



Lighting Sciences

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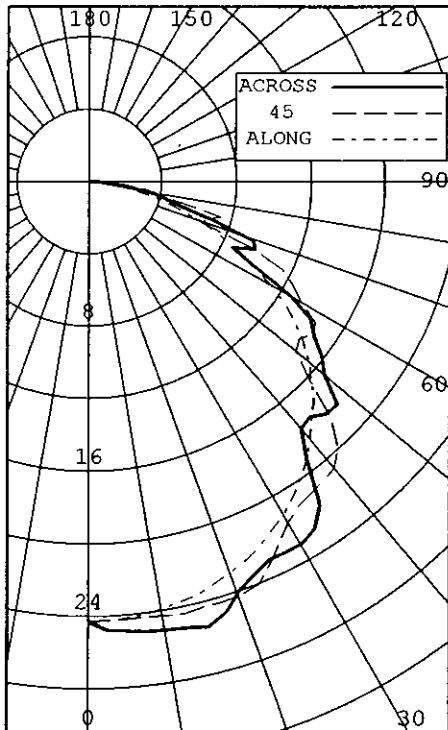
Lighting Sciences Inc.
7826 E. Evans Road
Scottsdale, Arizona 85260 USA
Tel: 480-991-9260 • Fax: 480-991-0375

CERTIFIED TEST REPORT No. 24714

DDP - 12" LED COVEWASH LUMINAIRE, CAT# LS-12-30K
WITH WHITE INTERIOR AND CLEAR PLASTIC TUBE LENS
10 LEDS. LUMINAIRE LUMEN OUTPUT = 77 LMS.
FIXTURE OPERATING AT 24 VDC AND 2.5 WATTS

INTENSITY (CANDLEPOWER) SUMMARY OUTPUT LUMENS

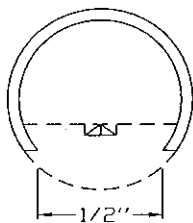
ANGLE	ALONG	22.5	45	67.5	ACROSS	OUTPUT LUMENS
0	24	24	24	24	24	
5	24	24	24	24	25	2
10	24	24	24	24	25	
15	24	24	24	25	25	7
20	23	23	24	24	24	
25	22	23	23	23	23	11
30	21	22	22	22	23	
35	20	21	21	22	22	13
40	19	20	21	18	18	
45	17	18	19	17	18	14
50	15	16	15	17	17	
55	14	15	15	15	15	13
60	11	13	13	13	12	
65	9	9	12	8	9	10
70	7	7	7	9	9	
75	4	6	7	6	5	6
80	2	3	4	4	4	
85	1	2	2	1	1	2
90	0	0	0	0	0	



ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LAMP	% LUMINAIRE
0-30	19	25.63	25.63
0-40	32	42.71	42.71
0-60	59	77.33	77.33
0-90	77	100.00	100.00
40-90	44	57.29	57.29
60-90	17	22.67	22.67
90-180	0	0.00	0.00
0-180	77	100.00	100.00

** EFFICACY: 30.8 LUMENS/WATT **



LUMINANCE SUMMARY CD./SQ.M.

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

ANGLE	ALONG	45	ACROSS
45	6681	7243	7099
55	6496	7102	7154
65	5706	7531	5593
75	4733	7876	5689
85	2077	6361	3427

CERTIFIED BY: *Ryolan Tommy* DATE: JAN 16, 2009
PREPARED FOR: DDP
EL SEGUNDO, CA.

TESTED IN ACCORDANCE WITH IES PROCEDURES.

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AVERAGE LUMINANCE DATA

ANGLE	ALONG	CD./SQ.M.			ACROSS
		22.5	45	67.5	
0	6699 (1955)	6699 (1955)	6699 (1955)	6699 (1955)	6699 (1955)
30	6726 (1963)	7104 (2073)	6902 (2014)	7116 (2076)	7328 (2138)
40	6677 (1948)	7181 (2096)	7438 (2171)	6592 (1924)	6408 (1870)
45	6681 (1950)	6981 (2037)	7243 (2114)	6606 (1928)	7099 (2072)
50	6614 (1930)	6951 (2028)	6230 (1818)	7468 (2179)	7112 (2075)
55	6496 (1896)	7335 (2140)	7102 (2073)	7259 (2118)	7154 (2088)
60	6185 (1805)	7112 (2075)	7271 (2122)	7222 (2108)	6882 (2008)
65	5706 (1665)	5553 (1620)	7531 (2198)	5421 (1582)	5593 (1632)
70	5264 (1536)	5930 (1730)	5261 (1535)	7553 (2204)	7606 (2220)
75	4733 (1381)	6242 (1821)	7876 (2298)	6254 (1825)	5689 (1660)
80	3877 (1131)	4688 (1368)	5698 (1663)	6350 (1853)	5712 (1667)
85	2077 (606)	5596 (1633)	6361 (1856)	4198 (1225)	3427 (1000)

