

## Photometric Test Report

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : L101708402.IES**

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] L101708402  
[TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)  
[ISSUE DATE] 11/3/2017  
[MANUFAC] Bartco Lighting  
[LUMCAT] BSS110-4-35-D-R-F-G3  
[LUMINAIRE] LED Cove Field  
[BALLASTCAT] LED Cove Field  
[OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND  
[MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.  
[INPUT] 120VAC, 29.10W  
[TEST PROCEDURE] IESNA:LM-79-08

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2362
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	81
Total Luminaire Watts	29.1
Ballast Factor	1.00
CIE Type	Indirect
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.08 ft
Luminous Width (90-270)	3.75 ft
Luminous Height	0.04 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1521	857	0
55	2625	1691	0
65	4502	3203	0
75	7829	6135	0
85	14332	12915	0

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**CANDELA TABULATION**

	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
<b>0</b>	0	0	0	0	0	0	0	0	0	0
<b>5</b>	0	0	0	0	0	0	0	0	0	0
<b>10</b>	0	0	0	0	0	0	0	0	0	0
<b>15</b>	3	3	3	3	3	3	2	2	2	2
<b>20</b>	7	7	7	7	6	5	5	4	4	3
<b>25</b>	13	12	12	12	11	9	8	7	6	5
<b>30</b>	18	18	18	17	16	15	13	11	10	8
<b>35</b>	26	25	25	24	23	21	19	17	14	12
<b>40</b>	34	34	33	32	31	29	26	23	20	17
<b>45</b>	45	45	44	42	40	38	35	31	28	23
<b>50</b>	58	57	56	55	52	49	46	41	36	31
<b>55</b>	72	72	71	69	66	62	58	53	47	41
<b>60</b>	90	89	88	86	82	78	73	67	60	53
<b>65</b>	110	109	108	105	101	97	91	84	75	67
<b>70</b>	134	133	132	129	124	119	112	104	94	83
<b>75</b>	162	161	159	156	151	145	137	128	117	104
<b>80</b>	195	194	192	189	183	176	168	157	144	130
<b>85</b>	234	233	231	227	221	214	204	192	177	161
<b>90</b>	281	280	277	273	267	258	248	234	217	199
<b>95</b>	334	333	331	327	320	311	299	283	264	243
<b>100</b>	399	398	395	390	382	371	358	340	320	297
<b>105</b>	474	473	469	464	455	443	427	408	384	358
<b>110</b>	558	557	553	545	535	521	504	482	455	426
<b>115</b>	646	644	639	631	619	603	583	558	530	498
<b>120</b>	732	730	724	715	701	683	661	635	604	570
<b>125</b>	811	809	802	792	777	758	735	706	674	638
<b>130</b>	878	876	869	858	843	823	799	770	738	701
<b>135</b>	930	928	921	910	895	875	851	823	792	756
<b>140</b>	967	964	958	947	932	914	891	864	835	802
<b>145</b>	987	984	978	969	955	937	916	892	864	835
<b>150</b>	990	988	983	974	962	945	927	905	880	853
<b>155</b>	976	975	970	962	952	937	921	902	881	857
<b>160</b>	945	944	940	933	924	912	899	883	865	846
<b>165</b>	896	895	892	887	880	871	860	848	835	819
<b>170</b>	831	831	829	825	820	814	807	799	790	779
<b>175</b>	753	753	752	750	748	745	741	737	733	728
<b>180</b>	670	670	670	670	670	670	670	670	670	670

**Vert. Horizontal Angles**

	<u>50</u>	<u>55</u>	<u>60</u>	<u>65</u>	<u>70</u>	<u>75</u>	<u>80</u>	<u>85</u>	<u>90</u>	<u>95</u>
<b>0</b>	0	0	0	0	0	0	0	0	0	0
<b>5</b>	0	0	0	0	0	0	0	0	0	0
<b>10</b>	0	0	0	0	0	0	0	0	0	0
<b>15</b>	2	0	0	0	0	0	0	0	0	0
<b>20</b>	2	2	0	0	0	0	0	0	0	0
<b>25</b>	4	3	2	0	0	0	0	0	0	0
<b>30</b>	7	5	4	2	0	0	0	0	0	0
<b>35</b>	10	8	6	4	2	0	0	0	0	0
<b>40</b>	14	11	8	6	3	0	0	0	0	0
<b>45</b>	19	15	11	8	5	2	0	0	0	0
<b>50</b>	26	21	16	11	7	3	0	0	0	0
<b>55</b>	34	27	21	15	10	5	2	0	0	0
<b>60</b>	45	36	27	20	13	7	3	0	0	0

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**CANDELA TABULATION - (Cont.)**

