

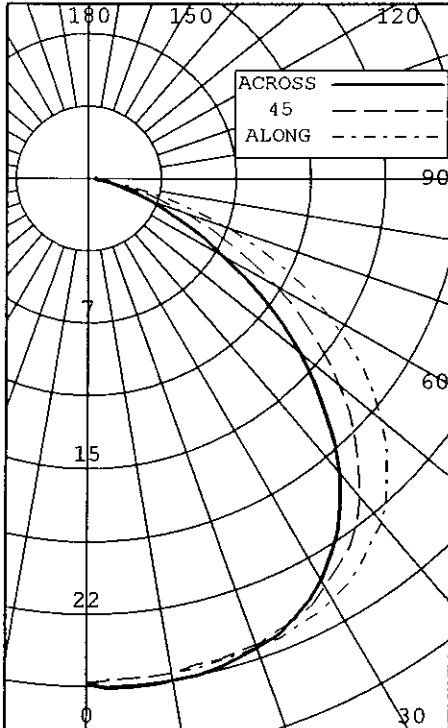


CERTIFIED TEST REPORT No. 24629

DDP - 12" LED COVEWASH LUMINAIRE, CAT# CWi-12-100-30K
WITH WHITE PLASTIC LENS OVER LEDS AND CLEAR PLASTIC TUBE LENS
15 LEDS. LUMINAIRE LUMEN OUTPUT = 75 LMS.
FIXTURE OPERATING AT 24 VDC AND 4.1 WATTS

INTENSITY (CANDLEPOWER) SUMMARY OUTPUT LUMENS

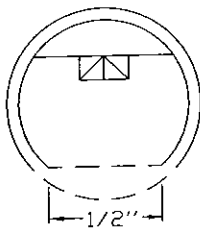
ANGLE	ALONG	22.5	45	67.5	ACROSS	OUTPUT LUMENS
0	26	26	26	26	26	
5	26	26	26	26	26	3
10	26	26	26	26	26	
15	26	26	26	26	26	7
20	26	26	26	26	26	
25	25	25	25	25	25	12
30	25	25	24	24	24	
35	24	24	23	22	22	14
40	23	22	21	20	20	
45	21	21	19	17	17	15
50	19	18	17	15	14	
55	17	16	14	12	11	12
60	14	13	11	9	8	
65	11	10	8	6	5	8
70	8	7	6	4	4	
75	5	5	3	2	2	4
80	2	2	1	1	1	
85	1	1	0	0	0	1
90	0	0	0	0	0	



ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LAMP	% LUMINAIRE
0-30	21	28.41	28.41
0-40	35	47.51	47.51
0-60	62	83.44	83.44
0-90	75	100.00	100.00
40-90	39	52.49	52.49
60-90	12	16.56	16.56
90-180	0	0.00	0.00
0-180	75	100.00	100.00

** EFFICACY: 18.2 LUMENS/WATT **



LUMINANCE SUMMARY CD./SQ.M.

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

ANGLE	ALONG	45	ACROSS
45	9146	8215	7256
55	8900	7267	5754
65	7841	5733	3927
75	5347	3853	2407
85	1811	1737	1661

CERTIFIED BY: *[Signature]* 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.			ACROSS
		22.5	45	67.5	
0	7889 (2302)	7889 (2302)	7889 (2302)	7889 (2302)	7889 (2302)
30	8715 (2543)	8617 (2515)	8460 (2469)	8322 (2429)	8285 (2418)
40	9124 (2663)	8878 (2591)	8443 (2464)	7975 (2327)	7810 (2279)
45	9146 (2669)	8905 (2599)	8215 (2397)	7501 (2189)	7256 (2118)
50	9089 (2652)	8730 (2548)	7793 (2274)	6923 (2020)	6553 (1912)
55	8900 (2597)	8395 (2450)	7267 (2120)	6173 (1801)	5754 (1679)
60	8424 (2458)	7945 (2319)	6615 (1930)	5286 (1542)	4760 (1389)
65	7841 (2288)	7213 (2105)	5733 (1673)	4416 (1288)	3927 (1146)
70	6872 (2005)	6353 (1854)	4896 (1429)	3589 (1047)	3143 (917)
75	5347 (1560)	5304 (1548)	3853 (1124)	2675 (780)	2407 (702)
80	3550 (1036)	3870 (1129)	2564 (748)	2103 (613)	1943 (567)
85	1811 (528)	2303 (672)	1737 (507)	1661 (484)	1661 (484)

