

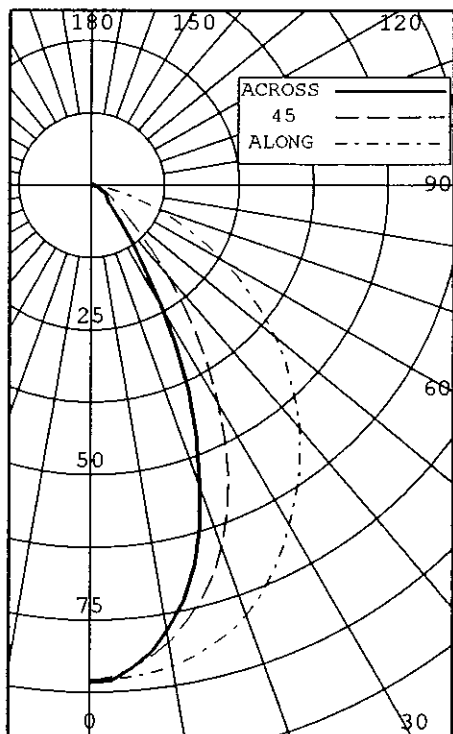


CERTIFIED TEST REPORT No. 24715

DDP - 12" LED COVEWASH LUMINAIRE, CAT# CWi-12-60-63K
WITH LINEAR PRISMATIC PLASTIC LENS OVER LEDS AND CLEAR PLASTIC TUBE LENS
15 LEDS. LUMINAIRE LUMEN OUTPUT = 109 LMS.
FIXTURE OPERATING AT 24 VDC AND 4.03 WATTS

INTENSITY (CANDLEPOWER) SUMMARY OUTPUT LUMENS

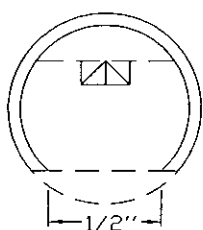
ANGLE	ALONG	22.5	45	67.5	ACROSS	OUTPUT LUMENS
0	86	86	86	86	86	
5	85	85	84	83	84	8
10	84	82	80	78	77	
15	82	78	74	69	68	21
20	78	73	65	57	54	
25	73	67	55	43	39	25
30	67	59	43	29	24	
35	61	51	31	16	12	21
40	55	42	20	8	7	
45	47	33	12	5	4	15
50	40	26	7	4	4	
55	33	19	5	3	3	10
60	25	13	4	3	3	
65	18	9	3	2	2	6
70	12	5	2	2	1	
75	7	3	2	1	1	3
80	3	2	1	1	1	
85	1	1	1	1	1	1
90	0	0	0	0	0	



ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LAMP	% LUMINAIRE
0-30	53	49.09	49.09
0-40	74	68.33	68.33
0-60	99	91.31	91.31
0-90	109	100.00	100.00
40-90	34	31.67	31.67
60-90	9	8.69	8.69
90-180	0	0.00	0.00
0-180	109	100.00	100.00

** EFFICACY: 27.0 LUMENS/WATT **



LUMINANCE SUMMARY CD./SQ.M.

ANGLE	ALONG	45	ACROSS
45	20277	5222	1797
55	17193	2552	1577
65	13180	2055	1304
75	8438	1829	1492
85	2712	1936	1800

S/MH: 0.8

SC (ALONG): 1.2, SC (ACROSS): 0.8

CERTIFIED BY:

Ryola Tummy DATE: JAN 15, 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	25900 (7559)	25900 (7559)	25900 (7559)	25900 (7559)	25900 (7559)
30	23432 (6839)	20723 (6048)	14952 (4364)	10172 (2968)	8264 (2412)
40	21615 (6308)	16742 (4886)	7943 (2318)	3356 (979)	2631 (767)
45	20277 (5918)	14339 (4185)	5222 (1524)	2165 (632)	1797 (524)
50	19002 (5546)	12196 (3559)	3473 (1013)	1806 (527)	1677 (489)
55	17193 (5018)	10071 (2939)	2552 (745)	1772 (517)	1577 (460)
60	15380 (4488)	7953 (2321)	2358 (688)	1574 (459)	1570 (458)
65	13180 (3846)	6121 (1786)	2055 (599)	1588 (463)	1304 (380)
70	10791 (3149)	4856 (1417)	1962 (572)	1585 (462)	1230 (359)
75	8438 (2462)	3885 (1134)	1829 (533)	1351 (394)	1492 (435)
80	5353 (1562)	2965 (865)	1876 (547)	1386 (404)	1430 (417)
85	2712 (791)	2860 (834)	1936 (565)	2168 (633)	1800 (525)