65	57	46	36	26	17	10	4	0	0	0
70	72	60	47	35	23	13	6	0	0	0
75	91	76	60	45	31	18	8	2	0	0
80	114	96	78	60	42	26	13	3	0	0
85	143	122	101	79	58	38	21	7	0	0
90	178	154	130	105	81	57	36	18	0	0
95	220	194	166	139	112	86	63	44	26	18
100	270	241	212	183	154	125	99	81	57	43
105	329	297	265	233	201	170	141	116	93	75
110	393	359	325	288	254	221	188	160	134	112
115	462	425	386	347	311	275	239	208	180	154
120	532	492	451	409	370	328	294	261	230	201
125	600	558	515	473	431	390	350	314	280	250
130	663	621	578	534	492	450	408	370	334	301
135	719	678	636	592	550	507	465	426	388	353
140	766	726	686	644	603	560	519	480	442	406
145	801	764	726	687	648	608	567	529	492	456
150	822	790	755	719	684	646	609	573	538	503
155	830	802	771	740	708	675	642	610	578	546
160	823	800	774	748	722	694	666	639	612	584
165	802	784	764	744	724	702	680	659	638	616
170	768	755	742	729	715	700	686	671	657	642
175	722	716	710	703	696	689	682	675	668	660
180	670	670	670	670	670	670	670	670	670	670

Vert. Angles	Horizontal Angles									
	<u>100</u>	<u>105</u>	<u>110</u>	<u>115</u>	<u>120</u>	<u>125</u>	<u>130</u>	<u>135</u>	<u>140</u>	<u>145</u>
0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0	0
45	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0
55	0	0	0	0	0	0	0	0	0	0
60	0	0	0	0	0	0	0	0	0	0
65	0	0	0	0	0	0	0	0	0	0
70	0	0	0	0	0	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
90	0	0	0	0	0	0	0	0	0	0
95	16	16	17	18	19	19	20	20	21	21
100	37	34	32	32	31	31	31	31	31	31
105	64	57	53	50	48	47	45	44	43	42
110	97	87	79	73	69	65	63	60	58	56
115	136	121	110	101	93	88	83	79	76	73
120	178	159	145	133	122	114	107	101	96	92
125	223	201	182	167	154	143	134	126	120	114
130	272	245	224	206	189	176	165	156	147	140
135	322	292	268	248	228	213	200	188	178	170

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**CANDELA TABULATION - (Cont.)**

140	372	341	315	292	271	253	238	225	214	204
145	422	390	363	339	317	297	281	266	253	243
150	471	440	412	387	365	344	327	312	298	287
155	516	488	462	438	415	395	378	362	348	337
160	559	533	510	489	468	449	433	418	405	393
165	596	576	557	539	522	506	492	479	467	457
170	628	614	600	588	575	564	554	543	535	527
175	653	646	639	633	626	620	615	610	605	601
180	670	670	670	670	670	670	670	670	670	670

**Vert. Horizontal Angles**  
**Angles**

	<u>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>
0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0
45	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0
55	0	0	0	0	0	0	0
60	0	0	0	0	0	0	0
65	0	0	0	0	0	0	0
70	0	0	0	0	0	0	0
75	0	0	0	0	0	0	0
80	0	0	0	0	0	0	0
85	0	0	0	0	0	0	0
90	0	0	0	0	0	0	0
95	21	21	21	21	21	21	21
100	30	30	30	30	30	30	30
105	42	41	40	40	40	39	39
110	55	54	53	52	51	51	51
115	70	69	67	66	65	65	64
120	89	86	84	82	81	81	80
125	110	106	103	101	100	99	98
130	135	130	127	124	122	121	120
135	163	158	153	150	148	146	146
140	196	190	184	180	178	176	176
145	234	227	221	216	213	211	211
150	277	269	263	258	254	252	252
155	327	318	312	307	303	301	300
160	383	375	369	364	360	358	357
165	448	441	434	430	426	424	424
170	520	514	509	506	503	502	501
175	597	594	591	589	588	587	586
180	670	670	670	670	670	670	670

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	0.23	N.A.	0.00
0-30	1.56	N.A.	0.10
0-40	5.54	N.A.	0.20
0-60	31.93	N.A.	1.40
0-80	112.02	N.A.	4.70
0-90	190.15	N.A.	8.00
10-90	190.15	N.A.	8.00
20-40	5.31	N.A.	0.20
20-50	14.27	N.A.	0.60
40-70	56.79	N.A.	2.40
60-80	80.10	N.A.	3.40
70-80	49.69	N.A.	2.10
80-90	78.13	N.A.	3.30
90-110	330.40	N.A.	14.00
90-120	606.37	N.A.	25.70
90-130	941.72	N.A.	39.90
90-150	1644.74	N.A.	69.60
90-180	2171.98	N.A.	92.00
110-180	1841.58	N.A.	78.00
0-180	2362.13	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	0.00
10-20	0.23
20-30	1.33
30-40	3.98
40-50	8.97
50-60	17.42
60-70	30.40
70-80	49.69
80-90	78.13
90-100	129.67
100-110	200.72
110-120	275.97
120-130	335.35
130-140	360.68
140-150	342.34
150-160	280.47
160-170	183.20
170-180	63.58

