



LED
Wall-PACK/FloodLight

DataSheet
Cat# 71392



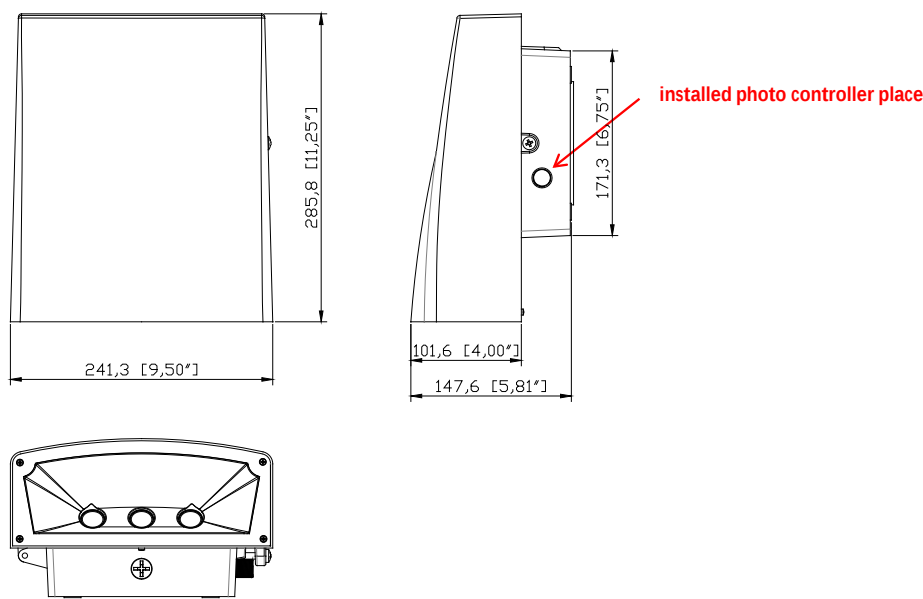
Wet Locations Use



Model :		71392
OVERALL LAMP PARAMETERS	Input Voltage	100-277VAC
	Input Current	0.47A @120V / 0.22A @277V
	Input Power	49 W
	Power Factor	PF≥0.95
	Luminance	4363 LM
	Luminous Efficiency	88 LM/W
	CRI	83
	Beam Angle	140°
	Main Structure	Alluminium + Tempered Glass
LED DRIVER	Output Voltage	38VDC
	Output Current	1.25A
	Driver Efficiency	87%
LED	LED Brand	CXA1512
	LED Quantity	3 PCS
	LED Manufacturer	Cree
	LED Efficacy	120 LM/W
	Color Temperature	WW/NW/PW/CW (5304K)
LIFESPAN & ENVIRONMENT	Lifespan	50000 Hrs.
	Warranty	5 Years
	IP Rating	IP54 Wet Locations
	Operating Temperature	-40F - +104F
	Storage Temperature.Humidity	-40F - +176F , 10—90% RH
SAFETY&EMC	Safety Norms	UL1598,UL8750, EN60598, EN61347-2-13, EN62031, EN62471
	Withstand Voltage	I/P-FG: 2121VDC
	Grounding Resistance	25A 100mΩ
	Electromagnetic Compatibility	EN55015, EN61000-2-3, EN61000-3-3, EN61547

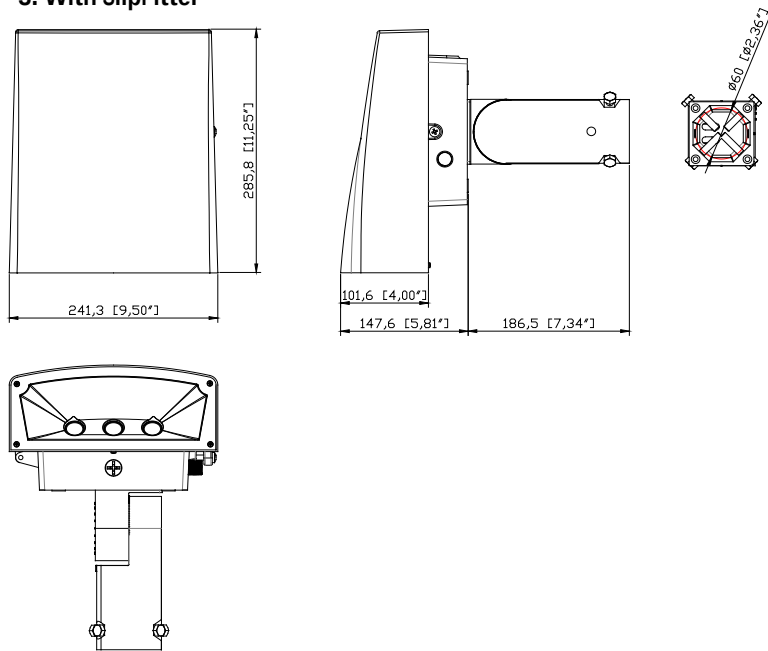
Dimension :

