



Lighting Sciences, Inc.
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INDEPENDENT TEST LABORATORY REPORT No. 32273

Description:

PRUDENTIAL LIGHTING - LED WALL WASH, CAT# P43-STD-FLSH-LED3SO-04-AWW-D1W
WITH WHITE REFLECTOR AND FROSTED PLASTIC LINEAR PRISMATIC FLAT LENS
128 LEDS. LUMINAIRE OUTPUT = 3064 LMS
ONE EPTRONICS LD50W-36-C1400-RD DRIVER OPERATING AT 120 VAC AND 39.0 WATTS

The sample(s) was(were) tested in accordance with the following applied standards/regulations:

IES LM-41-98: Approved Method for Photometric Testing of Indoor Fluorescent Luminaire (withdrawn)

IES LM-79-08: Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products

Prepared for:

PRUDENTIAL LIGHTING

LOS ANGELES, CA

Approved by:

JIM DOMIGAN

LABORATORY TEAM LEADER

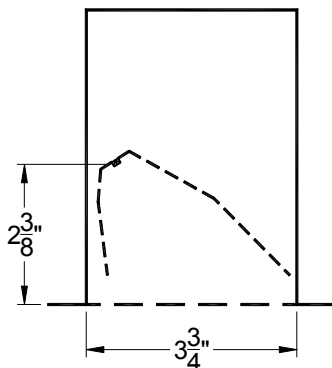
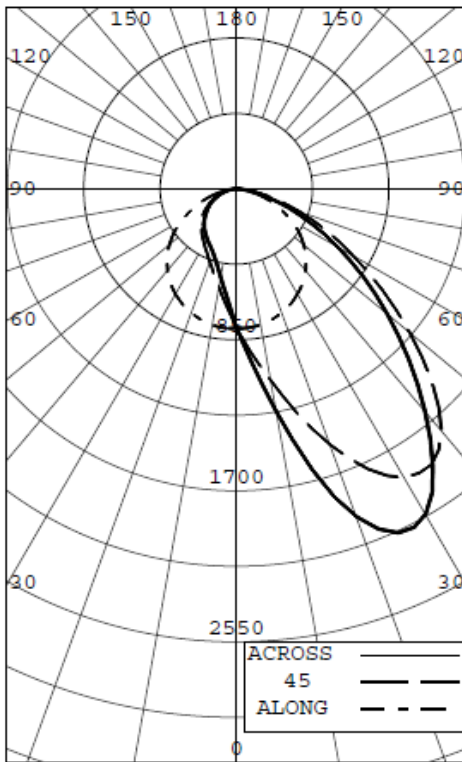
OCT 24, 2013

This report shall not be reproduced except in full without the written approval of the laboratory. The results in this report apply to the test sample(s) mentioned above at the time of the testing period only and are not to be used to indicate applicability to other similar products.

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INTENSITY (CANDLEPOWER)					SUMMARY	OUTPUT LUMENS
ANGLE	ALONG	BEAM	SIDE	22.5	ACROSS	
0	785	785	785	785	785	47
5	786	850	920	969	979	
10	778	923	1093	1224	1267	
15	763	1000	1307	1548	1638	182
20	742	1074	1534	1863	1966	366
25	715	1147	1742	2065	2136	
30	683	1208	1879	2098	2112	
35	644	1253	1894	1946	1909	493
40	600	1268	1775	1679	1633	492
45	548	1238	1541	1400	1358	
50	490	1151	1263	1136	1097	
55	425	1000	991	890	863	393
60	351	802	751	679	651	250
65	276	597	552	491	463	
70	203	411	380	327	309	
75	134	258	236	199	186	115
80	73	139	124	104	98	26
85	26	50	45	40	39	
90	0	0	0	0	0	

BOTH SIDES
ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	803	26.22
0-40	1416	46.20
0-60	2535	82.73
0-90	3064	100.00
40-90	1648	53.80
60-90	529	17.27
90-180	0	0.00
0-180	3064	100.00

EFFICACY (LUMENS PER WATT): 78.6

*** THIS IS AN ABSOLUTE TEST ***

LUMINOUS LENGTH: 48.000 INS
WIDTH: 3.750 INS

LUMINANCE SUMMARY - CD./SQ.M.
BEAM SIDE

ANGLE	ALONG	45	ACROSS
45	6673	18839	16600
55	6380	14927	13008
65	5623	11289	9467
75	4458	7864	6208
85	2568	4417	3858

TESTED IN ACCORDANCE WITH IES PROCEDURES.

