



## LM-79 Distribution Test Report (Luminaire)

Total Luminous Flux, Luminous Intensity Distribution and  
Electrical Characteristics of Customer Submitted Luminaire

Report No.: PHM-RPT-230130-02A  
Date: January 30, 2023

### LM-79 Distribution Testing: Total Luminous Flux, Luminous Intensity Distribution, Electrical Characteristics and Efficacy.

Report Prepared for:

Vantage Lighting  
181 Narragansett Park Drive  
East Providence, RI 02916  
USA  
Telephone: (860) 564-4512

Description: 2" ADJUSTABLE DOWNLIGHT  
Model Tested: V2.5CRRADJ MAXTILT  
WO/PO#: X0026/ PO24123

Report Issue Date: January 30, 2023

Date of Test(s): Jan. 27 – Jan. 30, 2023

Total Number of Pages: 9 (including this page)

Report Reviewed by:

**Mark Razvi**  
Photometric Lab Supervisor  
Bureau Veritas



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### DETAILED PRODUCT DESCRIPTION

**Model #** V2.5CRRADJ MAXTILT  
**PO#** PO24123  
**Description** 2" ADJUSTABLE DOWNLIGHT  
**Supply Voltage** 120VAC

### Pictures:





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### Bureau Veritas Photometric Testing Information

Photometric Testing is performed in accordance with the procedures outlined in LM-79-2008. The test sample is evaluated for photometric and electrical characteristics using the equipment listed below.

### Bureau Veritas Environmental Testing Info

Bureau Veritas testing laboratory temperature during testing: 24.8 °C.

### LIST OF EQUIPMENT USED:

Description	Model No.	Serial No.	Asset No	Cal. Date	Cal. Due
Yokogawa Power Meter	WT-310E	C2SK10001V	2360	04-12-22	04-12-23
Chroma AC Power Supply	61602	616020003157	2359	04-12-22	04-12-23
LabSphere Type-C Rotating Mirror Goniometer	P-9801	213A	2398	05-03-22	05-03-23
Digital Multimeter	Fluke 115	3442002WS	2363	04-12-22	04-12-23
Digital Thermometer	4627	160348597	2383	04-12-22	04-12-23

*This technical report may only be quoted in full. Any use for advertising purposes must be granted in writing. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production.*



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### LM-79-2008 Distribution Test Data