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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	24	24	24	24	24	24	
2.5	24	24	24	24	25	24	
5.0	24	24	24	24	25	24	2
7.5	24	24	24	25	25	24	
10.0	24	24	24	25	25	24	
12.5	24	24	24	25	25	24	
15.0	24	24	24	25	25	24	7
17.5	23	24	24	25	25	24	
20.0	23	23	24	24	24	24	
22.5	23	23	24	23	23	23	
25.0	22	23	23	23	23	23	11
27.5	22	23	22	23	23	22	
30.0	21	22	22	22	23	22	
32.5	21	22	21	22	23	22	
35.0	20	21	21	22	22	21	13
37.5	19	21	21	21	19	20	
40.0	19	20	21	18	18	19	
42.5	18	19	20	17	18	18	
45.0	17	18	19	17	18	18	14
47.5	16	17	16	18	18	17	
50.0	15	16	15	17	17	16	
52.5	15	16	14	16	16	15	
55.0	14	15	15	15	15	15	13
57.5	13	15	14	14	14	14	
60.0	11	13	13	13	12	13	
62.5	10	11	12	11	10	11	
65.0	9	9	12	8	9	9	10
67.5	8	8	9	9	10	9	
70.0	7	7	7	9	9	8	
72.5	5	7	7	8	7	7	
75.0	4	6	7	6	5	6	6
77.5	4	4	5	5	4	4	
80.0	2	3	4	4	4	3	
82.5	1	3	3	3	2	3	
85.0	1	2	2	1	1	1	2
87.5	0	1	1	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	.06	.06	1.021	.021	.02	.02	1.00
1	1.121	.071	.030	.99	1.101	.051	.010	.97	1.071	.030	.990	.96	0.980	.950	.93	.93	0.950	.920	.90	.90	0.910	.890	.87	.87	0.85
2	1.020	.940	.880	.81	1.000	.920	.860	.80	0.980	.900	.840	.79	0.870	.820	.78	.78	0.840	.800	.76	.76	0.810	.770	.74	.74	0.72
3	0.940	.830	.740	.68	0.910	.810	.730	.67	0.890	.800	.720	.67	0.770	.710	.65	.65	0.740	.690	.64	.64	0.720	.670	.63	.63	0.61
4	0.860	.740	.650	.58	0.840	.730	.640	.58	0.820	.710	.640	.57	0.690	.620	.57	.57	0.660	.610	.56	.56	0.640	.590	.55	.55	0.53
5	0.790	.660	.570	.50	0.770	.650	.560	.49	0.750	.630	.550	.49	0.610	.540	.49	.49	0.590	.530	.48	.48	0.580	.520	.47	.47	0.45
6	0.730	.590	.490	.43	0.710	.580	.490	.43	0.690	.570	.480	.42	0.550	.480	.42	.42	0.530	.470	.42	.42	0.520	.460	.41	.41	0.39
7	0.660	.520	.430	.37	0.650	.510	.430	.37	0.630	.510	.420	.36	0.490	.410	.36	.36	0.480	.410	.36	.36	0.460	.400	.36	.36	0.34
8	0.620	.470	.390	.32	0.600	.470	.380	.32	0.590	.460	.380	.32	0.440	.370	.32	.32	0.430	.370	.32	.32	0.420	.360	.31	.31	0.29
9	0.570	.430	.340	.28	0.560	.420	.340	.28	0.540	.420	.340	.28	0.400	.330	.28	.28	0.390	.330	.28	.28	0.380	.320	.27	.27	0.26
10	0.530	.390	.300	.25	0.520	.380	.300	.25	0.510	.380	.300	.25	0.370	.300	.25	.25	0.360	.290	.24	.24	0.350	.290	.24	.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.