



# Lighting Sciences

www.lightingsciences.com

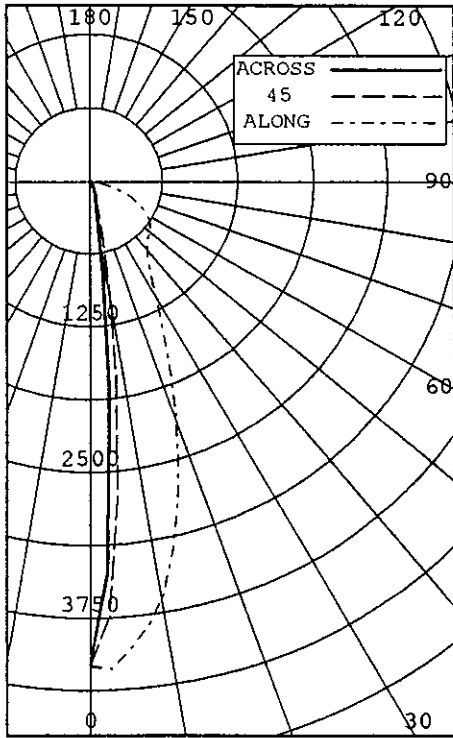
Lighting Sciences Inc.  
7826 E. Evans Road  
Scottsdale, Arizona 85260 USA  
Tel: 480-991-9260 • Fax: 480-991-0375

CERTIFIED TEST REPORT No. 23947

DDP - LED WALL WASH LUMINAIRE, CAT# WG-24-2N-AF-3E-10-17WF-35K  
WITH 10 DEGREE DIFFUSER AND CLEAR FLAT PLASTIC LENS  
24 LEDS WITH INDIVIDUAL LENSES. LUMINAIRE LUMEN OUTPUT = 1013 LMS.  
OPERATING AT 120 VAC AND 42.9 WATTS

### INTENSITY (CANDLEPOWER) SUMMARY OUTPUT LUMENS

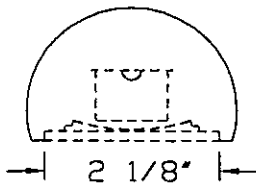
ANGLE	ALONG 22.5	45	67.5	ACROSS	OUTPUT LUMENS	
0	4160	4160	4160	4160	4160	
5	4015	3567	2694	2071	1837	224
10	3588	2252	939	509	417	
15	2852	1134	334	217	198	228
20	2112	524	177	148	138	
25	1505	254	122	105	99	151
30	1106	145	87	75	74	
35	874	98	62	57	56	108
40	751	73	45	42	39	
45	699	62	35	29	27	95
50	671	52	28	20	17	
55	622	47	20	15	14	89
60	558	40	15	12	12	
65	468	33	13	7	7	72
70	365	27	9	5	5	
75	244	18	5	2	3	39
80	124	10	2	1	1	
85	31	2	0	0	0	7
90	0	0	0	0	0	



### ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LAMP	% LUMINAIRE
0-30	602	59.48	59.48
0-40	710	70.17	70.17
0-60	895	88.36	88.36
0-90	1012	100.00	100.00
40-90	302	29.83	29.83
60-90	117	11.64	11.64
90-180	0	0.00	0.00
0-180	1012	100.00	100.00

\*\* EFFICACY: 23.6 LUMENS/WATT \*\*



### LUMINANCE SUMMARY CD./SQ.M.

ANGLE	ALONG	45	ACROSS
45	30539	1530	1183
55	33488	1100	741
65	34216	944	548
75	29101	645	398
85	10894	0	0

S/MH: 0.2  
SC (ALONG): 0.6, SC (ACROSS): 0.2

CERTIFIED BY: *Ryck Tenny* DATE: JUN 24, 2008  
 PREPARED FOR: DPP  
 SEGUNDO, CA

TESTED IN ACCORDANCE WITH IES PROCEDURES.

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

CERTIFIED TEST REPORT No. 23947

DDP - LED WALL WASH LUMINAIRE, CAT# WG-24-2N-AF-3E-10-17WF-35K  
WITH 10 DEGREE DIFFUSER AND CLEAR FLAT PLASTIC LENS  
24 LEDS WITH INDIVIDUAL LENSES. LUMINAIRE LUMEN OUTPUT = 1013 LMS.  
OPERATING AT 120 VAC AND 42.9 WATTS

INTENSITY(CANDLEPOWER) DATA  
IN 2.5 DEGREE STEPS

ANGLE	PLANE						OUTPUT LUMENS
	ALONG	22.5	45	67.5	ACROSS	AVERAGE	
0.0	4160	4160	4160	4160	4160	4160	
2.5	4186	4010	3732	3464	3366	3745	
5.0	4015	3567	2694	2071	1837	2814	224
7.5	3831	2935	1672	1050	845	1999	
10.0	3588	2252	939	509	417	1426	
12.5	3228	1640	531	312	271	1058	
15.0	2852	1134	334	217	198	803	228
17.5	2461	783	235	175	162	626	
20.0	2112	524	177	148	138	493	
22.5	1792	359	145	125	117	396	
25.0	1505	254	122	105	99	321	151
27.5	1281	186	102	89	86	265	
30.0	1106	145	87	75	74	224	
32.5	975	116	73	66	64	194	
35.0	874	98	62	57	56	171	108
37.5	799	84	53	49	49	153	
40.0	751	73	45	42	39	139	
42.5	723	66	39	36	32	130	
45.0	699	62	35	29	27	122	95
47.5	682	58	31	24	22	116	
50.0	671	52	28	20	17	111	
52.5	649	50	23	17	17	106	
55.0	622	47	20	15	14	100	89
57.5	596	43	19	12	12	95	
60.0	558	40	15	12	12	88	
62.5	515	36	15	10	10	81	
65.0	468	33	13	7	7	73	72
67.5	420	30	11	7	7	65	
70.0	365	27	9	5	5	57	
72.5	302	22	7	4	3	46	
75.0	244	18	5	2	3	37	39
77.5	183	13	3	0	2	27	
80.0	124	10	2	1	1	19	
82.5	70	6	1	0	0	11	
85.0	31	2	0	0	0	4	7
87.5	7	0	0	0	0	1	
90.0	0	0	0	0	0	0	

