

## Photometric Test Report

### IES INDOOR REPORT

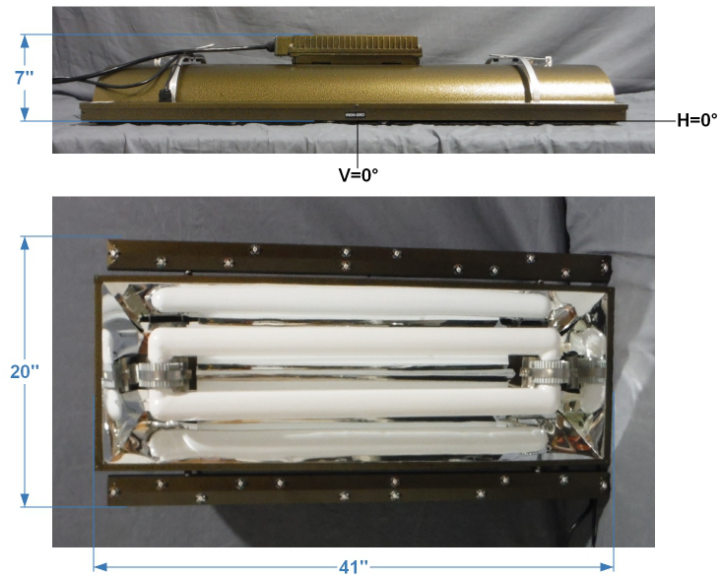
PHOTOMETRIC FILENAME : L051405901.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] L051405901  
[TESTLAB] LIGHT LABORATORY, INC.  
[ISSUEDATE] 5/30/2014  
[MANUFAC] INDA GRO  
[LUMCAT] Pro-420-PAR  
[LUMINAIRE] 41"L. X 20"W. X 7"H. LUMINAIRE  
[MORE] SPECULAR REFLECTOR. INDUCTION LAMP WITH LED LIGHTS AT THE SIDE.  
[BALLASTCAT1] CUSTOM BALLAST  
[BALLAST1] INPUT: 120VAC, 60Hz.  
[BALLASTCAT2] MEAN WELL GS40A15-P1J  
[BALLAST] INPUT: 100-240VAC, 1.0A, 50/60Hz. OUTPUT: 15VDC, 2.67A  
[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, 450.40W

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	31213
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	69
Total Luminaire Watts	450.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.34
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.31 ft
Luminous Width (90-270)	1.63 ft
Luminous Height	0.00 ft



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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	21493	20724	19526
55	19231	18157	18133
65	16630	16630	16653
75	11706	13977	12930
85	6243	6266	3545