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 FIXTURE OPERATING AT 24 VDC AND 4.03 WATTS

INTENSITY (CANDLEPOWER) DATA
 IN 2.5 DEGREE STEPS

ANGLE	PLANE						OUTPUT LUMENS
	ALONG	22.5	45	67.5	ACROSS	AVERAGE	
0.0	86	86	86	86	86	86	
2.5	85	85	85	85	86	85	
5.0	85	85	84	83	84	84	8
7.5	85	83	82	81	81	82	
10.0	84	82	80	78	77	80	
12.5	83	80	77	74	73	77	
15.0	82	78	74	69	68	74	21
17.5	80	76	70	64	62	70	
20.0	78	73	65	57	54	65	
22.5	76	70	60	50	47	61	
25.0	73	67	55	43	39	55	25
27.5	70	63	49	36	31	50	
30.0	67	59	43	29	24	44	
32.5	64	55	37	22	17	38	
35.0	61	51	31	16	12	34	21
37.5	58	46	25	12	9	29	
40.0	55	42	20	8	7	25	
42.5	51	38	16	6	5	22	
45.0	47	33	12	5	4	19	15
47.5	44	30	9	4	4	17	
50.0	40	26	7	4	4	15	
52.5	37	22	6	4	3	13	
55.0	33	19	5	3	3	11	10
57.5	29	16	4	3	3	10	
60.0	25	13	4	3	3	8	
62.5	22	11	3	2	2	7	
65.0	18	9	3	2	2	6	6
67.5	15	7	2	2	2	5	
70.0	12	5	2	2	1	4	
72.5	9	4	2	2	1	3	
75.0	7	3	2	1	1	3	3
77.5	5	2	1	1	1	2	
80.0	3	2	1	1	1	1	
82.5	2	1	1	1	1	1	
85.0	1	1	1	1	1	1	1
87.5	0	1	0	0	0	0	
90.0	0	0	0	0	0	0	

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 FIXTURE OPERATING AT 24 VDC AND 4.03 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	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	1.151	.111	.081	.05	1.121	.091	.061	.04	1.101	.071	.041	.02	1.031	.010	.99	0.990	.970	.96	0.960	.940	.93	0.91			
2	1.081	.020	.970	.92	1.061	.000	.960	.91	1.040	.980	.940	.90	0.950	.910	.88	0.920	.890	.87	0.890	.870	.85	0.83			
3	1.010	.930	.870	.82	0.990	.920	.860	.82	0.970	.900	.850	.81	0.880	.830	.80	0.850	.820	.78	0.830	.800	.77	0.75			
4	0.950	.860	.790	.75	0.940	.850	.790	.74	0.920	.840	.780	.73	0.820	.770	.73	0.800	.750	.72	0.780	.740	.71	0.69			
5	0.900	.800	.730	.67	0.880	.790	.720	.67	0.860	.780	.710	.67	0.760	.700	.66	0.740	.690	.65	0.720	.680	.65	0.63			
6	0.850	.740	.670	.62	0.830	.730	.660	.61	0.810	.720	.660	.61	0.700	.650	.61	0.690	.640	.60	0.680	.630	.60	0.58			
7	0.790	.680	.610	.57	0.780	.670	.610	.56	0.770	.670	.600	.56	0.650	.590	.55	0.640	.590	.55	0.630	.580	.55	0.53			
8	0.750	.640	.570	.52	0.740	.630	.560	.52	0.720	.620	.560	.51	0.610	.550	.51	0.600	.550	.51	0.590	.540	.50	0.49			
9	0.700	.590	.520	.47	0.690	.590	.520	.47	0.680	.580	.520	.47	0.570	.510	.47	0.560	.500	.47	0.550	.500	.46	0.45			
10	0.660	.550	.480	.44	0.650	.550	.480	.44	0.640	.540	.480	.44	0.530	.470	.43	0.520	.470	.43	0.520	.470	.43	0.42			

LUMINAIRE INPUT WATTS = 4.0

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.