**Model #** V2.5CRRADJ MAXTILT  
**PO#** PO24123  
**Description** 2" ADJUSTABLE DOWNLIGHT  
**Supply Voltage** 120VAC

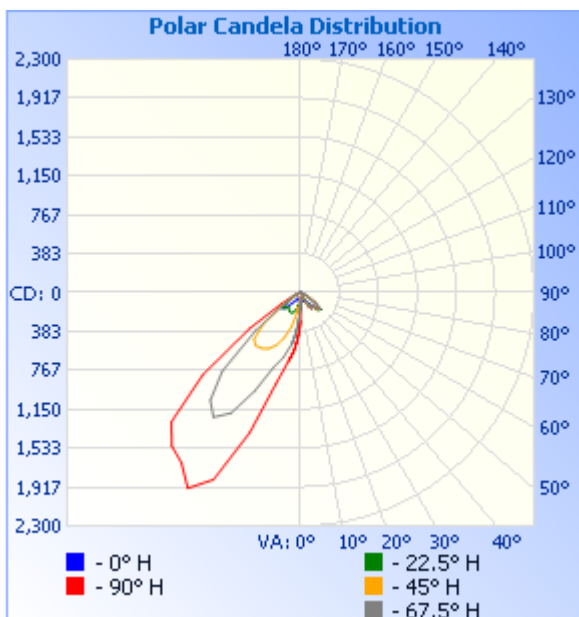
### Result of Tests

#### Photometric and Electrical Test Data

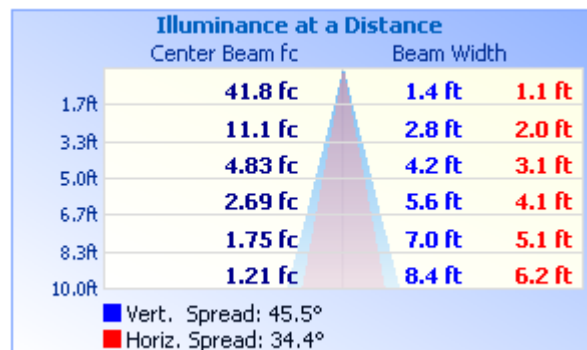
Input Voltage: 120 VAC  
Base Orientation: Base Up

Lumens (lm)	Watts (W)	Volts (VAC)	Amps (A)	Efficacy	PF	lthd (%)
1269.4	13.50	120.26	0.11	94.02	0.9829	0.10

Luminous Intensity Summary: Cd



Illumination Cone of Light  
Mounting Ht: 10 ft.



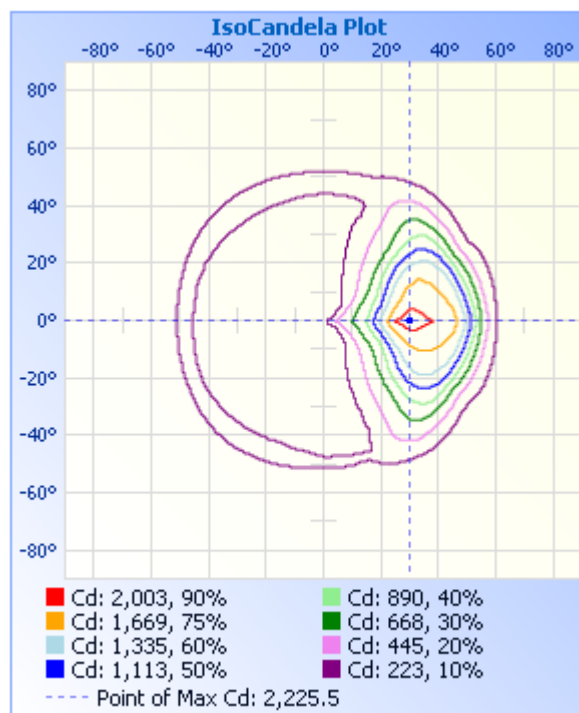


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IsoCandela Plot



### Zonal Lumens Summary

Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	282.4	22.2%
0-40	608.6	47.9%
0-60	1,171.6	92.3%
60-90	75.3	5.9%
70-100	26.6	2.1%
90-120	10.4	0.8%
0-90	1,246.9	98.2%
90-180	22.5	1.8%
0-180	1,269.4	100%

### Lumens per Zone

Lumens Per Zone					
Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	15.4	1.2%	90-100	3.7	0.3%
10-20	72.6	5.7%	100-110	3.4	0.3%
20-30	194.4	15.3%	110-120	3.3	0.3%
30-40	326.2	25.7%	120-130	3.2	0.3%
40-50	362.0	28.5%	130-140	3.1	0.2%
50-60	201.0	15.8%	140-150	2.6	0.2%
60-70	52.4	4.1%	150-160	1.9	0.1%
70-80	15.7	1.2%	160-170	1.1	0.1%
80-90	7.2	0.6%	170-180	0.4	0%