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

CERTIFIED TEST REPORT No. 23947

DDP - LED WALL WASH LUMINAIRE, CAT# WG-24-2N-AF-3E-10-17WF-35K  
 WITH 10 DEGREE DIFFUSER AND CLEAR FLAT PLASTIC LENS  
 24 LEDS WITH INDIVIDUAL LENSES. LUMINAIRE LUMEN OUTPUT = 1013 LMS.  
 OPERATING AT 120 VAC AND 42.9 WATTS

AVERAGE LUMINANCE DATA

ANGLE	ALONG	CD./SQ.M. (FOOTLAMBERTS)			
		22.5	45	67.5	ACROSS
0	128464 ( 37494)	128464 ( 37494)	128464 ( 37494)	128464 ( 37494)	128464 ( 37494)
30	39455 ( 11515)	5170 ( 1509)	3104 ( 906)	2688 ( 784)	2652 ( 774)
40	30283 ( 8838)	2955 ( 862)	1827 ( 533)	1696 ( 495)	1574 ( 459)
45	30539 ( 8913)	2725 ( 795)	1530 ( 446)	1255 ( 366)	1183 ( 345)
50	32238 ( 9409)	2504 ( 731)	1337 ( 390)	940 ( 274)	838 ( 244)
55	33488 ( 9774)	2532 ( 739)	1100 ( 321)	807 ( 235)	741 ( 216)
60	34490 ( 10066)	2472 ( 721)	899 ( 262)	720 ( 210)	718 ( 209)
65	34216 ( 9986)	2400 ( 700)	944 ( 275)	548 ( 160)	548 ( 160)
70	32938 ( 9613)	2447 ( 714)	790 ( 230)	488 ( 142)	487 ( 142)
75	29101 ( 8493)	2139 ( 624)	645 ( 188)	298 ( 87)	398 ( 116)
80	22093 ( 6448)	1706 ( 497)	445 ( 129)	221 ( 64)	221 ( 64)
85	10894 ( 3179)	886 ( 258)	0 ( 0)	0 ( 0)	0 ( 0)

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

CERTIFIED TEST REPORT No. 23947

DDP - LED WALL WASH LUMINAIRE, CAT# WG-24-2N-AF-3E-10-17WF-35K  
 WITH 10 DEGREE DIFFUSER AND CLEAR FLAT PLASTIC LENS  
 24 LEDS WITH INDIVIDUAL LENSES. LUMINAIRE LUMEN OUTPUT = 1013 LMS.  
 OPERATING AT 120 VAC AND 42.9 WATTS

COEFFICIENTS OF UTILIZATION

ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE = .20

CC WALL	90				80				70				50				30				10						
	70	50	30	10	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10			
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	1.001	.001	.00	
1	1.151	.111	.081	.06	1.131	.091	.061	.04	1.101	.071	.051	.02	1.031	.010	.99	0.990	.980	.96	0.960	.940	.93	0.921	.901	.88	0.881	.861	.84
2	1.081	.030	.980	.93	1.061	.010	.960	.92	1.040	.990	.950	.91	0.960	.920	.89	0.930	.900	.88	0.900	.880	.86	0.860	.840	.82	0.820	.800	.78
3	1.020	.950	.890	.84	1.000	.930	.880	.84	0.980	.920	.870	.83	0.900	.850	.82	0.870	.840	.80	0.850	.820	.78	0.820	.790	.75	0.780	.750	.71
4	0.970	.890	.820	.78	0.960	.880	.820	.77	0.940	.870	.810	.77	0.840	.800	.76	0.820	.780	.75	0.800	.770	.74	0.760	.730	.70	0.720	.690	.65
5	0.930	.830	.770	.72	0.910	.820	.760	.72	0.890	.810	.750	.71	0.790	.740	.71	0.780	.730	.70	0.760	.720	.68	0.720	.690	.65	0.680	.650	.61
6	0.880	.790	.720	.68	0.870	.780	.710	.67	0.850	.770	.710	.67	0.750	.700	.66	0.740	.690	.66	0.730	.680	.65	0.700	.660	.62	0.660	.630	.59
7	0.840	.740	.680	.64	0.830	.730	.670	.63	0.810	.730	.670	.63	0.710	.660	.63	0.700	.650	.62	0.690	.650	.62	0.660	.620	.58	0.620	.590	.55
8	0.810	.710	.640	.60	0.790	.700	.640	.60	0.780	.690	.640	.60	0.680	.630	.59	0.670	.620	.59	0.660	.620	.59	0.630	.590	.55	0.590	.560	.52
9	0.770	.670	.610	.57	0.760	.670	.610	.57	0.750	.660	.610	.57	0.650	.600	.57	0.640	.600	.56	0.630	.590	.56	0.600	.560	.52	0.560	.530	.49
10	0.740	.640	.580	.54	0.730	.640	.580	.54	0.720	.630	.580	.54	0.630	.580	.54	0.620	.570	.54	0.610	.570	.54	0.580	.540	.50	0.540	.510	.47

LUMINAIRE INPUT WATTS = 42.9

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.