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Photometric Test Report

IES INDOOR REPORT
PHOTOMETRIC FILENAME : L011503101.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L011503101
[TESTLAB] LIGHT LABORATORY, INC.
[ISSUEDATE] 1/12/2015
[MANUFAC] BARTCO LIGHTING
[LUMCAT] BSS210
[LUMINAIRE] 44-1/2"L X 2"W X 4"H. LED LUMINAIRE
[MORE] DIFFUSED LENS
[BALLASTCAT] PHILIPS ADVANCE XI040C110V054BPT1
[BALLAST] INPUT: 120-277VAC, 0.4-0.17A, 50/60HZ. OUTPUT: 27-54VAC, 0.1-1.1A
[LAMPPOSITION] 0,0
[LAMPCAT] N/A
[OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND
[MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.
[INPUT] 120VAC, 31.77W
[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3736
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	118
Total Luminaire Watts	31.77
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.14
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.32
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	3.67 ft
Luminous Width (90-270)	0.17 ft
Luminous Height	0.17 ft

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	12674	9401	9848
55	10175	8285	8911
65	7791	7111	7237
75	5621	5790	5292
85	3362	4580	3771

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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>
0	1089	1089	1089	1089	1089	1089	1089	1089	1089	1089
5	1082	1082	1083	1084	1085	1086	1088	1089	1090	1090
10	1059	1060	1062	1065	1067	1069	1071	1071	1072	1072
15	1020	1022	1026	1030	1032	1034	1034	1035	1034	1033
20	967	971	976	980	982	983	983	981	980	978
25	900	906	912	916	918	919	918	916	915	913
30	822	829	836	841	844	845	845	845	845	846
35	734	743	752	758	762	765	768	771	776	783
40	640	650	661	669	676	683	690	700	711	724
45	544	556	568	580	591	603	616	632	651	671
50	450	463	479	493	509	526	545	568	593	620
55	361	376	394	412	432	454	479	507	537	567
60	281	297	317	338	361	388	416	447	480	511
65	210	228	248	272	297	326	356	388	421	451
70	150	167	189	213	240	269	299	331	361	389
75	99	116	138	162	188	218	246	276	303	327
80	58	75	96	120	146	173	200	226	250	270
85	26	43	63	85	110	135	159	183	203	219
90	3	19	38	59	82	104	126	146	163	176
95	2	16	34	52	72	92	111	128	142	153
100	0	15	31	48	65	83	99	114	126	135
105	0	14	29	44	59	75	90	102	113	121
110	0	13	26	40	54	68	81	93	103	110
115	0	12	24	37	49	62	74	84	93	100
120	0	11	23	34	45	57	67	77	85	92
125	0	9	20	31	41	51	61	69	77	83
130	0	8	18	27	36	45	54	62	69	75
135	0	8	15	23	31	39	46	53	60	67
140	0	7	13	20	27	33	39	45	51	57
145	0	6	11	17	23	28	33	38	43	48
150	0	6	9	14	18	23	28	33	37	40
155	0	6	9	12	16	19	23	27	30	33
160	0	6	8	10	13	16	18	21	24	27
165	0	6	7	9	10	12	14	16	18	19
170	0	0	7	8	9	10	11	12	12	13
175	0	0	6	7	7	7	8	8	9	9
180	0	0	0	0	0	0	0	0	0	0

Vert. Angles **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>
0	1089	1089	1089	1089	1089	1089	1089	1089	1089
5	1091	1092	1092	1092	1093	1093	1093	1093	1093
10	1073	1072	1072	1072	1071	1071	1071	1071	1071
15	1032	1031	1029	1028	1027	1026	1025	1025	1024
20	976	974	972	971	969	968	968	968	967
25	912	911	911	911	911	912	913	913	913
30	849	852	855	859	863	867	870	872	872
35	791	800	809	819	828	836	842	845	847
40	740	756	772	788	801	813	822	827	829
45	694	716	738	758	775	790	800	806	808
50	648	675	700	722	740	755	766	772	774
55	598	627	653	674	691	704	713	718	720
60	542	570	593	612	625	635	642	645	646

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CANDELA TABULATION - (Cont.)