1. Direct to wall

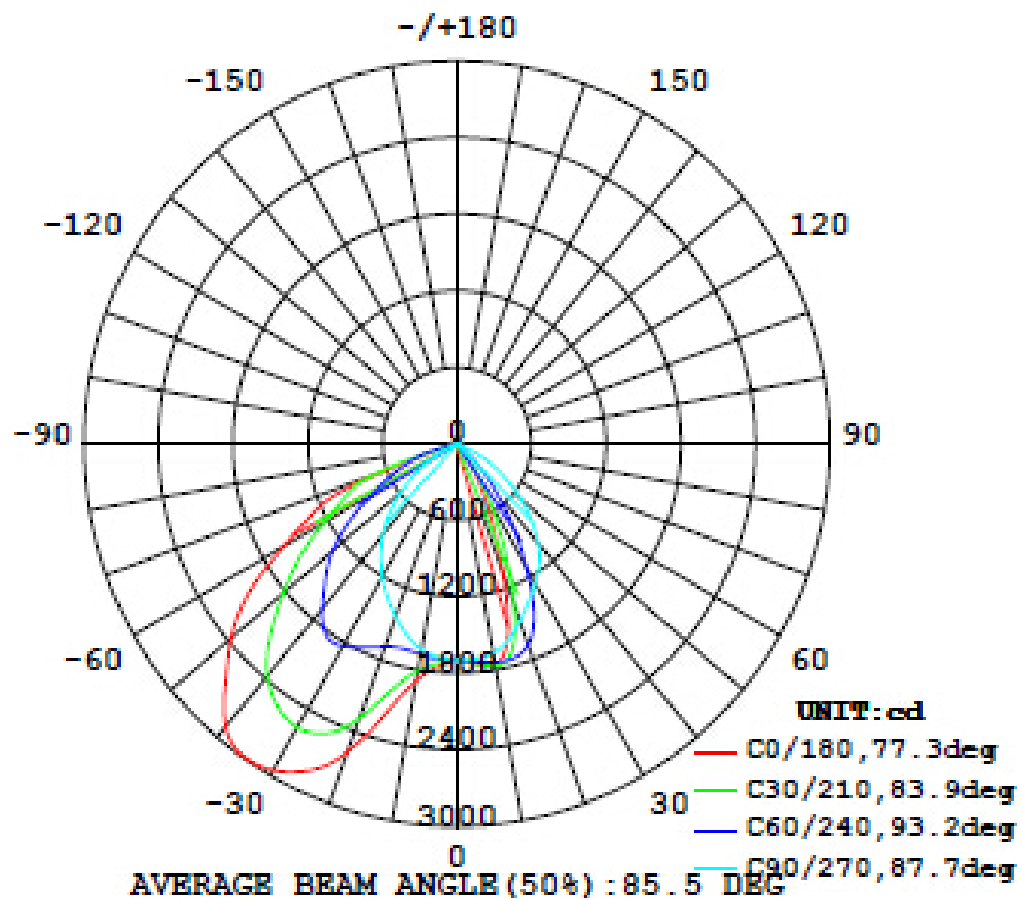


2. With Trunion

3. With SlipFitter



LUMINAIRE PHOTOMETRIC





NVLAP LAB CODE 201011-0

Report No.: GZE140709-H

LM-79-08 Test Report

For

Morris Products Inc.
53 Carey Rd.
Queensbury, NY 12804

Outdoor Wall-Mounted Area Luminaires

Model name(s): 71392

Representative (Tested) Model: 71392

Model Difference: All construction and rating are the same, except CCT

Test & Report By:

Sean Zhuo

Engineer: Sean Zhuo

Date: Jul.15,2014

Review By:

Tommy Liang

Manager: Tommy Liang

Note: This report does not imply product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

Laboratory: Standard-Tech Co. Ltd Testing Center

NVLAP CODE: 201011-0

Report Format Number STD/QR4909-A/2

Address: 8th floor, Block B, No. 11 Caipin Road, Guangzhou Science City, Tianhe, Guangzhou 510663, China

Tel: 8620-3229 0320

Fax: 8620-32290422

<http://www.standard-tech.com>

U.S. Department of Energy

Lighting Facts™ Uniform LM-79 Reporting Template

Laboratory Information:

Name of Test Laboratory	Standard-Tech Co. Ltd
Date of Test Report	Jul.15,2014
Test Report No.	GZE140709-H
Laboratory Contact Name	Tommy Liang

Product Information:

Organization Name	Morris Products Inc.	
Brand Name	Morris	
Model Number	71392	
SKU (if available)	N/A	
Type of Luminaire (for integral lamps, list base type and lamp type)	Outdoor Wall-Mounted Area Luminaires	
Luminaire Aperture (for downlights)	--	in.
Luminaire Length	--	mm
Luminaires Width	--	mm
Number of Units (modular products)	N/A	s

Integrating Sphere

Goniophotometer

Electrical Measurements:

Output

Output

Input Wattage	--	49.63	W
Input Current	--	0.4171	A
Input Voltage (ac)	--	120.1	V
Power Factor	--	0.9907	
Off-State Power	--	0	W

Photometric Characteristics

Total Initial Lumen Output	--	4183.0	lm
Initial Lumen Efficacy	--	84.28	lm/w
Correlated color temperature / CCT	3109	--	K
Color rendering index / CRI	84.0	--	
R9 Value	18	--	
Duv	-0.0022	--	
Luminous Intensity Distribution			
Center beam candlepower (if applicable)	-----	2917	cd
Beam angle (if applicable)		84.0	°
Zonal lumens in the 0°-60° zone		82.8	%
Zonal lumens in the 60°-90° zone		16.9	%
Zonal lumens in the 90°-120° zone		0.1	%
Zonal lumens in the 120°-180° zone		0.1	%

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Laboratory Information:

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Date of Test Report	Jul.15,2014
Test Report No.	GZE140709-H
Laboratory Contact Name	Tommy Liang

Product Information:

Organization Name	Morris Products	
Brand Name	Morris	
Model Number	71392	
SKU (if available)	N/A	
Type of Luminaire (for integral lamps, list base type and lamp type)	Outdoor Wall-Mounted Area Luminaires	
Luminaire Aperture (for downlights)	--	in.
Luminaire Length	--	mm
Luminaires Width	--	mm
Number of Units (modular products)	N/A	s