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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	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121
0.1	88	97	112	138	161	147	128	112	94	70	59	136	280	200	67	73	91
0.2	88	96	110	136	159	144	126	111	94	71	59	139	285	203	67	74	91
0.3	88	95	109	133	157	142	124	110	93	71	60	142	290	208	68	74	91
0.4	88	95	107	131	155	139	123	109	93	72	60	145	294	213	69	74	91
0.5	89	94	106	129	153	136	121	109	93	72	60	148	299	217	70	75	91
0.6	89	94	105	126	151	133	119	108	93	72	61	151	304	222	71	75	91
0.7	89	93	103	124	149	130	117	107	93	73	62	154	310	227	72	76	91
0.8	89	92	102	122	148	127	115	106	93	73	62	157	316	232	72	76	91
0.9	89	92	100	119	146	125	113	105	93	74	63	160	321	237	73	77	92
1	89	91	99	117	144	123	112	104	93	74	64	163	327	241	74	77	92
1.1	89	90	97	115	142	120	110	103	93	74	64	166	333	246	75	78	92
1.2	90	90	96	112	140	118	108	102	93	75	65	169	338	251	76	79	92
1.3	90	89	94	110	138	116	106	102	93	75	66	172	343	256	77	79	92
1.4	90	88	93	108	136	114	104	101	92	76	66	175	348	260	78	80	92
1.5	90	88	91	105	134	112	102	100	92	76	67	178	353	263	78	81	92
1.6	90	87	90	103	132	110	100	99	92	76	68	181	358	266	79	81	92
1.7	90	87	88	101	130	108	99	98	92	77	68	184	363	269	80	82	92
1.8	90	86	87	98	128	106	97	97	92	78	69	187	368	271	81	82	92
1.9	90	85	86	96	126	104	96	96	92	78	70	190	373	274	82	83	92
2	90	85	85	94	124	102	95	95	92	79	70	193	377	277	83	84	92
2.1	90	84	84	91	122	100	93	94	92	80	71	196	382	280	84	84	92
2.2	90	83	83	89	120	98	92	94	92	80	72	201	387	282	84	85	92
2.3	90	83	83	87	119	96	91	93	92	81	72	205	392	287	86	86	92
2.4	90	82	82	85	117	94	90	92	92	82	73	208	397	292	87	86	92
2.5	90	81	81	84	115	92	88	91	92	82	73	212	401	297	89	87	92
2.6	90	81	80	83	113	90	87	91	91	83	74	216	406	302	90	88	92
2.7	90	80	79	82	111	88	86	90	91	84	76	220	410	307	92	88	93
2.8	90	79	78	81	109	85	85	89	91	84	77	223	414	312	93	89	92
2.9	90	79	78	80	107	84	83	88	91	85	78	227	418	316	95	90	92
3	90	79	77	78	105	83	82	88	91	86	79	231	422	321	96	90	92
3.1	90	78	76	77	103	82	81	87	91	86	80	235	427	326	98	91	92
3.2	90	78	75	76	101	81	80	86	91	87	81	238	431	331	99	92	92
3.3	90	77	74	75	99	80	78	85	91	88	82	242	436	336	101	93	92
3.4	90	77	73	74	97	78	77	84	91	88	84	246	441	341	102	94	92



