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Photometric Test Report

IES INDOOR REPORT
PHOTOMETRIC FILENAME : L051501901.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L051501901
 [TESTLAB] LIGHT LABORATORY, INC.
 [ISSUEDATE] 5/22/2015
 [MANUFAC] BARTCO LIGHTING
 [LUMCAT] BSS110-4-35-7-F-WH
 [LUMINAIRE] 3"L. X 45-1/2"W. X 2"H. LED LUMINAIRE
 [MORE] DIFFUSED LENS
 [BALLASTCAT] PHILIPS ADVANCE XI040C110V054BPT1
 [BALLAST] INPUT: 120-277VAC, 0.4-0.17A, 50/60Hz OUTPUT: 0.1-1.1ADC, 27-54VDC
 [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, 31.82W
 [TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3034
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	95
Total Luminaire Watts	31.82
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	0.02 ft

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2028	1245	403
55	3776	2285	496
65	7233	4769	671
75	14043	10343	1086
85	30707	25104	3489

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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	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	9	9	9	9	9	9	9	9	9	8
20	11	11	11	11	10	10	9	9	9	9
25	15	15	15	14	14	13	12	11	11	10
30	21	21	20	20	19	18	17	15	14	12
35	29	29	28	27	26	24	22	19	18	16
40	38	38	37	36	34	32	30	28	24	21
45	50	50	49	47	45	42	39	35	31	29
50	65	64	63	61	58	55	51	46	41	35
55	82	82	80	77	74	70	65	59	53	46
60	103	102	100	97	93	88	82	75	67	59
65	131	130	128	124	120	113	103	95	87	78
70	161	160	157	153	149	141	133	123	112	99
75	196	196	193	188	182	175	165	153	140	125
80	238	238	235	231	224	214	198	191	176	158
85	288	287	284	279	272	263	250	234	217	187
90	346	345	342	337	329	318	304	288	270	245
95	416	415	412	406	398	386	371	352	330	304
100	497	496	492	487	476	462	446	426	401	372
105	588	587	584	575	564	551	532	508	481	449
110	690	689	683	674	663	646	625	599	569	535
115	796	796	787	779	765	746	723	696	662	623
120	901	900	890	882	865	845	821	790	753	713
125	986	984	975	963	947	927	900	867	831	789
130	1073	1069	1061	1049	1032	1012	983	950	913	870
135	1146	1140	1130	1118	1104	1081	1054	1021	984	942
140	1198	1193	1185	1172	1158	1136	1109	1079	1043	1004
145	1229	1225	1218	1207	1193	1173	1148	1120	1087	1051
150	1240	1239	1231	1222	1209	1192	1170	1145	1115	1083
155	1235	1234	1226	1218	1207	1192	1173	1152	1126	1099
160	1212	1209	1202	1196	1186	1173	1158	1141	1118	1096
165	1166	1162	1158	1151	1144	1134	1124	1110	1092	1075
170	1098	1095	1094	1088	1083	1077	1070	1061	1048	1036
175	1012	1012	1011	1008	1004	1002	999	994	987	981
180	905	905	905	905	905	905	905	905	905	905

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>
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	8	8	8	8	8	8	8	8	8	8
20	8	8	8	8	8	8	8	8	8	8
25	9	9	8	8	8	8	8	8	8	8
30	11	10	9	8	8	8	8	8	8	8
35	14	12	10	9	8	8	8	8	8	8
40	16	15	12	10	9	8	8	8	8	8
45	23	17	15	12	10	8	8	8	8	8
50	32	25	17	15	11	9	8	8	8	8
55	39	35	25	16	14	10	8	8	8	8
60	51	42	37	25	15	12	9	8	8	8

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CANDELA TABULATION - (Cont.)

65	67	55	44	37	23	12	10	8	8	8
70	85	71	57	43	35	20	9	8	8	8
75	109	92	74	57	47	26	11	9	8	8
80	139	118	97	76	55	44	21	9	8	8
85	175	151	126	101	76	53	40	10	9	8
90	220	180	164	134	105	78	52	38	9	9
95	277	245	197	179	147	116	87	62	39	27
100	340	306	273	234	183	164	133	104	79	60
105	414	377	337	298	262	221	172	154	126	102
110	495	455	412	369	326	288	246	197	179	151
115	582	537	491	445	399	355	313	277	238	195
120	669	622	574	525	476	429	384	342	303	270
125	742	694	645	595	544	495	447	403	362	324
130	823	776	726	675	623	572	523	477	434	392
135	898	850	803	751	699	648	598	551	506	463
140	962	917	871	821	770	719	670	624	578	533
145	1012	971	927	880	832	784	737	691	647	602
150	1047	1011	971	927	883	838	795	752	710	667
155	1067	1035	999	961	922	882	843	805	767	727
160	1069	1043	1013	980	947	913	880	848	815	781
165	1054	1033	1010	984	958	930	905	879	853	826
170	1021	1007	991	972	954	935	918	900	881	863
175	973	966	957	946	936	926	917	908	898	888
180	905	905	905	905	905	905	905	905	905	905

