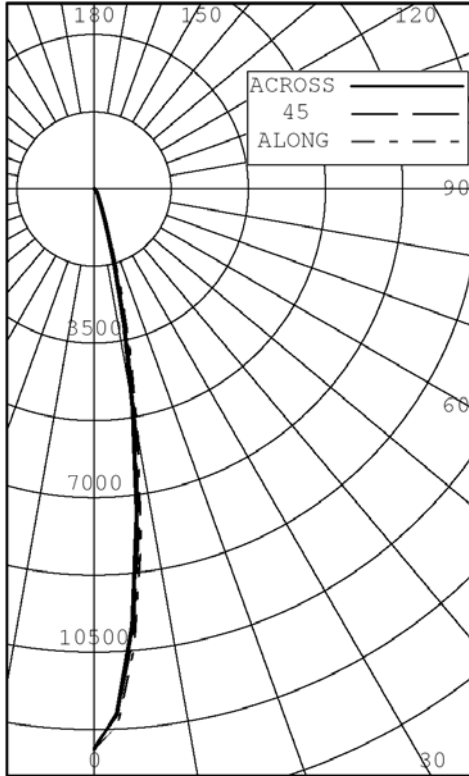




CERTIFIED TEST REPORT No. 26884

DDP - 3' LED WALL WASH LUMINAIRE, CAT# WG-36-IN-AF-FM-15-17WF-30K  
WITH DIFFUSE FLAT PLASTIC LENS  
36 LEDS. LUMINAIRE OUTPUT = 1739 LMS  
LUMINAIRE OPERATING AT 24 VDC AND 52 WATTS



INTENSITY (CANDLEPOWER) SUMMARY						OUTPUT LUMENS
ANGLE	ALONG	22.5	45	67.5	ACROSS	
0	12688	12688	12688	12688	12688	
5	10417	10374	10180	10086	9920	814
10	5730	5631	5401	5209	5026	
15	2309	2242	2078	1892	1792	612
20	814	788	708	644	608	
25	344	336	314	295	286	161
30	198	198	193	191	188	
35	132	134	131	130	129	83
40	88	90	89	88	87	
45	57	57	57	56	54	45
50	35	36	35	34	33	
55	22	21	21	20	19	19
60	13	12	12	11	11	
65	6	6	5	4	5	5
70	1	0	0	0	0	
75	0	0	0	0	0	0
80	0	0	0	0	0	
85	0	0	0	0	0	0
90	0	0	0	0	0	

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	1587	91.26
0-40	1670	96.04
0-60	1734	99.70
0-90	1739	100.00
40-90	69	3.96
60-90	5	0.30
90-180	0	0.00
0-180	1739	100.00

EFFICACY (LUMENS PER WATT): 33.4

\*\*\* THIS IS AN ABSOLUTE TEST \*\*\*

LUMINOUS LENGTH: 35.500 INS  
WIDTH: 2.000 INS

LUMINANCE SUMMARY CD./SQ.M.

ANGLE	ALONG	45	ACROSS
45	1758	1761	1676
55	839	804	739
65	291	243	233
75	0	0	0
85	0	0	0

S/MH: 0.3  
SC: 0.3

CERTIFIED BY:

*Jonah E. Weber III*

DATE:  
APR 15, 2010

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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INTENSITY (CANDLEPOWER) DATA  
IN 2.5 DEGREE STEPS

ANGLE	PLANE						OUTPUT LUMENS
	ALONG	22.5	45	67.5	ACROSS	AVERAGE	
0.0	12688	12688	12688	12688	12688	12688	
2.5	12172	12116	11958	11984	11898	12023	
5.0	10417	10374	10180	10086	9920	10202	814
7.5	8092	8030	7784	7590	7408	7789	
10.0	5730	5631	5401	5209	5026	5405	
12.5	3755	3670	3471	3259	3130	3461	
15.0	2309	2242	2078	1892	1792	2066	612
17.5	1369	1318	1194	1084	1008	1196	
20.0	814	788	708	644	608	713	
22.5	509	495	452	412	396	453	
25.0	344	336	314	295	286	315	161
27.5	253	250	239	232	227	240	
30.0	198	198	193	191	188	194	
32.5	161	162	159	158	156	159	
35.0	132	134	131	130	129	131	83
37.5	108	109	109	108	106	108	
40.0	88	90	89	88	87	88	
42.5	72	72	72	70	69	71	
45.0	57	57	57	56	54	56	45
47.5	46	46	45	44	43	45	
50.0	35	36	35	34	33	35	
52.5	28	28	27	26	25	27	
55.0	22	21	21	20	19	21	19
57.5	16	16	16	16	15	16	
60.0	13	12	12	11	11	12	
62.5	10	8	8	8	8	8	
65.0	6	6	5	4	5	5	5
67.5	3	3	2	2	1	2	
70.0	1	0	0	0	0	0	
72.5	0	0	0	0	0	0	
75.0	0	0	0	0	0	0	0
77.5	0	0	0	0	0	0	
80.0	0	0	0	0	0	0	
82.5	0	0	0	0	0	0	
85.0	0	0	0	0	0	0	0
87.5	0	0	0	0	0	0	
90.0	0	0	0	0	0	0	