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3.5	90	77	72	73	95	77	76	84	91	89	85	250	446	345	103	94	92
3.6	90	76	72	72	93	76	75	83	91	89	86	254	451	350	105	95	92
3.7	90	76	71	71	91	75	74	82	90	90	87	257	455	354	106	96	92
3.8	90	75	70	70	90	74	73	81	90	91	88	261	460	359	108	97	92
3.9	90	75	69	69	88	73	72	81	90	91	89	265	465	363	109	97	92
4	90	75	69	68	86	72	71	80	90	92	90	269	470	367	111	98	92
4.1	90	74	68	67	84	70	71	79	90	93	92	273	475	371	112	99	92
4.2	90	74	68	66	82	69	70	79	90	93	93	277	480	376	114	100	92
4.3	90	73	67	65	80	68	69	78	90	94	94	282	485	380	116	100	92
4.4	90	73	66	64	78	67	69	78	90	95	95	286	489	384	118	101	92
4.5	90	73	66	63	76	66	68	77	90	95	96	291	493	389	120	102	92
4.6	90	72	65	63	74	65	67	76	90	96	98	295	496	393	121	103	92
4.7	90	72	65	62	72	64	67	76	90	96	100	299	500	397	123	104	92
4.8	90	71	64	62	70	62	66	75	90	97	102	304	504	401	125	104	92
4.9	90	71	64	61	68	62	65	75	89	98	103	308	507	406	127	105	91
5	89	71	63	60	66	61	65	74	89	98	105	313	511	410	129	106	91
5.1	90	70	63	60	64	61	64	74	89	99	107	317	515	414	131	107	91
5.2	90	70	62	59	62	60	63	73	89	100	109	321	519	419	133	108	91
5.3	90	69	61	59	60	59	63	73	89	100	111	326	523	423	135	109	91
5.4	89	69	61	58	59	59	62	72	89	101	112	330	527	427	137	110	91
5.5	89	69	60	57	57	58	61	72	89	102	114	335	532	432	139	111	91
5.6	89	68	60	57	56	58	61	71	89	103	116	339	536	436	141	112	91
5.7	89	68	59	56	55	57	60	71	89	103	118	343	540	441	143	113	91
5.8	89	68	59	56	55	56	60	70	89	104	119	348	544	445	145	113	91
5.9	89	67	58	55	55	56	59	70	89	105	121	353	549	450	147	114	91
6	89	67	58	54	54	55	59	69	88	106	123	358	553	455	149	115	91
6.1	89	66	58	54	54	55	58	69	88	107	125	362	557	459	151	116	91
6.2	89	66	57	54	53	54	58	68	88	108	126	367	562	463	153	117	91
6.3	89	65	57	53	53	54	57	68	88	109	128	372	566	467	155	118	91
6.4	89	65	56	53	53	53	57	67	88	109	130	376	569	471	158	119	91
6.5	89	65	56	53	52	53	57	67	88	110	132	380	572	474	160	120	91
6.6	89	64	56	52	52	53	56	67	88	111	134	385	575	478	162	121	91
6.7	88	64	55	52	51	52	56	66	88	112	136	389	578	482	165	122	91
6.8	88	64	55	52	51	52	55	66	88	113	138	393	581	486	167	123	91
6.9	88	63	55	51	51	52	55	66	88	114	140	397	584	489	169	124	91
7	88	63	55	51	50	51	55	65	88	115	142	402	587	493	172	125	90
7.1	88	63	54	51	50	51	54	65	88	116	144	406	590	497	174	126	90
7.2	88	63	54	51	49	51	54	64	87	116	146	410	593	501	177	127	90
7.3	88	62	54	50	49	50	53	64	87	117	148	414	597	504	179	128	90
7.4	88	62	54	50	49	50	53	64	87	118	150	419	600	508	181	129	90