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 WITH WHITE PLASTIC LENS OVER LEDS AND CLEAR PLASTIC TUBE LENS
 15 LEDS. LUMINAIRE LUMEN OUTPUT = 75 LMS.
 FIXTURE OPERATING AT 24 VDC AND 4.1 WATTS

INTENSITY (CANDLEPOWER) DATA
 IN 2.5 DEGREE STEPS

ANGLE	PLANE						OUTPUT LUMENS
	ALONG	22.5	45	67.5	ACROSS	AVERAGE	
0.0	26	26	26	26	26	26	
2.5	26	26	26	26	26	26	
5.0	26	26	26	26	26	26	3
7.5	26	26	26	26	26	26	
10.0	26	26	26	26	26	26	
12.5	26	26	26	26	26	26	
15.0	26	26	26	26	26	26	7
17.5	26	26	26	26	26	26	
20.0	26	26	26	26	26	26	
22.5	26	25	25	25	25	25	
25.0	25	25	25	25	25	25	12
27.5	25	25	25	24	24	25	
30.0	25	25	24	24	24	24	
32.5	25	24	24	23	23	24	
35.0	24	24	23	22	22	23	14
37.5	24	23	22	21	21	22	
40.0	23	22	21	20	20	21	
42.5	22	22	20	19	18	20	
45.0	21	21	19	17	17	19	15
47.5	20	20	18	16	15	18	
50.0	19	18	17	15	14	17	
52.5	18	17	15	13	12	15	
55.0	17	16	14	12	11	14	12
57.5	15	15	12	10	9	12	
60.0	14	13	11	9	8	11	
62.5	13	12	9	7	7	9	
65.0	11	10	8	6	5	8	8
67.5	9	9	7	5	4	7	
70.0	8	7	6	4	4	6	
72.5	6	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	1	1	1	2	
82.5	1	1	1	1	1	1	
85.0	1	1	0	0	0	1	1
87.5	0	0	0	0	0	0	
90.0	0	0	0	0	0	0	

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 FIXTURE OPERATING AT 24 VDC AND 4.1 WATTS

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	0			
RCR																									
0	1.221	.221	.221	.22	1.191	.191	.191	.19	1.161	.161	.161	.16	1.111	.111	.11	1.071	.071	.07	1.021	.021	.02	1.00			
1	1.131	.091	.051	.02	1.111	.071	.031	.00	1.081	.051	.010	.98	1.000	.980	.95	0.960	.940	.92	0.930	.910	.90	0.88			
2	1.040	.970	.910	.85	1.020	.950	.890	.84	1.000	.930	.880	.83	0.900	.850	.81	0.870	.830	.80	0.840	.810	.78	0.76			
3	0.960	.860	.780	.72	0.940	.850	.770	.72	0.920	.830	.760	.71	0.800	.750	.70	0.780	.730	.69	0.750	.710	.68	0.66			
4	0.890	.770	.690	.63	0.870	.760	.680	.62	0.850	.750	.680	.62	0.720	.660	.61	0.700	.650	.60	0.680	.630	.59	0.57			
5	0.820	.700	.610	.54	0.800	.680	.600	.54	0.780	.670	.590	.54	0.650	.580	.53	0.630	.570	.52	0.610	.560	.52	0.50			
6	0.760	.620	.530	.47	0.740	.610	.530	.47	0.720	.600	.520	.47	0.580	.520	.46	0.570	.510	.46	0.550	.500	.45	0.44			
7	0.690	.560	.470	.41	0.680	.550	.470	.41	0.660	.540	.460	.40	0.530	.450	.40	0.510	.450	.40	0.500	.440	.40	0.38			
8	0.640	.500	.420	.36	0.630	.500	.420	.36	0.610	.490	.410	.36	0.480	.410	.36	0.470	.400	.35	0.450	.390	.35	0.33			
9	0.600	.460	.370	.32	0.580	.450	.370	.32	0.570	.450	.370	.32	0.430	.360	.31	0.420	.360	.31	0.410	.350	.31	0.29			
10	0.550	.420	.330	.28	0.540	.410	.330	.28	0.530	.400	.330	.28	0.390	.330	.28	0.390	.320	.28	0.380	.320	.27	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.