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BEAM SIDE
INTENSITY(CANDLEPOWER) DATA
IN 2.5 DEGREE STEPS

ANGLE	PLANE						OUTPUT
	ALONG	67.5	45	22.5	ACROSS	AVERAGE	LUMENS
0.0	785	785	785	785	785	785	
2.5	788	814	847	866	868	839	
5.0	786	850	920	969	979	906	47
7.5	782	886	1002	1087	1112	980	
10.0	778	923	1093	1224	1267	1066	
12.5	773	964	1195	1381	1446	1162	
15.0	763	1000	1307	1548	1638	1264	182
17.5	753	1037	1422	1715	1818	1365	
20.0	742	1074	1534	1863	1966	1456	
22.5	731	1111	1643	1983	2074	1535	
25.0	715	1147	1742	2065	2136	1595	366
27.5	700	1178	1823	2106	2149	1633	
30.0	683	1208	1879	2098	2112	1646	
32.5	664	1234	1898	2041	2027	1630	
35.0	644	1253	1894	1946	1909	1592	493
37.5	623	1264	1850	1819	1773	1533	
40.0	600	1268	1775	1679	1633	1459	
42.5	575	1259	1669	1539	1494	1375	
45.0	548	1238	1541	1400	1358	1283	492
47.5	520	1202	1402	1267	1224	1186	
50.0	490	1151	1263	1136	1097	1086	
52.5	458	1083	1124	1010	977	984	
55.0	425	1000	991	890	863	881	393
57.5	389	905	866	780	754	781	
60.0	351	802	751	679	651	683	
62.5	314	698	647	582	553	590	
65.0	276	597	552	491	463	502	250
67.5	240	501	463	405	382	420	
70.0	203	411	380	327	309	344	
72.5	168	331	304	258	243	274	
75.0	134	258	236	199	186	213	115
77.5	102	195	176	148	138	159	
80.0	73	139	124	104	98	113	
82.5	47	90	80	68	65	73	
85.0	26	50	45	40	39	42	26
87.5	10	21	21	20	20	19	
90.0	0	0	0	0	0	0	

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BEAM SIDE
AVERAGE LUMINANCE DATA

CD./SQ.M (FOOTLAMBERTS)

ANGLE	ALONG	67.5	45	22.5	ACROSS
0	6757(1972)	6757(1972)	6757(1972)	6757(1972)	6757(1972)
30	6791(1982)	12047(3516)	18732(5467)	20912(6103)	21000(6129)
40	6744(1968)	14285(4169)	19968(5827)	18925(5523)	18353(5356)
45	6673(1947)	15097(4406)	18839(5498)	17099(4990)	16600(4845)
50	6564(1915)	15478(4517)	16920(4938)	15254(4452)	14695(4289)
55	6380(1862)	15043(4390)	14927(4356)	13407(3913)	13008(3796)
60	6045(1764)	13854(4043)	12947(3778)	11730(3423)	11213(3272)
65	5623(1641)	12175(3553)	11289(3294)	10032(2928)	9467(2763)
70	5110(1491)	10392(3033)	9605(2803)	8253(2408)	7767(2266)
75	4458(1301)	8616(2514)	7864(2295)	6627(1934)	6208(1812)
80	3620(1056)	6904(2015)	6152(1795)	5179(1511)	4839(1412)
85	2568(749)	4917(1435)	4417(1289)	3916(1143)	3858(1126)

LUMINOUS LENGTH: 48.000 INS
WIDTH: 3.750 INS

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OPPOSITE SIDE TO BEAM
INTENSITY(CANDLEPOWER) DATA
IN 2.5 DEGREE STEPS

