	
15.0	27	27	28	28	28	28	8
17.5	27	27	27	28	28	27	
20.0	27	27	27	27	27	27	
22.5	26	26	27	27	27	27	
25.0	26	26	26	27	27	26	12
27.5	25	26	26	27	27	26	
30.0	25	25	25	27	27	26	
32.5	24	24	25	26	26	25	
35.0	23	24	25	25	24	24	15
37.5	23	23	25	23	23	23	
40.0	22	22	24	22	22	22	
42.5	21	21	23	21	21	22	
45.0	20	21	20	21	20	20	16
47.5	19	20	19	19	19	19	
50.0	18	19	18	18	19	19	
52.5	17	19	17	18	18	18	
55.0	16	18	16	17	17	17	15
57.5	15	17	15	16	16	16	
60.0	13	15	15	15	14	14	
62.5	12	12	14	13	13	13	
65.0	10	11	12	13	13	12	12
67.5	9	10	11	12	10	11	
70.0	8	8	11	8	8	9	
72.5	6	7	9	8	8	8	
75.0	5	6	6	7	7	6	7
77.5	4	6	6	6	5	6	
80.0	3	4	5	4	3	4	
82.5	2	3	3	3	3	3	
85.0	1	2	2	2	2	2	2
87.5	0	2	2	1	1	1	
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	.061	.06	1.021	.021	.021	.02	1.00
	1	1.121	.071	.030	.99	1.091	.051	.010	.97	1.071	.030	.990	.95	0.980	.950	.92	0.940	.920	.90	0.910	.890	.87	0.85			
	2	1.020	.940	.870	.81	1.000	.920	.860	.80	0.970	.900	.840	.79	0.860	.820	.77	0.830	.790	.76	0.800	.770	.74	0.72			
	3	0.930	.820	.740	.67	0.910	.810	.730	.67	0.890	.790	.720	.66	0.770	.700	.65	0.740	.690	.64	0.710	.670	.63	0.61			
	4	0.860	.740	.640	.58	0.840	.720	.640	.57	0.820	.710	.630	.57	0.680	.620	.56	0.660	.600	.55	0.640	.590	.55	0.53			
	5	0.790	.660	.560	.49	0.770	.640	.560	.49	0.750	.630	.550	.49	0.610	.540	.48	0.590	.530	.48	0.570	.520	.47	0.45			
	6	0.730	.580	.490	.43	0.710	.570	.490	.42	0.690	.560	.480	.42	0.550	.470	.42	0.530	.460	.41	0.510	.460	.41	0.39			
	7	0.660	.520	.430	.37	0.650	.510	.430	.37	0.630	.510	.420	.36	0.490	.410	.36	0.470	.410	.36	0.460	.400	.35	0.33			
	8	0.620	.470	.390	.32	0.600	.460	.380	.32	0.590	.460	.380	.32	0.440	.370	.32	0.430	.360	.32	0.420	.360	.31	0.29			
	9	0.570	.430	.340	.28	0.560	.420	.340	.28	0.540	.420	.340	.28	0.400	.330	.28	0.390	.330	.28	0.380	.320	.27	0.26			
	10	0.530	.390	.300	.25	0.520	.380	.300	.25	0.510	.380	.300	.25	0.370	.300	.25	0.360	.290	.25	0.350	.290	.24	0.23			

LUMINAIRE INPUT WATTS = 2.5

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.