Integrating Sphere

Goniophotometer

Electrical Measurements:

Output

Output

Input Wattage	49.12	--	W
Input Current	0.4151	--	A
Input Voltage (ac)	120.1	--	V
Power Factor	0.9852	--	
Off-State Power	0	--	W

Photometric Characteristics

Total Initial Lumen Output	4363.6	--	lm
Initial Lumen Efficacy	88.83	--	lm/w
Correlated color temperature / CCT	5304	--	K
Color rendering index / CRI	83.7	--	
R9 Value	19	--	
Duv	0.0013	--	
Luminous Intensity Distribution			
Center beam candlepower (if applicable)	-----	--	
Beam angle (if applicable)		--	
Zonal lumens in the 0°-60° zone		--	
Zonal lumens in the 60°-90° zone		--	
Zonal lumens in the 90°-120° zone		--	
Zonal lumens in the 120°-180° zone		--	

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Test Specifications:	
Date of Receipt	: Jul.14,2014
Date of Test	: Jul.11,2014
Test item	: Total Luminous Flux, Luminous Distribution Intensity, Luminous Efficacy, Correlated Color Temperature, Color Rendering Index, Chromaticity Coordinate, Electrical parameters
Reference Standard	IES LM-79-2008 Electrical and Photometric Measurements of Solid-State Lighting Products ANSI C78.377-2008 Specifications for the Chromaticity of Solid State Lighting Products CIE 13.3-1995 Method of Measuring and Specifying Colour Rendering Properties of Light Sources CIE 15-2004 Technical Report Colorimetry IESNA LM-16-93 Practical Guide to Colorimetry of Light Source IESNA TM-16-05 Technical Memorandum on Light Emitting Diode (LED) Sources and Systems
Reference Work Instruction	QD25

Test Methods

1. Photometric and Electrical measurements – Light Distribution Method:

Photometric parameters were measured using the goniophotometer and software. The ambient temperature shall be maintained at $25^{\circ}\text{C} \pm 1^{\circ}\text{C}$, measured at a point not more than 1 m from the sample and at the same height as the sample. The sample was operated at 120 Volts AC, 60Hz. It was stabilized before measurement was made. Luminous flux, luminaire efficacy, zonal lumen were calculated from the software taken at 1° vertical intervals and 22.5° horizontal intervals.

2. Photometric and Electrical Measurements – Integrating Sphere Method:

Photometric parameters were measured using an integrating sphere, a spectroradiometer and software. The ambient temperature condition inside the sphere was maintained at $25^{\circ}\text{C} \pm 1^{\circ}\text{C}$. The sample measurements were made using a spectroradiometer connected by a fiber optic cable and detector through the detector port of the integrating sphere. The sample was operated at 120 Volts AC, 60Hz. It was stabilized before measurement was made. Chromaticity coordinates, correlated color temperature and color rendering index were calculated from the spectral radiant flux measurements taken at least 5 nm intervals over the range of 380 to 780 nm.

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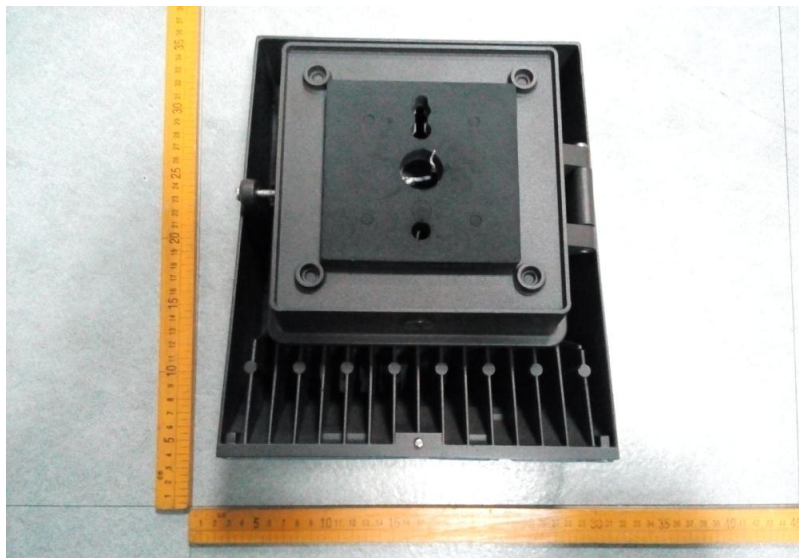
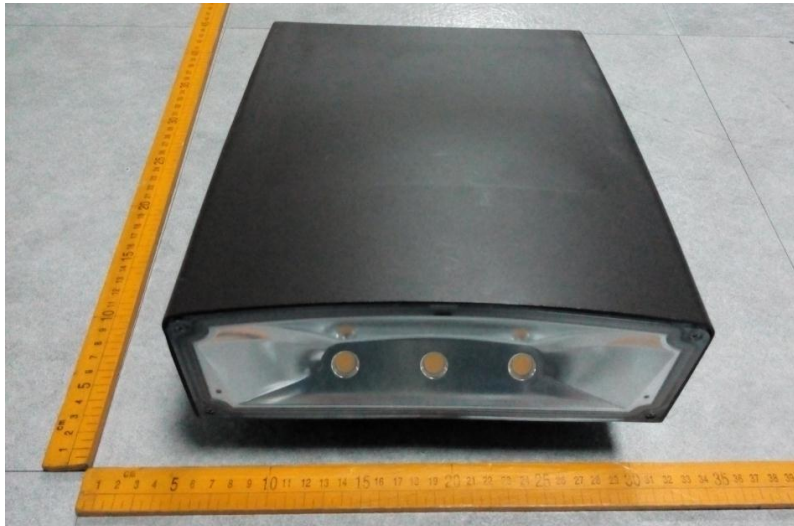
Fax: 8620-32290422