ANGLE	PLANE						OUTPUT LUMENS
	ALONG	112.5	135	157.5	ACROSS	AVERAGE	
0.0	785	785	785	785	785	785	
2.5	788	742	717	696	687	723	
5.0	786	708	661	628	615	674	31
7.5	782	676	611	571	557	632	
10.0	778	646	567	523	508	595	
12.5	773	616	528	482	468	562	
15.0	763	585	494	449	435	532	75
17.5	753	557	464	421	408	505	
20.0	742	531	437	398	386	482	
22.5	731	506	416	379	369	463	
25.0	715	483	395	362	353	444	102
27.5	700	461	378	348	340	427	
30.0	683	440	362	334	328	410	
32.5	664	420	346	323	317	395	
35.0	644	401	332	312	306	380	119
37.5	623	383	319	301	295	365	
40.0	600	365	305	289	283	350	
42.5	575	348	293	277	271	335	
45.0	548	331	279	264	258	319	123
47.5	520	313	265	250	243	302	
50.0	490	295	251	236	228	285	
52.5	458	276	236	221	214	267	
55.0	425	256	220	206	199	248	111
57.5	389	236	203	190	183	229	
60.0	351	215	186	174	168	208	
62.5	314	193	168	158	152	188	
65.0	276	171	151	141	136	167	83
67.5	240	149	133	125	120	147	
70.0	203	127	115	108	104	126	
72.5	168	105	97	91	88	105	
75.0	134	84	79	74	72	85	45
77.5	102	64	61	58	56	65	
80.0	73	46	45	42	42	47	
82.5	47	29	30	29	29	31	
85.0	26	16	16	17	17	18	11
87.5	10	5	6	8	8	7	
90.0	0	0	0	0	0	0	

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OPPOSITE SIDE TO BEAM
AVERAGE LUMINANCE DATA

CD./SQ.M (FOOTLAMBERTS)

ANGLE	ALONG	112.5	135	157.5	ACROSS
0	6757(1972)	6757(1972)	6757(1972)	6757(1972)	6757(1972)
30	6791(1982)	4383(1279)	3604(1052)	3329(971)	3264(952)
40	6744(1968)	4117(1201)	3435(1002)	3257(950)	3182(928)
45	6673(1947)	4039(1179)	3415(996)	3219(939)	3151(919)
50	6564(1915)	3969(1158)	3360(980)	3171(925)	3057(892)
55	6380(1862)	3851(1124)	3312(966)	3101(905)	2995(874)
60	6045(1764)	3706(1081)	3201(934)	3006(877)	2893(844)
65	5623(1641)	3485(1017)	3081(899)	2888(842)	2779(811)
70	5110(1491)	3211(937)	2903(847)	2719(793)	2610(762)
75	4458(1301)	2802(817)	2621(765)	2457(717)	2391(697)
80	3620(1056)	2265(661)	2220(648)	2105(614)	2062(602)
85	2568(749)	1536(448)	1624(474)	1685(492)	1676(489)

LUMINOUS LENGTH: 48.000 INS
WIDTH: 3.750 INS

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COEFFICIENTS OF UTILIZATION

ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE = .20

CC	90				80				70				50				30				10				0
WALL	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	.11	1.061	.061	.06	1.021	.021	.02	1.00			
1	1.131	.081	.041	.00	1.101	.061	.020	.99	1.071	.041	.000	.97	0.990	.960	.94	0.950	.930	.91	0.920	.900	.88	0.86			
2	1.040	.960	.900	.84	1.010	.940	.880	.83	0.990	.920	.860	.82	0.890	.840	.80	0.860	.820	.78	0.830	.790	.76	0.74			
3	0.950	.850	.770	.70	0.930	.830	.760	.70	0.910	.820	.750	.69	0.790	.730	.68	0.760	.710	.67	0.740	.700	.66	0.64			
4	0.880	.760	.670	.61	0.860	.750	.670	.60	0.840	.730	.660	.60	0.710	.640	.59	0.690	.630	.58	0.660	.620	.58	0.56			
5	0.810	.680	.590	.52	0.790	.670	.580	.52	0.760	.650	.570	.52	0.630	.560	.51	0.610	.550	.50	0.600	.540	.50	0.48			
6	0.740	.600	.510	.45	0.720	.590	.510	.45	0.700	.580	.500	.44	0.570	.500	.44	0.550	.490	.44	0.540	.480	.43	0.41			
7	0.680	.540	.450	.39	0.660	.530	.440	.39	0.650	.520	.440	.38	0.510	.430	.38	0.490	.420	.38	0.480	.420	.37	0.35			
8	0.630	.480	.400	.34	0.610	.480	.390	.34	0.600	.470	.390	.33	0.460	.380	.33	0.440	.380	.33	0.430	.370	.33	0.31			
9	0.580	.440	.350	.29	0.560	.430	.350	.29	0.550	.420	.350	.29	0.410	.340	.29	0.400	.330	.29	0.390	.330	.28	0.27			
10	0.530	.400	.310	.26	0.520	.390	.310	.26	0.510	.380	.310	.25	0.370	.300	.25	0.360	.300	.25	0.360	.290	.25	0.23			