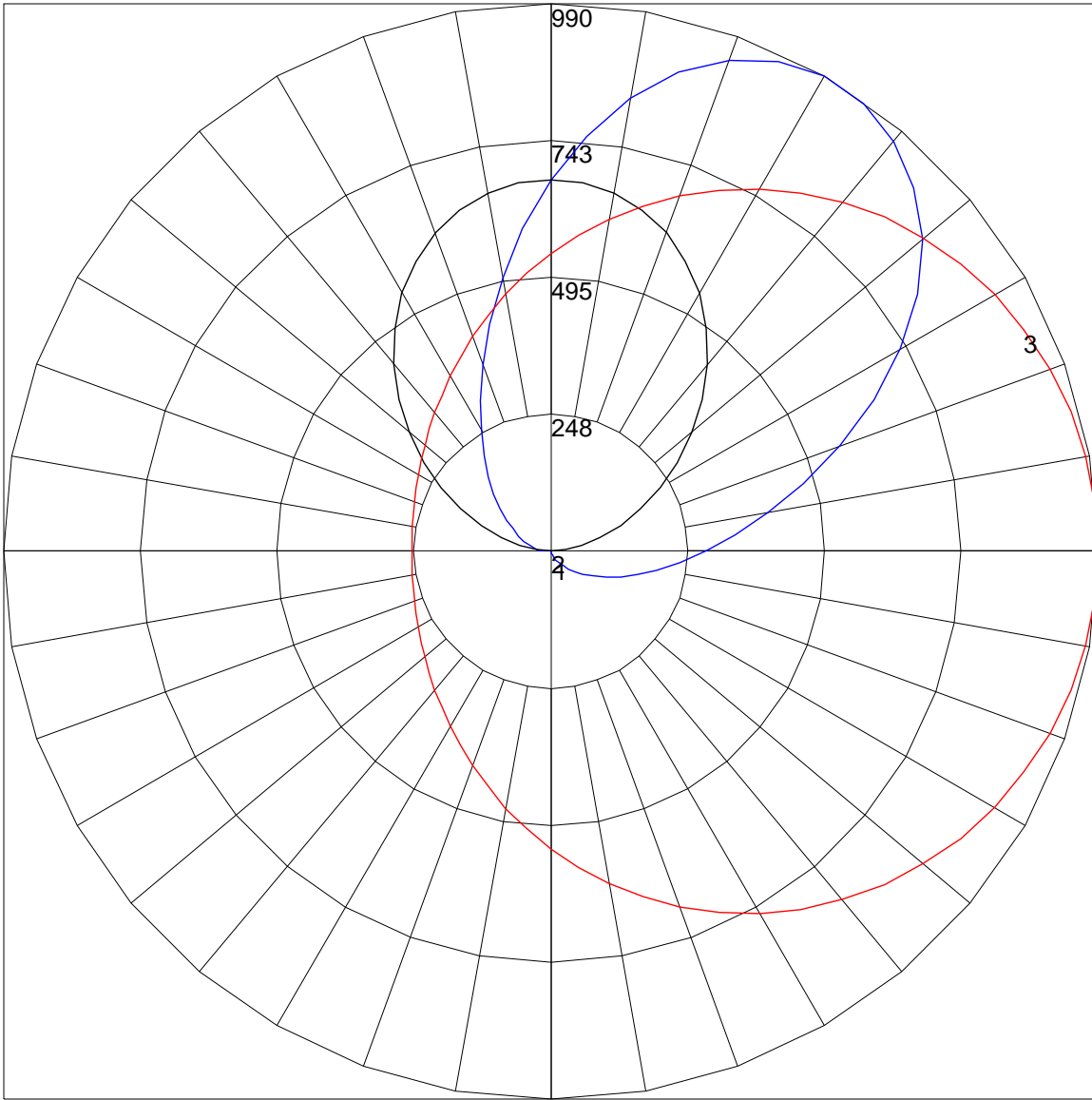
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
	RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	
0	97	97	97	97	84	84	84	84	60	60	60	38	38	38	18	18	18	8
1	87	82	78	74	75	71	67	64	50	48	46	31	29	28	13	12	12	4
2	79	71	65	59	67	61	56	52	43	40	37	26	24	23	11	10	9	2
3	71	62	55	49	61	53	47	43	38	34	30	23	20	19	9	8	7	1
4	65	54	47	41	56	47	41	36	33	29	25	20	18	15	8	7	6	1
5	59	48	40	34	51	42	35	30	29	25	21	18	15	13	7	6	5	1
6	54	43	35	29	47	37	30	26	26	22	18	16	13	11	6	5	4	0
7	50	38	31	25	43	33	27	22	23	19	16	14	12	10	6	4	4	0
8	46	34	27	22	40	30	24	19	21	17	14	13	10	8	5	4	3	0
9	43	31	24	19	37	27	21	17	19	15	12	12	9	7	5	4	3	0
10	40	28	21	17	34	25	19	15	17	13	11	11	8	6	4	3	2	0

POLAR GRAPH



Maximum Candela = 990 Located At Horizontal Angle = 0, Vertical Angle = 150  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Vertical Plane Through Horizontal Angles (90 - 270)  
# 3 - Horizontal Cone Through Vertical Angle (150) (Through Max. Cd.)