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1. Product Information:

Brand Name	Morris
Model Number	71392
Luminaire Type	Outdoor Wall-Mounted Area Luminaires
Rated Voltage / Frequency	100 ~ 277 Vac, 50/60 Hz
Nominal Power	50W
Rated Initial Lamp Lumen	--
Declared CCT	5000K
LED Manufacturer	CREE
LED Model	CXA1512
Sample Receipt Date	Jul.11,2014
Sample Number	140709-23(3000K),24(5000K)

Photo



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2.1 Electrical, Photometric and Chromaticity Measurements (Refer to Work Instruction QD25)	IES LM-79 2008
--	-----------------------

Test date	2014-07-14	Test Ambient:	25.2 ° C
Test Orientation	Wall mounted	Stabilization Time (min)	90
Model Number	71392		

Electrical Measurement:

Sample No.	Voltage (Vac)	Frequency (Hz)	Current (A)	Power (W)	Power Factor	THD %
140709-23	120.1	60	0.4171	49.63	0.9907	5.26
	277.0	60	0.2034	50.76	0.9010	17.35

Sphere-Spectroradiometer Method:

Parameter	Result
Test Voltage (V)	120.0
Frequency (Hz)	60
Color Rendering Index (CRI)	84.0
R9	18
CCT (K)	3109
Chromaticity (x, y)	x=0.4264 y=0.3949
Chromaticity (u', v')	u'=0.2477 v'=0.5162
Duv	-0.0022

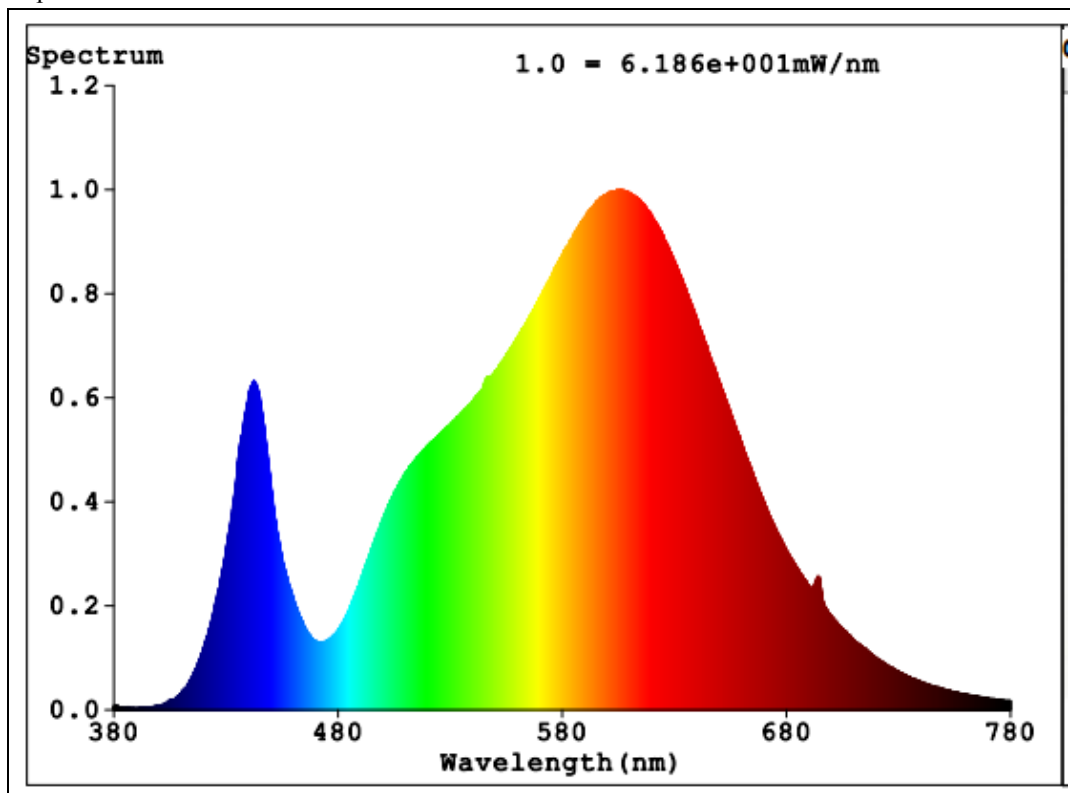
Special Color Rendering Indices			
R1	83	R9	18
R2	89	R10	76
R3	95	R11	85
R4	84	R12	76
R5	83	R13	84
R6	87	R14	97
R7	85	R15	77
R8	65	--	--

Goniophotometer Method:

Parameter	Result
Test Voltage (V)	120.1
Frequency (Hz)	60
Total Luminous (lm)	4183.0
Luminous Efficacy (lm/W)	84.28
Beam Angle°	84.0
Center Beam Candle Power (cd)	2917
S/MH(C0/180)	1.13
S/MH(C90/270)	0.58

Spectral Power Distribution

Spectral Power Distribution:



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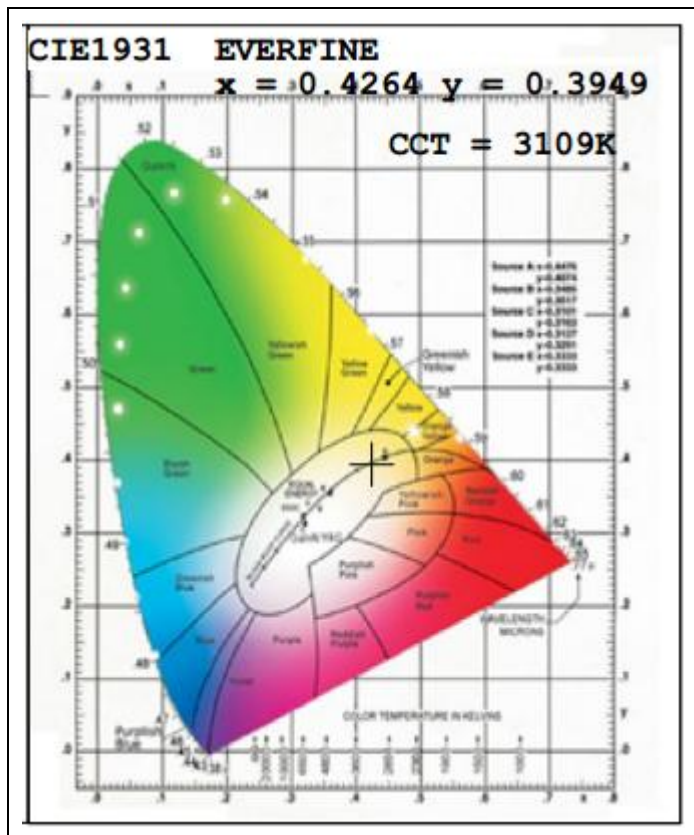
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Chromaticity Diagram



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Zonal Lumen Tabulation

Zonal Lumen Summary			
Zone	Lumens	% Lamp	% Luminaire
0-30	1,184.3	28.3%	28.3%
0-40	1,957.5	46.8%	46.8%
0-60	3,464.5	82.8%	82.8%
60-90	708.9	16.9%	16.9%
70-100	229.3	5.5%	5.5%
90-120	2.7	0.1%	0.1%
0-90	4,173.5	99.8%	99.8%
90-180	9.6	0.2%	0.2%
0-180	4,183.1	100%	100%

Lumens Per Zone					
Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	149.6	3.6%	90-100	0.5	0%
10-20	411.6	9.8%	100-110	0.9	0%
20-30	623.1	14.9%	110-120	1.3	0%
30-40	773.2	18.5%	120-130	1.5	0%
40-50	814.6	19.5%	130-140	1.6	0%
50-60	692.5	16.6%	140-150	1.5	0%
60-70	480.2	11.5%	150-160	1.2	0%
70-80	216.8	5.2%	160-170	0.8	0%
80-90	12.0	0.3%	170-180	0.3	0%

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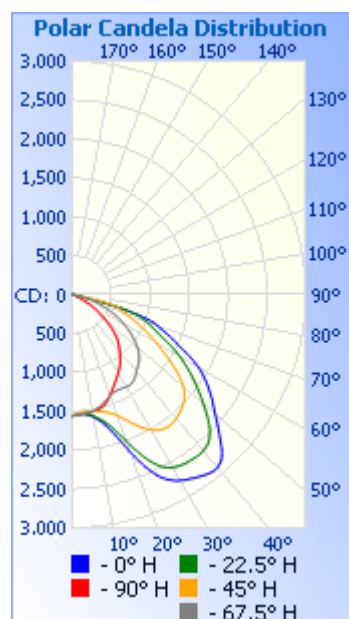
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Photometric Data