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 39.0

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:	120.0	VOLTS AC
INPUT CURRENT:	0.327	AMPS
INPUT POWER:	39.0	WATTS
POWER FACTOR:	99.4	PERCENT
TOTAL HARMONIC DISTORTION:	2.55	PERCENT
OFF STATE POWER:	0.00	WATTS
INPUT VOLTAGE:	277.0	VOLTS AC
INPUT CURRENT:	0.159	AMPS
INPUT POWER:	38.9	WATTS
POWER FACTOR:	88.1	PERCENT
TOTAL HARMONIC DISTORTION:	16.67	PERCENT

LIGHT OUTPUT

LUMENS:	3064	lm
EFFICACY:	78.6	lm/W

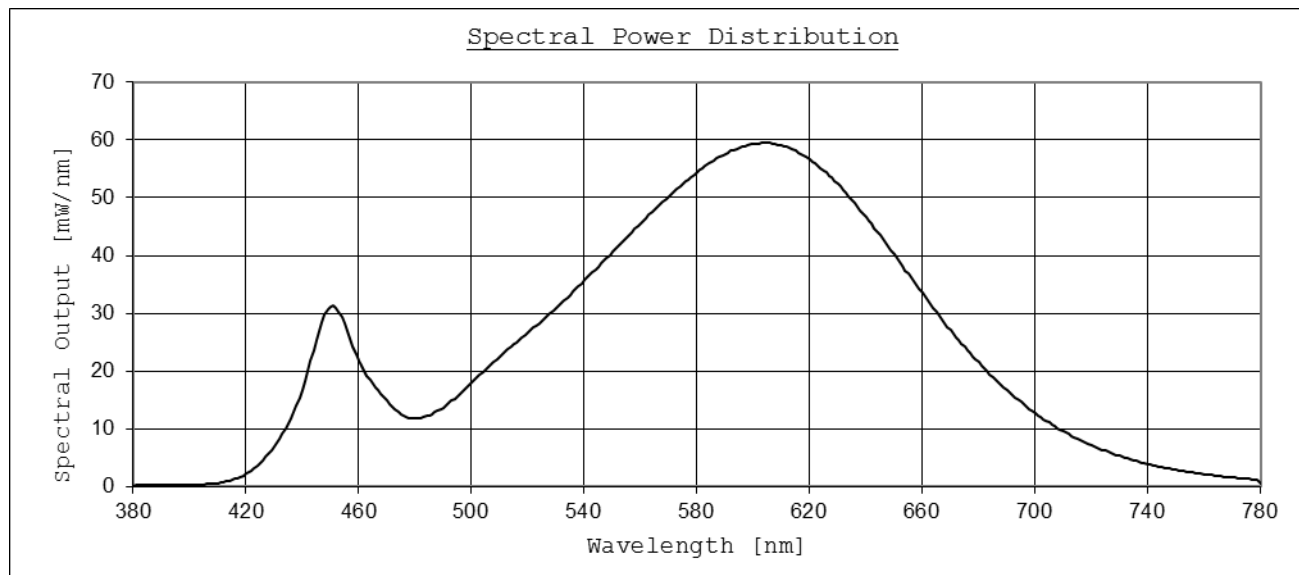
SPECTRAL MEASUREMENTS

X:	0.4351	
y:	0.4024	
u/u':	0.2501	
v:	0.3470	
v':	0.5204	
Duv:	0.0005	
CRI (R _a):	81.8	
CRI (R _g):	14.0	
CCT:	3016	K
RADIANT FLUX:	9624	mW