65	480	504	523	537	546	552	556	558	558
70	414	433	447	456	461	464	465	465	465
75	347	361	371	376	378	378	377	376	376
80	286	296	302	305	305	303	302	300	300
85	231	239	243	244	242	241	239	237	237
90	186	192	194	194	193	191	189	188	188
95	160	164	166	166	165	163	161	160	160
100	141	145	146	146	145	144	142	141	141
105	127	130	132	132	131	130	129	129	128
110	116	119	121	122	122	121	120	120	120
115	106	110	112	113	114	113	113	113	113
120	97	101	104	105	106	106	107	107	106
125	89	93	96	98	99	100	100	100	100
130	80	84	88	90	91	92	93	93	93
135	72	76	79	82	83	85	85	86	86
140	62	67	71	73	75	76	77	78	78
145	52	57	61	64	66	68	69	69	69
150	43	47	50	54	57	58	59	60	60
155	36	38	40	43	46	49	50	50	50
160	29	30	32	33	36	38	40	40	41
165	21	23	24	25	26	27	30	31	31
170	14	15	16	16	17	17	18	21	21
175	9	9	10	10	10	9	9	9	11
180	0	0	0	0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	392.89	N.A.	10.50
0-30	814.06	N.A.	21.80
0-40	1310.28	N.A.	35.10
0-60	2335.03	N.A.	62.50
0-80	3060.95	N.A.	81.90
0-90	3260.35	N.A.	87.30
10-90	3157.1	N.A.	84.50
20-40	917.40	N.A.	24.60
20-50	1441.83	N.A.	38.60
40-70	1444.62	N.A.	38.70
60-80	725.93	N.A.	19.40
70-80	306.05	N.A.	8.20
80-90	199.40	N.A.	5.30
90-110	237.66	N.A.	6.40
90-120	319.85	N.A.	8.60
90-130	383.02	N.A.	10.30
90-150	455.15	N.A.	12.20
90-180	475.72	N.A.	12.70
110-180	238.06	N.A.	6.40
0-180	3736.07	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	103.25
10-20	289.64
20-30	421.17
30-40	496.22
40-50	524.44
50-60	500.31
60-70	419.87
70-80	306.05
80-90	199.40
90-100	134.05
100-110	103.61
110-120	82.19
120-130	63.17
130-140	44.51
140-150	27.63
150-160	14.35
160-170	5.39
170-180	0.83