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	8	8	8	8	8	8	7	7	7	7
20	8	8	8	8	8	8	7	7	7	7
25	8	8	8	8	8	7	7	7	7	7
30	8	8	8	7	7	7	7	7	7	7
35	8	8	8	7	7	7	7	7	7	7
40	8	8	7	7	7	7	7	7	7	7
45	8	7	7	7	7	7	7	7	7	7
50	7	7	7	7	7	7	7	7	7	7
55	7	7	7	7	7	7	7	7	7	7
60	8	8	8	8	8	7	7	7	7	8
65	8	8	8	8	8	8	8	8	8	8
70	8	8	8	8	8	8	8	8	8	8
75	8	8	8	8	8	8	8	8	8	8
80	8	8	8	8	8	9	9	9	9	9
85	8	8	9	9	9	9	9	9	9	9
90	9	9	9	9	9	10	10	10	10	10
95	26	26	26	27	28	28	27	26	25	24
100	51	47	46	45	44	43	43	43	42	42
105	86	77	72	68	65	63	61	59	58	57
110	130	115	105	97	91	87	83	80	77	75
115	180	160	145	133	124	116	110	105	100	97
120	237	203	192	175	162	151	142	134	128	122
125	290	263	237	216	193	185	173	163	155	148
130	354	321	293	270	247	229	208	201	190	181
135	422	386	354	326	301	280	263	246	232	222

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CANDELA TABULATION - (Cont.)

140	491	453	418	387	360	336	315	297	281	269
145	560	520	485	452	423	397	374	354	337	322
150	627	588	553	520	490	464	439	418	399	384
155	690	654	621	590	561	535	510	489	470	454
160	748	717	688	660	634	610	587	566	548	533
165	800	774	751	728	707	687	667	650	634	620
170	844	825	809	793	778	763	749	736	724	713
175	878	868	860	851	843	836	828	821	814	808
180	905	905	905	905	905	905	905	905	905	905

Vert. Horizontal 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	7	7	7	7	7	7	7
20	7	7	7	7	7	7	7
25	7	7	7	7	7	7	7
30	7	7	7	7	7	7	7
35	7	7	7	7	7	7	7
40	7	7	7	7	7	7	7
45	7	7	7	7	7	7	7
50	7	7	7	7	7	7	7
55	7	7	7	7	7	7	7
60	8	8	8	8	8	8	8
65	8	8	8	8	8	8	8
70	8	8	8	8	8	8	8
75	8	8	8	8	8	8	8
80	9	9	9	9	9	9	9
85	9	9	9	9	9	9	9
90	10	10	10	10	10	10	9
95	23	23	22	22	21	21	21
100	42	41	41	41	41	41	41
105	56	55	54	54	54	53	53
110	73	71	70	69	68	68	68
115	94	91	89	88	86	86	85
120	118	114	111	109	108	107	106
125	142	138	134	131	129	128	127
130	174	168	163	159	157	155	155
135	209	205	199	194	191	189	189
140	258	249	242	236	232	231	231
145	310	300	292	286	281	279	279
150	371	360	351	344	339	336	336
155	440	428	419	411	406	403	402
160	519	508	498	491	485	483	481
165	608	597	589	582	577	575	574
170	704	696	689	684	679	679	680
175	803	798	793	790	788	788	790
180	905	905	905	905	905	905	905

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1.80	N.A.	0.10
0-30	6.06	N.A.	0.20
0-40	13.78	N.A.	0.50
0-60	51.13	N.A.	1.70
0-80	156.63	N.A.	5.20
0-90	258.40	N.A.	8.50
10-90	258.40	N.A.	8.50
20-40	11.97	N.A.	0.40
20-50	25.65	N.A.	0.80
40-70	77.67	N.A.	2.60
60-80	105.50	N.A.	3.50
70-80	65.18	N.A.	2.10
80-90	101.77	N.A.	3.40
90-110	418.74	N.A.	13.80
90-120	767.72	N.A.	25.30
90-130	1187.75	N.A.	39.20
90-150	2081.42	N.A.	68.60
90-180	2775.11	N.A.	91.50
110-180	2356.37	N.A.	77.70
0-180	3033.51	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	0.00
10-20	1.80
20-30	4.26
30-40	7.72
40-50	13.68
50-60	23.67
60-70	40.32
70-80	65.18
80-90	101.77
90-100	164.51
100-110	254.23
110-120	348.98
120-130	420.03
130-140	455.13
140-150	438.54
150-160	365.35
160-170	242.94
170-180	85.40