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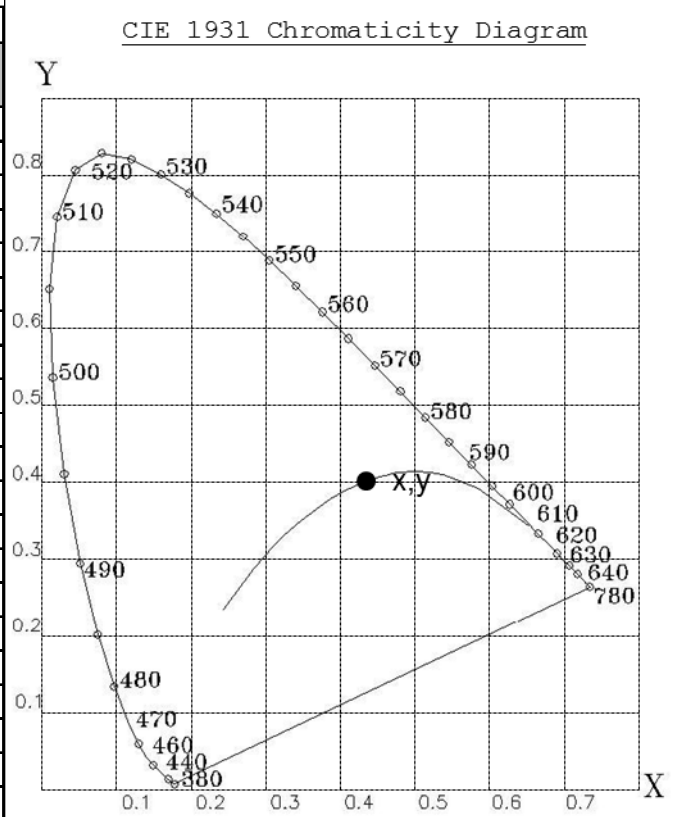
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Tabulated Spectral Power Distribution

Wavelength [nm]	[mW/nm]	Wavelength [nm]	[mW/nm]
380	0.17404	590	57.62875
390	0.28228	600	59.31124
400	0.32373	610	59.05876
410	0.63657	620	56.66917
420	2.22255	630	52.42074
430	6.92202	640	46.70241
440	16.79704	650	40.23545
450	31.19919	660	33.49158
460	21.89938	670	27.10542
470	14.87072	680	21.50929
480	11.77618	690	16.68169
490	13.71895	700	12.75225
500	18.02610	710	9.62685
510	22.56111	720	7.20108
520	26.64047	730	5.33726
530	30.88292	740	3.95436
540	35.70694	750	2.92378
550	40.62702	760	2.17781
560	45.57013	770	1.60862
570	50.22642	780	0.59444
580	54.36185		



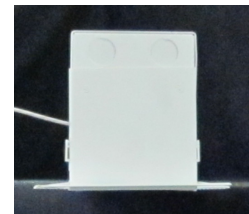
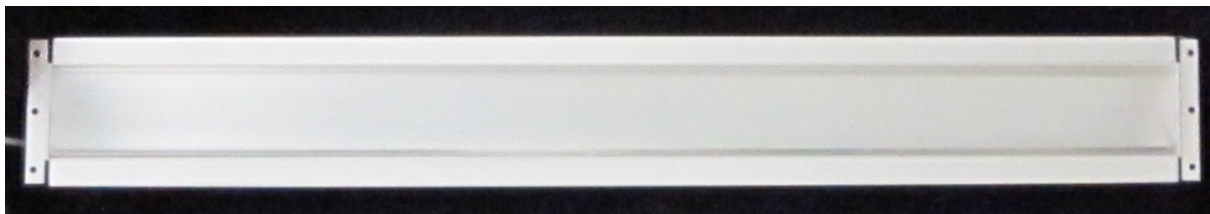
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LUMINOUS OPENING

SIDE VIEW



All testing was conducted in accordance with LM-79-08,

Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products as published by the Illuminating Engineering Society of North America (IESNA).

The condition of the item tested was new. Stabilization time before testing meets the stabilization requirements of LM-79-08.

The test results (luminous distribution and flux) were obtained by using a Lighting Sciences series 6000 Type C Moving Mirror Goniophotometer

The photometric reference standard used is a set of three incandescent luminous intensity standard lamps calibrated and traceable to the U.S. National Institute of Standards and Technology.

The test results (colorimetric and luminous flux) were obtained by using a Labsphere Model LMS-760 Integrating Sphere. 4 geometry was used. Correction factors were applied for self-absorption.

The colorimetric & photometric reference standard used is an incandescent spectral flux standard lamp calibrated and traceable to the U.S. National Institute of Standards and Technology.

Power measurements were obtained with a Yokogawa WT210 power analyzer.

Ambient temperature during testing was 25 C ± 1 C, measured using an Omega model DP460.

Calibration certificates are on file at the laboratories of Lighting Sciences Inc.

The results in this report apply to the test sample(s) mentioned in this report at the time of the testing period only and are not to be used to indicate applicability to other similar products.