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AVERAGE LUMINANCE DATA

CD./SQ.M (FOOTLAMBERTS)

ANGLE	ALONG	22.5	45	67.5	ACROSS
0	276985 ( 80842)	276985 ( 80842)	276985 ( 80842)	276985 ( 80842)	276985 ( 80842)
30	4995 ( 1457)	5003 ( 1460)	4872 ( 1422)	4827 ( 1409)	4750 ( 1386)
40	2493 ( 727)	2565 ( 748)	2537 ( 740)	2511 ( 733)	2467 ( 720)
45	1758 ( 513)	1775 ( 518)	1761 ( 514)	1732 ( 505)	1676 ( 489)
50	1197 ( 349)	1240 ( 362)	1175 ( 343)	1159 ( 338)	1105 ( 322)
55	839 ( 244)	817 ( 238)	804 ( 234)	763 ( 222)	739 ( 215)
60	547 ( 159)	530 ( 154)	517 ( 151)	490 ( 143)	497 ( 145)
65	291 ( 85)	284 ( 82)	243 ( 71)	230 ( 67)	233 ( 68)
70	41 ( 12)	0 ( 0)	3 ( 0)	0 ( 0)	0 ( 0)
75	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)
80	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)
85	0 ( 0)	0 ( 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	1.021	.021	.02	1.00			
1	1.181	.161	.141	.12	1.161	.141	.121	.11	1.131	.121	.101	.09	1.081	.071	.06	1.041	.031	.02	1.011	.001	.00	0.98				
2	1.141	.111	.091	.06	1.121	.101	.071	.05	1.111	.081	.051	.04	1.051	.031	.01	1.021	.010	.99	0.990	.980	.97	0.96				
3	1.111	.071	.041	.01	1.101	.061	.031	.01	1.081	.051	.021	.00	1.021	.000	.98	1.000	.990	.97	0.980	.970	.96	0.94				
4	1.091	.041	.000	.98	1.071	.031	.000	.97	1.061	.020	.990	.97	1.000	.980	.96	0.980	.960	.95	0.970	.950	.94	0.93				
5	1.061	.010	.970	.95	1.051	.000	.970	.94	1.030	.990	.960	.94	0.980	.950	.93	0.960	.940	.92	0.950	.930	.92	0.91				
6	1.040	.990	.950	.93	1.030	.980	.940	.92	1.020	.970	.940	.92	0.960	.930	.91	0.950	.920	.91	0.940	.920	.90	0.89				
7	1.010	.960	.920	.90	1.010	.950	.920	.90	1.000	.950	.920	.89	0.940	.910	.89	0.930	.900	.89	0.920	.900	.88	0.87				
8	1.000	.940	.900	.88	0.990	.930	.900	.88	0.980	.920	.900	.87	0.920	.890	.87	0.910	.890	.87	0.900	.880	.87	0.86				
9	0.970	.920	.890	.86	0.970	.920	.880	.86	0.960	.910	.880	.86	0.900	.880	.86	0.900	.870	.85	0.890	.870	.85	0.84				
10	0.960	.900	.870	.84	0.950	.900	.870	.84	0.940	.890	.870	.84	0.890	.860	.84	0.880	.860	.84	0.880	.850	.84	0.83				

THE ABOVE COEFFICIENTS HAVE BEEN CALCULATED BASED ON LUMINAIRE LUMENS  
 BECAUSE IN AN ABSOLUTE TEST THE BARE LAMP LUMENS ARE UNKNOWN.  
 LIGHTING DESIGN CALCULATIONS MADE USING THESE COEFFICIENTS SHOULD  
 THEREFORE USE THE LUMINAIRE LUMENS IN THE CALCULATION FORMULA

LUMINAIRE INPUT WATTS 52.0

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.