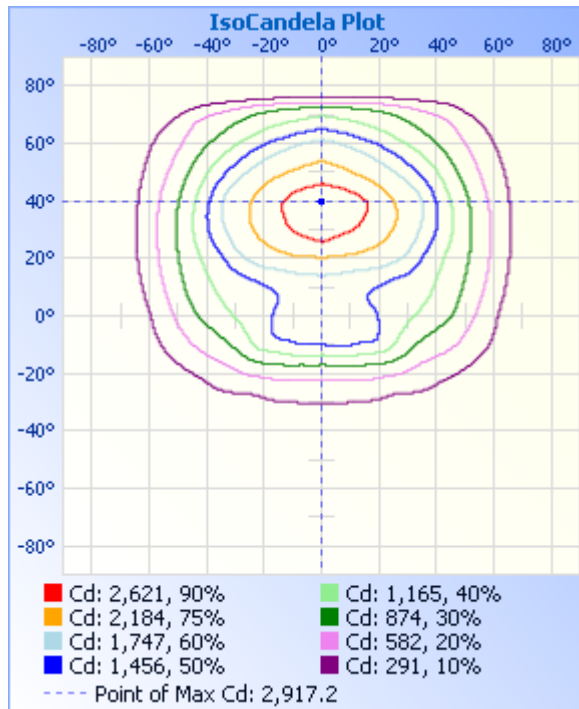


Illuminance Plots

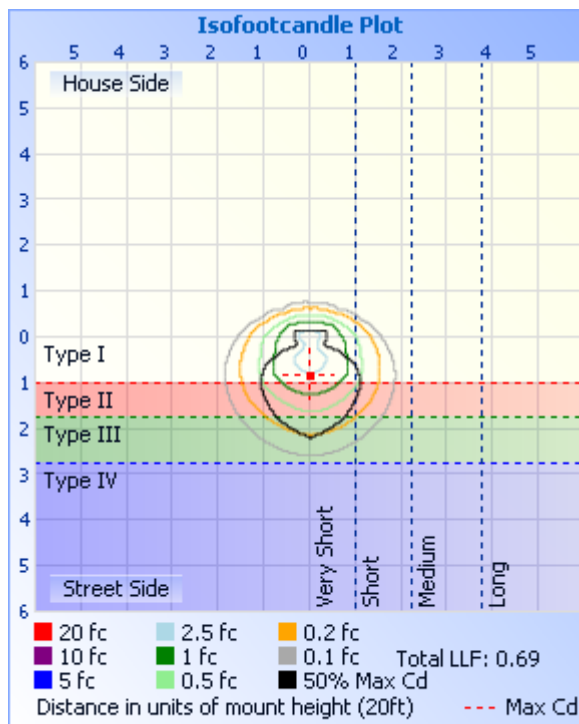
Illuminance at a Distance			
	Center Beam fc	Beam Width	
17.0ft	5.42 fc	26.1 ft	28.0 ft
34.0ft	1.36 fc	52.1 ft	56.0 ft
51.0ft	0.60 fc	78.2 ft	83.9 ft
68.0ft	0.34 fc	104.3 ft	111.9 ft
85.0ft	0.22 fc	130.4 ft	139.9 ft
102.0ft	0.15 fc	156.4 ft	167.9 ft

■ Vert. Spread: 75.0°
■ Horiz. Spread: 78.9°

ISOCANDELA DIAGRAM



ISOLUX DIAGRAM



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Candela Table - Type C

	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5	360
0	1567	1567	1567	1567	1567	1567	1567	1567	1567	1567	1567	1567	1567	1567	1567	1567	1567
1	1557	1556	1555	1560	1561	1572	1575	1579	1581	1581	1581	1576	1573	1561	1558	1556	1557
2	1548	1549	1544	1554	1556	1576	1583	1590	1593	1597	1596	1585	1580	1556	1552	1547	1548
3	1545	1544	1535	1549	1551	1580	1588	1599	1605	1611	1611	1596	1586	1551	1545	1541	1545
4	1544	1542	1528	1545	1548	1583	1592	1608	1613	1622	1623	1605	1591	1546	1539	1538	1544
5	1545	1542	1524	1543	1545	1583	1595	1607	1614	1629	1632	1615	1597	1540	1535	1538	1545
6	1551	1546	1521	1541	1544	1584	1594	1600	1603	1628	1641	1624	1601	1534	1531	1541	1551
7	1560	1555	1520	1537	1541	1583	1591	1584	1581	1616	1644	1632	1604	1529	1530	1546	1560
8	1573	1564	1521	1534	1539	1581	1582	1557	1546	1593	1640	1638	1606	1525	1527	1555	1573
9	1586	1577	1525	1530	1538	1578	1570	1520	1495	1555	1630	1643	1606	1520	1524	1567	1586
10	1606	1594	1530	1524	1534	1574	1552	1471	1430	1507	1612	1645	1605	1514	1525	1580	1606
11	1628	1613	1535	1517	1532	1569	1527	1412	1354	1444	1583	1644	1600	1509	1527	1595	1628
12	1655	1633	1541	1507	1526	1562	1497	1342	1268	1369	1548	1640	1595	1500	1529	1614	1655
13	1688	1659	1549	1495	1520	1551	1460	1263	1175	1285	1499	1632	1585	1492	1532	1636	1688
14	1728	1687	1556	1481	1510	1540	1415	1178	1082	1196	1444	1621	1572	1480	1537	1663	1728
15	1773	1721	1567	1469	1499	1527	1362	1092	992	1107	1381	1608	1557	1467	1545	1697	1773
16	1830	1761	1577	1455	1484	1511	1301	1007	908	1020	1313	1587	1538	1452	1556	1736	1830
17	1898	1810	1591	1440	1467	1492	1236	927	831	938	1244	1565	1514	1438	1570	1782	1898
18	1972	1867	1608	1424	1446	1470	1165	851	762	864	1172	1539	1489	1424	1589	1836	1972
19	2056	1929	1629	1411	1423	1443	1093	781	703	795	1102	1509	1463	1409	1611	1897	2056
20	2146	2000	1654	1399	1399	1413	1022	721	651	732	1035	1476	1436	1395	1639	1966	2146
21	2238	2076	1684	1387	1374	1380	952	668	605	677	971	1438	1409	1384	1672	2039	2238
22	2329	2153	1715	1378	1349	1342	889	621	564	627	910	1397	1384	1374	1709	2114	2329
23	2415	2231	1754	1370	1325	1302	831	578	526	581	853	1350	1361	1367	1749	2190	2415
24	2495	2304	1792	1366	1302	1259	778	540	490	538	799	1298	1338	1362	1792	2263	2495
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28	2710	2522	1949	1368	1217	1045	592	403	354	396	590	1060	1247	1359	1954	2486	2710
29	2745	2551	1983	1373	1197	986	549	367	320	363	542	1001	1224	1364	1987	2523	2745

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30	2769	2576	2013	1378	1177	928	507	332	285	330	496	942	1200	1370	2015	2557	2769
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32	2811	2604	2064	1382	1138	820	425	264	221	269	413	830	1156	1385	2065	2603	2811
33	2829	2614	2081	1381	1118	769	383	234	192	241	375	777	1136	1391	2081	2623	2829
34	2848	2620	2094	1375	1095	721	344	206	167	214	341	725	1115	1395	2094	2636	2848
35	2865	2624	2100	1365	1072	676	308	180	145	189	309	678	1096	1391	2102	2647	2865
36	2883	2627	2104	1354	1048	634	275	157	130	165	279	632	1076	1381	2106	2659	2883
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53	2259	2027	1713	1016	528	78	62	71	77	78	64	88	576	1033	1703	1965	2259
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55	2157	1908	1580	949	452	50	56	65	72	70	60	56	503	979	1571	1849	2157
56	2107	1850	1511	915	417	43	53	61	70	67	58	47	466	950	1501	1792	2107
57	2056	1790	1443	881	384	39	50	58	67	63	56	40	433	919	1435	1733	2056
58	2000	1728	1377	847	351	35	47	55	64	59	54	36	400	886	1371	1674	2000
59	1943	1665	1316	812	318	32	45	52	61	56	52	33	368	853	1312	1616	1943
60	1880	1607	1256	777	282	29	42	49	58	52	49	30	331	821	1255	1557	1880
61	1808	1542	1198	744	246	26	39	46	55	49	46	28	288	786	1201	1501	1808