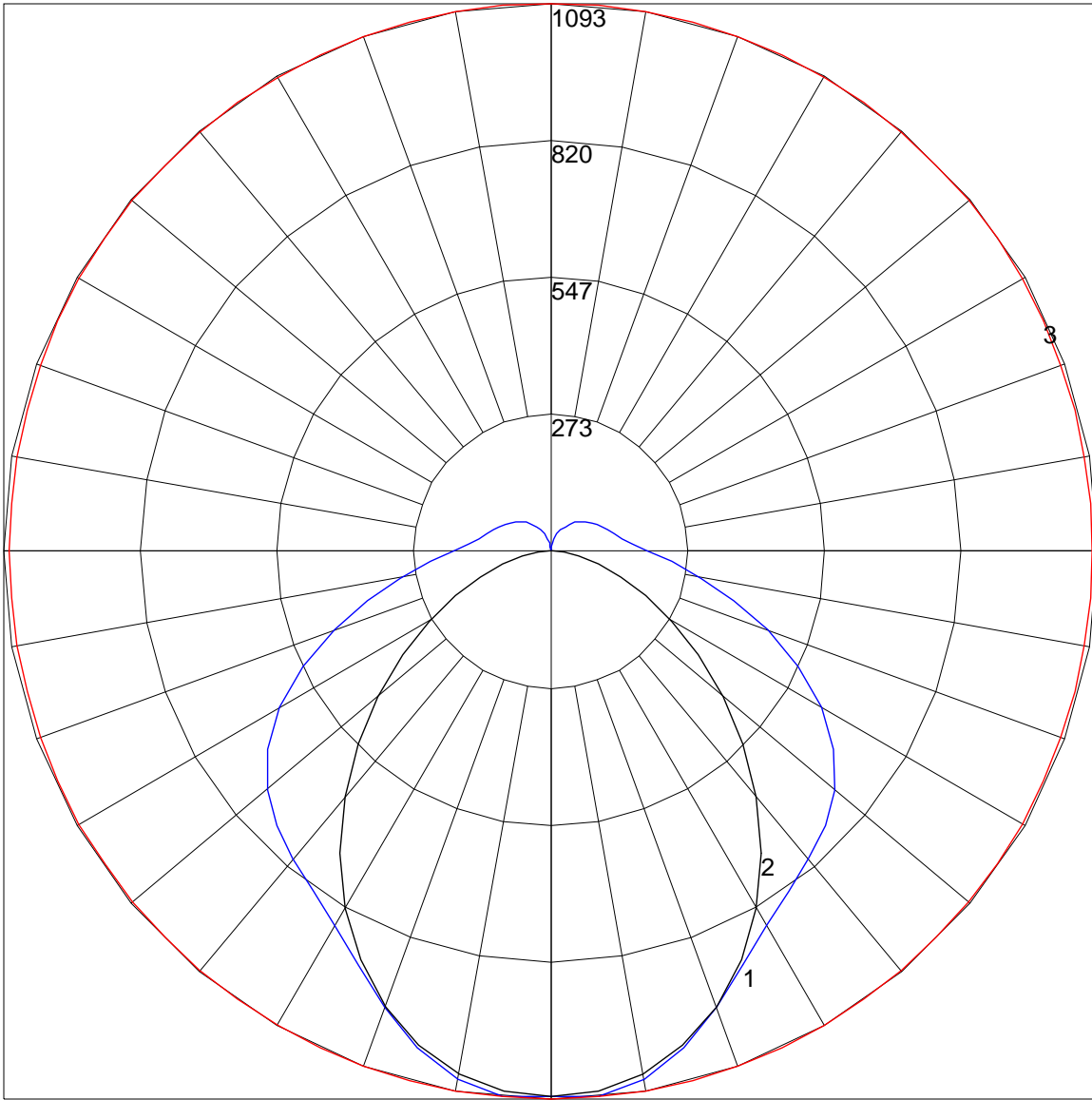
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	10	0
0	116	116	116	116	112	112	112	112	104	104	104	97	97	97	90	90	90	87
1	104	99	94	89	100	95	91	87	88	85	82	82	79	77	77	74	72	69
2	94	85	78	71	90	82	75	70	76	71	66	71	67	63	66	63	59	56
3	85	74	66	59	82	72	64	57	67	60	55	62	57	52	58	54	50	47
4	78	66	56	49	75	63	55	48	59	52	46	55	49	44	52	47	42	40
5	72	58	49	42	69	57	48	42	53	46	40	50	43	38	46	41	37	34
6	66	52	43	37	63	51	42	36	48	40	35	45	38	34	42	37	32	30
7	61	48	39	32	59	46	38	32	43	36	31	41	34	30	38	33	29	26
8	57	43	35	29	55	42	34	28	40	33	27	37	31	27	35	30	26	24
9	53	40	31	26	51	39	31	25	37	30	25	35	28	24	33	27	23	21
10	50	37	29	23	48	36	28	23	34	27	22	32	26	22	30	25	21	19

POLAR GRAPH



Maximum Candela = 1093 Located At Horizontal Angle = 70, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (70 - 250) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (0 - 180)
3 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)