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**ELECTRICAL MEASUREMENTS**

INPUT VOLTAGE:	24.0	VOLTS DC
INPUT CURRENT:	2.261	AMPS
INPUT POWER:	52.0	WATTS
POWER FACTOR:	N/A	PERCENT
TOTAL HARMONIC DISTORTION:	N/A	PERCENT
OFF STATE POWER:	0.00	WATTS

**LIGHT OUTPUT**

LUMENS:	1739	lm
EFFICACY:	33.4	lm/W

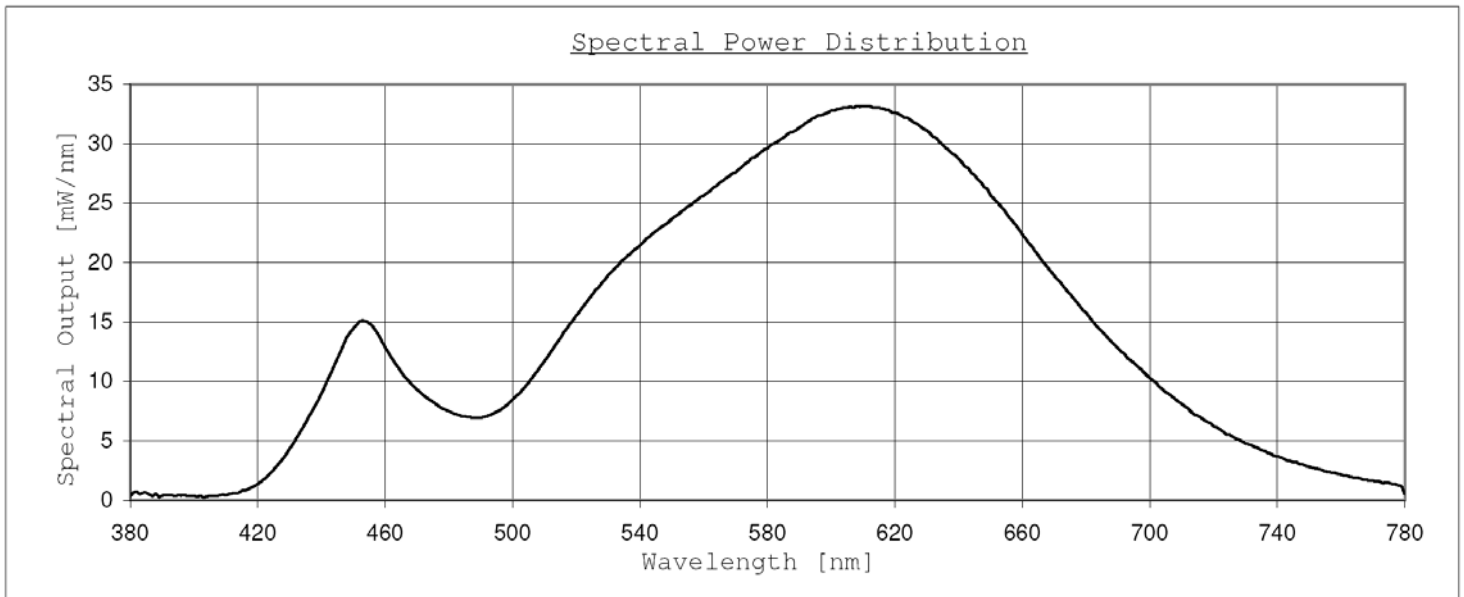
**SPECTRAL MEASUREMENTS**

X:	0.4379	
y:	0.4052	
u/u':	0.2507	
v:	0.3480	
v':	0.5220	
Duv:	0.0002	
CRI (R <sub>a</sub> ):	84.0	
CRI (R <sub>9</sub> ):	30.5	
CCT:	2992	K
RADIANT FLUX:	5760	mW