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62	1727	1469	1141	709	211	25	36	42	52	45	43	26	248	751	1148	1439	1727
63	1640	1394	1089	672	180	23	34	39	49	42	40	24	213	713	1095	1370	1640
64	1558	1321	1037	633	153	21	31	37	45	39	37	22	182	670	1044	1300	1558
65	1486	1256	984	592	130	19	29	34	42	36	34	20	152	630	991	1238	1486
66	1420	1202	932	550	109	18	27	31	39	33	31	18	126	586	938	1186	1420
67	1352	1153	881	507	90	16	25	29	36	30	28	17	104	541	891	1143	1352
68	1287	1105	832	466	72	15	23	26	33	28	26	16	85	499	844	1104	1287
69	1224	1059	788	426	57	14	21	24	30	26	24	15	67	460	802	1062	1224
70	1166	1011	747	388	43	13	19	22	28	23	22	14	52	421	763	1019	1166
71	1106	971	707	355	34	12	18	20	26	21	20	13	40	386	724	975	1106
72	1025	920	672	323	26	11	16	18	23	19	18	12	30	354	685	931	1025
73	882	847	643	295	21	11	15	17	21	18	16	11	23	320	649	873	882
74	700	731	611	266	18	10	14	15	19	16	15	10	18	288	608	780	700
75	505	572	567	233	16	9	13	14	17	15	14	10	15	255	572	635	505
76	323	406	500	195	14	8	11	13	15	13	12	9	14	213	530	470	323
77	163	250	397	154	13	8	10	11	13	12	11	8	12	170	460	310	163
78	76	133	282	120	11	7	9	10	11	10	10	7	11	135	366	173	76
79	51	72	176	103	10	6	8	9	9	9	9	7	10	111	255	91	51
80	42	49	98	85	9	6	7	8	8	8	8	6	9	99	152	57	42
81	36	36	50	60	8	5	6	6	6	7	7	5	8	80	81	40	36
82	29	28	27	34	7	4	5	5	5	5	6	5	7	56	40	30	29
83	24	23	19	17	6	4	4	4	4	4	5	4	6	33	24	25	24
84	20	19	15	10	5	3	3	3	3	3	4	3	5	19	17	20	20
85	17	15	12	8	4	2	2	2	2	2	3	3	4	10	14	16	17
86	13	12	9	6	3	1	1	1	1	1	2	2	4	7	11	13	13
87	10	9	7	4	2	1	1	1	1	1	1	1	3	6	8	10	10
88	7	6	4	2	1	0	1	1	1	1	1	1	2	4	6	7	7
89	4	3	2	1	0	0	1	1	0	1	1	0	1	2	4	4	4
90	2	1	1	0	0	0	1	1	1	1	1	0	0	1	2	2	2
91	1	1	0	0	0	0	1	1	1	1	1	0	0	0	1	1	1
92	1	1	0	0	0	0	1	1	1	1	1	0	0	0	1	1	1
93	1	1	0	0	0	0	1	1	1	1	1	0	0	0	0	1	1

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94	1	1	0	0	0	0	1	1	1	1	1	0	0	0	0	1	1
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96	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0
97	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0
98	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0
99	0	0	0	0	0	1	1	2	1	1	1	0	0	0	0	0	0
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101	1	0	0	0	0	1	1	2	2	2	1	1	0	0	0	0	1
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105	0	0	0	0	0	1	2	2	3	2	2	1	0	0	0	0	0
106	0	0	0	0	0	1	2	3	3	3	2	1	0	0	0	0	0
107	0	0	0	0	0	1	2	3	3	3	2	1	0	0	0	0	0
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111	0	0	0	0	1	1	2	3	3	3	2	1	0	0	0	0	0
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114	0	0	0	0	1	2	3	3	4	3	3	2	0	0	0	0	0
115	0	0	0	0	1	2	3	3	4	3	3	2	0	0	0	0	0
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126	0	0	0	0	2	2	3	4	5	4	3	2	1	0	0	0	0
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129	0	0	0	0	2	2	4	5	5	5	3	2	1	0	0	0	0
130	0	0	0	0	2	2	4	5	5	5	4	2	1	0	0	0	0
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180	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4

2.2 Electrical, Photometric and Chromaticity Measurements

(Refer to Work Instruction QD25)

IES LM-79 2008

Test date	2014-07-14	Test Ambient:	25.2 ° C
Test Orientation	Wall mounted	Stabilization Time (min)	90
Model Number	TL-WMB501-02(5000K)		

Electrical Measurement:

Sample No.	Voltage (Vac)	Frequency (Hz)	Current (A)	Power (W)	Power Factor	THD %
140709-24	120.1	60	0.4151	49.12	0.9852	14.97
	277.0	60	0.1984	49.77	0.9055	17.77

Sphere-Spectroradiometer Method:

Parameter	Result
Test Voltage (V)	120.0
Frequency (Hz)	60
Color Rendering Index (CRI)	83.7
R9	19
CCT (K)	5304
Chromaticity (x, y)	x=0.3372 y=0.3476
Chromaticity (u', v')	u'=0.2076 v'=0.4815
Duv	0.0013
Total Luminous (lm)	4363.6
Luminous Efficacy (lm/W)	88.83

Special Color Rendering Indices			
R1	83	R9	19
R2	87	R10	68
R3	89	R11	85
R4	85	R12	65
R5	84	R13	83
R6	82	R14	94
R7	88	R15	79
R8	73	--	--

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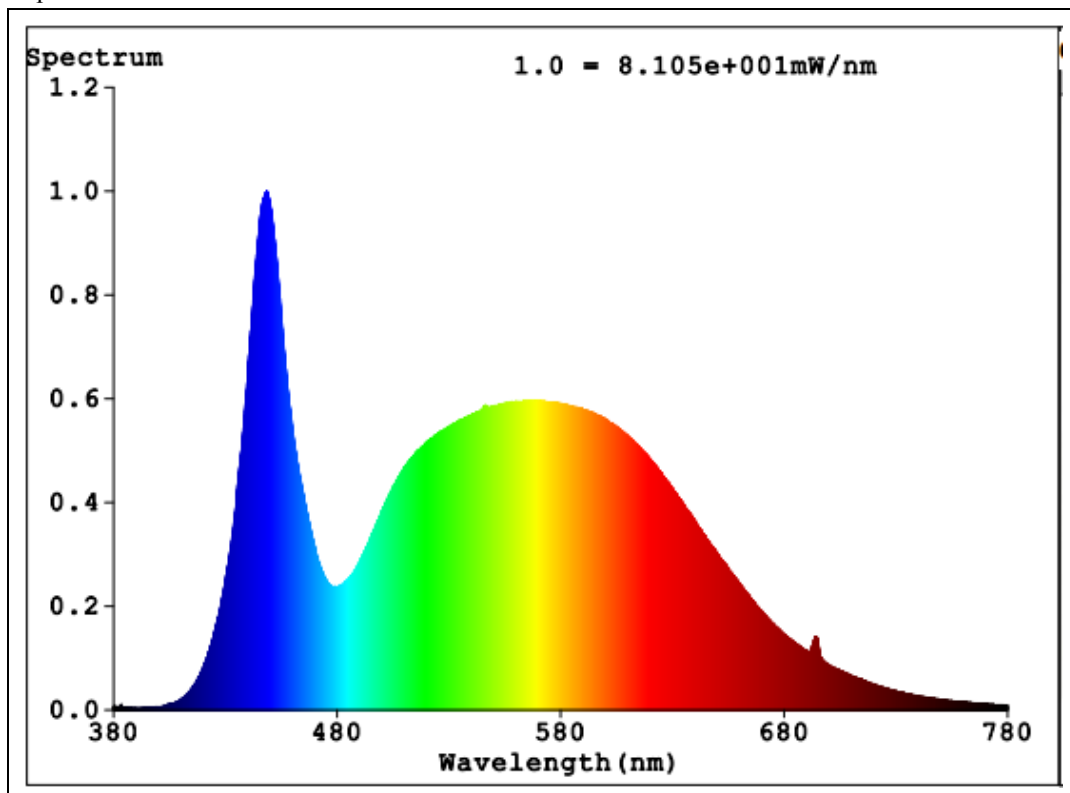
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Spectral Power Distribution

Spectral Power Distribution:



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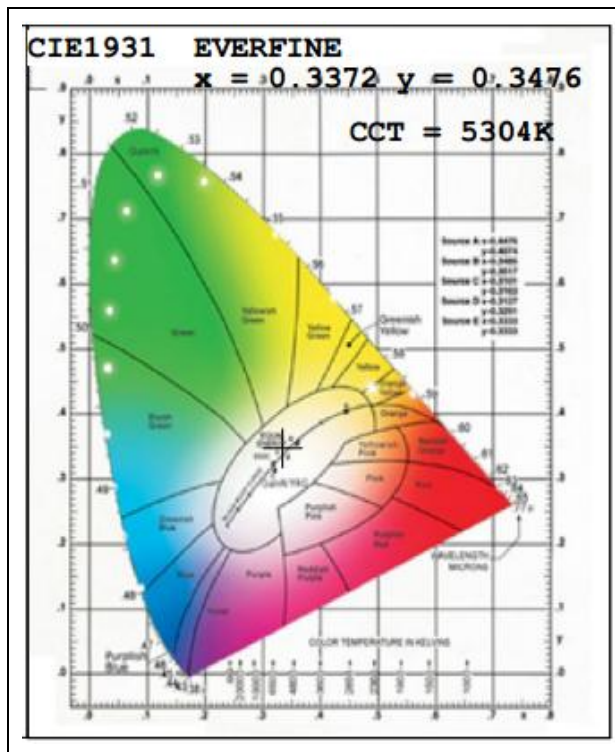
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Chromaticity Diagram



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3. Test Equipment

Equipment ID	Equipment Name	Last Calibration Date	Next Calibration Date
ST-R-336	2 meter Integrating Sphere	2014-07-01	2015-06-30
ST-R-331	Spectral analysis system HAAS-2000	2014-07-01	2015-06-30
D204	Standard Lamp	2014-07-01	2015-06-30
PF2010	Power Meter for Integrating Sphere	2014-07-01	2015-06-30
EE-09	Goniophotometer system	2014-07-01	2015-06-30
D908S	Standard Lamp	2014-07-01	2015-06-30
PF210	Power Meter for Goniophotometer	2014-07-01	2015-06-30
ST-R-181A	Temperature Tester	2014-07-01	2015-06-30

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