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7.5	88	62	53	50	48	50	53	63	87	119	151	423	604	512	184	130	90
7.6	88	62	53	49	48	49	52	63	87	120	153	427	607	516	186	131	90
7.7	88	62	53	49	48	49	52	62	87	121	155	432	610	519	189	131	90
7.8	88	61	52	49	48	49	52	62	87	122	158	435	614	522	191	132	90
7.9	88	61	52	48	47	48	51	62	87	122	160	439	617	526	193	133	90
8	87	61	52	48	47	48	51	61	87	123	162	442	621	529	196	134	90
8.1	87	61	52	48	47	48	51	61	87	124	164	446	624	532	198	135	89
8.2	87	61	52	48	47	48	50	60	87	125	166	449	628	536	202	136	89
8.3	87	60	52	48	47	47	50	60	86	126	168	453	631	540	205	137	89
8.4	87	60	51	48	46	47	50	60	86	127	170	457	634	543	207	137	89
8.5	87	60	51	47	46	47	50	59	86	127	172	461	637	547	210	138	89
8.6	87	60	51	47	46	47	49	59	86	128	174	465	640	551	213	139	89
8.7	87	59	51	47	46	46	49	59	86	129	176	470	643	554	216	140	89
8.8	87	59	51	47	46	46	49	58	86	129	179	474	646	558	218	141	89
8.9	87	59	50	47	45	46	49	58	86	130	181	478	649	562	221	142	89
9	86	59	50	46	45	46	48	58	86	131	183	482	652	565	224	143	88
9.1	86	58	50	46	45	46	48	57	86	131	185	486	654	569	226	144	88
9.2	86	58	50	46	45	45	48	57	85	132	187	490	657	573	229	145	88
9.3	86	58	50	46	45	45	48	57	85	133	189	494	660	576	232	146	88
9.4	86	58	49	46	44	45	48	56	85	133	192	499	663	580	234	146	88
9.5	86	57	49	45	44	45	47	56	85	134	194	503	666	584	237	147	88
9.6	86	57	49	45	44	44	47	56	84	135	196	507	669	587	240	149	88
9.7	86	57	49	45	44	44	47	55	84	136	198	510	672	590	242	150	87
9.8	86	57	49	45	44	44	47	55	84	137	201	513	675	593	245	151	87
9.9	86	56	48	45	44	44	46	55	84	138	203	515	678	595	248	152	87
10	86	56	48	44	44	44	46	55	83	138	206	518	681	598	250	153	87
15	79	50	44	41	39	38	40	47	73	176	347	664	921	720	411	203	81
20	73	48	42	39	40	38	39	45	65	205	476	785	1468	919	542	244	75
25	69	55	63	72	76	69	60	55	63	218	574	1066	2032	1285	630	269	71
30	81	96	128	152	160	147	124	95	77	215	637	1370	2226	1607	681	273	84
35	118	147	176	190	190	183	168	139	110	202	668	1498	2048	1677	705	254	121
40	157	179	185	168	161	163	171	170	144	183	683	1385	1974	1524	732	219	162
45	230	243	239	224	218	216	225	234	210	213	651	1091	1802	1157	690	228	234
50	261	259	249	245	242	243	250	251	239	233	476	576	1258	576	488	255	261
55	178	176	171	174	173	174	176	170	164	158	229	215	614	207	234	186	178
60	95	96	93	93	89	93	92	96	95	79	90	117	218	116	92	87	95
65	37	32	32	34	34	34	32	32	40	39	31	74	91	71	37	44	38
70	19	19	22	24	25	24	22	20	19	21	22	29	46	27	25	24	20
75	12	13	16	17	18	17	16	13	12	11	11	8	12	8	13	15	14
80	9	9	11	11	11	11	10	9	8	8	8	5	4	6	10	12	11



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85	7	7	9	8	8	8	7	6	6	6	5	4	3	4	8	9	9
90	6	4	5	3	2	2	3	4	5	4	4	3	2	3	6	8	8
95	4	4	4	3	2	2	2	2	2	2	2	2	3	3	5	7	6
100	4	4	4	3	2	2	2	2	2	2	2	2	3	3	5	7	6
105	4	4	4	3	2	2	2	2	2	2	2	2	3	3	5	7	6
110	4	4	4	3	2	2	2	2	2	2	2	2	3	4	5	7	6
115	4	4	4	3	3	2	2	2	2	2	2	2	3	4	5	7	6
120	5	4	4	3	3	3	2	2	2	2	2	2	3	3	5	7	6
125	4	4	4	4	4	3	3	2	2	2	2	2	3	4	5	7	6
130	5	4	5	4	4	4	3	3	2	2	2	3	3	4	6	7	7
135	5	4	5	5	5	4	3	3	2	2	2	3	3	4	6	7	7
140	5	4	5	5	5	5	3	3	2	3	3	3	3	4	6	7	7
145	5	4	5	5	5	5	4	3	3	2	3	3	3	4	5	7	7
150	5	5	5	5	5	5	4	3	3	2	2	3	3	4	5	7	7
155	5	4	5	5	5	4	3	3	3	2	2	3	3	4	6	7	7
160	5	4	5	4	4	4	3	3	3	2	3	3	3	4	5	7	7
165	5	4	5	4	4	4	3	3	3	2	2	3	3	4	5	7	7
170	5	4	5	4	3	3	3	3	3	3	2	3	3	4	6	7	7
175	5	4	4	3	3	3	3	3	3	3	3	3	3	4	5	7	7
180	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4