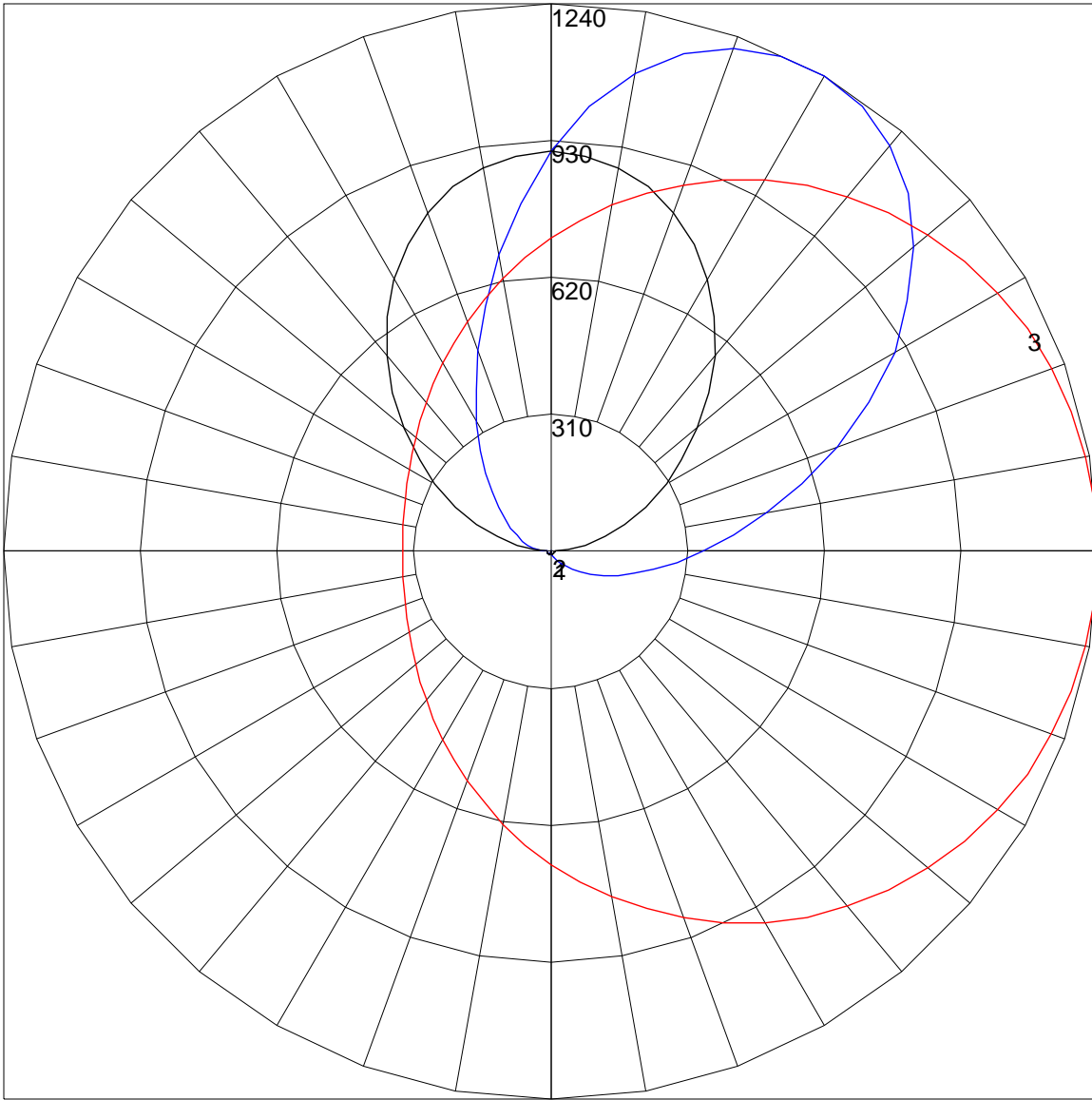
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	
0	97	97	97	97	84	84	84	84	60	60	60	38	38	38	18	18	18	9
1	87	82	78	74	75	71	68	64	50	48	46	31	30	28	13	13	12	4
2	79	71	65	60	68	61	56	52	43	40	37	27	25	23	11	10	9	2
3	71	62	55	49	61	54	47	43	38	34	30	23	21	19	9	8	7	2
4	65	54	47	41	56	47	41	36	33	29	25	20	18	16	8	7	6	1
5	59	48	40	34	51	42	35	30	29	25	22	18	15	13	7	6	5	1
6	54	43	35	29	47	37	31	26	26	22	18	16	13	11	7	5	4	1
7	50	38	31	25	43	33	27	22	24	19	16	14	12	10	6	5	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	22	17	34	25	19	15	18	13	11	11	8	7	5	3	2	0

POLAR GRAPH



Maximum Candela = 1240 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.)