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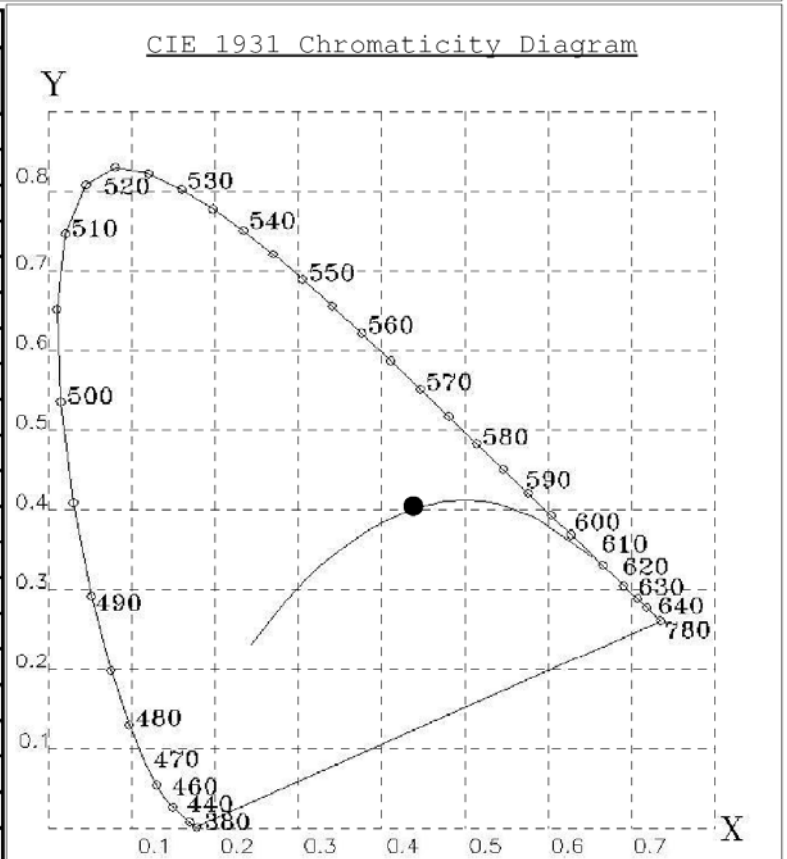
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Tabulated Spectral Power Distribution

Wavelength [nm]	[mW/nm]	Wavelength [nm]	[mW/nm]
380	0.30516	590	31.36600
390	0.38174	600	32.79749
400	0.36145	610	33.16193
410	0.42297	620	32.63492
420	1.36355	630	31.13123
430	4.33291	640	28.71943
440	8.98711	650	25.64967
450	14.44645	660	22.35412
460	12.86884	670	18.89834
470	9.33104	680	15.77347
480	7.49752	690	12.79878
490	6.94017	700	10.29042
500	8.45454	710	8.11467
510	11.71913	720	6.22817
520	15.56070	730	4.76571
530	18.94897	740	3.69952
540	21.45391	750	2.82302
550	23.68093	760	2.16464
560	25.64412	770	1.65173
570	27.57014	780	0.52647
580	29.61430		



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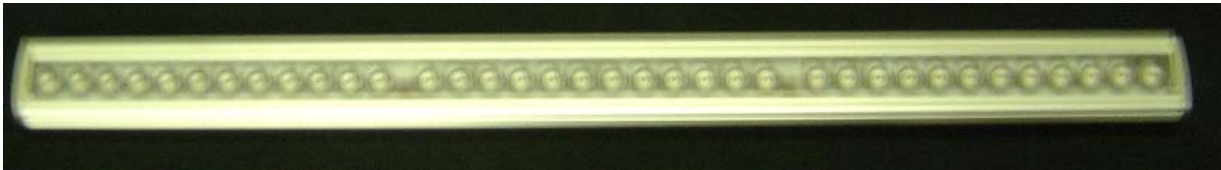
END VIEW



SIDE VIEW



LUMINOUS OPENING



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LUMINAIRE OPERATING AT 24 VDC AND 52 WATTS

This photometric test was conducted using a Lighting Sciences series 6000 Moving Mirror Goniophotometer.

The photometric reference standard used was a set of three incandescent luminous intensity standard lamps calibrated traceable to the U.S. National Institute of Standards and Technology. Calibration certificates are on file at the laboratories of Lighting Sciences Inc.

The condition of the item tested was new. Operating time of the product prior to testing exceeded 8 hours. Stabilization time before testing exceeded 30 minutes.

Colorimetric testing was performed using a Lighting Sciences model 4000 integrating sphere of either 1 or 2 meters diameter, having an internal reflectance exceeding 0.80.  $4\pi$  geometry was used. Correction factors were applied for spectral mismatch and self-absorption. The spectroradiometer employed was a LSC model 500E having a bandwidth .84.

Ambient temperature during testing was  $25^{\circ}\text{C} \pm 1^{\circ}\text{C}$ , measured using an Omega model DP460. All testing was conducted in accordance with IES LM-79-08.

All photometric quantities provided in this report are presented on an absolute basis. Testing was conducted using the rated input voltage to the driver.