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>	12045	12045	12045	12045	12045	12045	12045	12045	12045	12045
<b>5</b>	12060	12049	12048	12055	12059	12060	12064	12064	12059	12056
<b>10</b>	11933	11927	11938	11954	11948	11934	11917	11907	11907	11907
<b>15</b>	11687	11685	11694	11685	11661	11649	11646	11615	11565	11506
<b>20</b>	11300	11293	11269	11241	11231	11204	11126	11029	10932	10853
<b>25</b>	10772	10760	10716	10691	10653	10547	10408	10297	10258	10238
<b>30</b>	10161	10139	10084	10059	9933	9768	9670	9630	9565	9505
<b>35</b>	9445	9397	9349	9264	9077	8967	8921	8837	8817	8859
<b>40</b>	8592	8529	8488	8324	8176	8127	8057	8079	8191	8271
<b>45</b>	7625	7559	7496	7306	7251	7181	7240	7388	7381	7352
<b>50</b>	6585	6518	6414	6300	6244	6302	6447	6441	6405	6397
<b>55</b>	5534	5476	5330	5278	5295	5446	5453	5436	5404	5225
<b>60</b>	4582	4527	4402	4363	4498	4550	4558	4460	4257	4198
<b>65</b>	3526	3454	3369	3414	3524	3555	3413	3342	3468	3526
<b>70</b>	2486	2402	2369	2493	2556	2468	2558	2625	2630	2653
<b>75</b>	1520	1458	1507	1618	1642	1741	1777	1817	1822	1815
<b>80</b>	721	709	816	913	974	1008	1016	1016	1005	987
<b>85</b>	273	301	346	363	364	357	345	330	300	274
<b>90</b>	121	121	121	122	122	122	122	122	122	122
<b>95</b>	113	113	114	114	114	114	114	114	115	115
<b>100</b>	109	109	109	109	109	110	110	109	110	110
<b>105</b>	106	106	106	106	105	106	106	106	106	106
<b>110</b>	103	103	103	103	103	102	102	103	103	103
<b>115</b>	101	101	101	101	101	101	101	101	101	101
<b>120</b>	100	100	100	100	100	100	99	99	99	99
<b>125</b>	99	99	99	99	98	98	98	98	98	98
<b>130</b>	99	99	99	99	99	98	98	98	98	98
<b>135</b>	0	0	0	0	0	0	0	0	0	0
<b>140</b>	0	0	0	0	0	0	0	0	0	0
<b>145</b>	0	0	0	0	0	0	0	0	0	0
<b>150</b>	0	0	0	0	0	0	0	0	0	0
<b>155</b>	0	0	0	0	0	0	0	0	0	0
<b>160</b>	0	0	0	0	0	0	0	0	0	0
<b>165</b>	0	0	0	0	0	0	0	0	0	0
<b>170</b>	0	0	0	0	0	0	0	0	0	0
<b>175</b>	0	0	0	0	0	0	0	0	0	0
<b>180</b>	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>
<b>0</b>	12045	12045	12045	12045	12045	12045	12045	12045	12045
<b>5</b>	12052	12046	12043	12039	12034	12030	12030	12029	12017
<b>10</b>	11906	11896	11882	11869	11854	11841	11829	11826	11822
<b>15</b>	11450	11397	11347	11307	11272	11250	11235	11231	11234
<b>20</b>	10805	10776	10760	10745	10723	10704	10689	10676	10669
<b>25</b>	10206	10154	10117	10099	10088	10081	10075	10076	10076
<b>30</b>	9495	9514	9569	9636	9693	9730	9746	9753	9756
<b>35</b>	8949	9026	9024	8986	8968	8960	8957	8959	8961
<b>40</b>	8207	8163	8123	8078	8062	8064	8075	8085	8092
<b>45</b>	7288	7249	7240	7264	7124	7013	6966	6935	6927
<b>50</b>	6335	6184	6000	5836	5725	5680	5676	5696	5705
<b>55</b>	5034	4955	4998	5080	5118	5144	5171	5202	5218
<b>60</b>	4322	4408	4451	4441	4407	4385	4384	4405	4417

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	3518	3515	3529	3540	3533	3521	3517	3527	3531
<b>70</b>	2672	2664	2650	2636	2617	2590	2570	2561	2557
<b>75</b>	1806	1792	1773	1749	1728	1708	1693	1683	1679
<b>80</b>	966	945	923	903	887	875	869	866	865
<b>85</b>	244	220	198	177	169	162	157	155	155
<b>90</b>	122	121	121	121	122	121	121	121	121
<b>95</b>	115	114	114	114	114	114	114	114	114
<b>100</b>	110	109	109	109	109	109	109	109	109
<b>105</b>	106	106	106	106	106	106	106	106	106
<b>110</b>	103	103	103	103	103	103	103	103	103
<b>115</b>	101	101	101	101	101	101	101	101	101
<b>120</b>	99	99	99	99	99	99	99	99	99
<b>125</b>	98	98	98	98	98	98	98	98	98
<b>130</b>	98	98	98	98	98	98	98	98	98
<b>135</b>	0	0	0	0	0	0	0	0	0
<b>140</b>	0	0	0	0	0	0	0	0	0
<b>145</b>	0	0	0	0	0	0	0	0	0
<b>150</b>	0	0	0	0	0	0	0	0	0
<b>155</b>	0	0	0	0	0	0	0	0	0
<b>160</b>	0	0	0	0	0	0	0	0	0
<b>165</b>	0	0	0	0	0	0	0	0	0
<b>170</b>	0	0	0	0	0	0	0	0	0
<b>175</b>	0	0	0	0	0	0	0	0	0
<b>180</b>	0	0	0	0	0	0	0	0	0

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	4379.55	N.A.	14.00
0-30	9151.19	N.A.	29.30
0-40	14789.12	N.A.	47.40
0-60	25068.48	N.A.	80.30
0-80	30343.41	N.A.	97.20
0-90	30767.04	N.A.	98.60
10-90	29622.5	N.A.	94.90
20-40	10409.57	N.A.	33.40
20-50	15976.99	N.A.	51.20
40-70	13735.05	N.A.	44.00
60-80	5274.94	N.A.	16.90
70-80	1819.25	N.A.	5.80
80-90	423.63	N.A.	1.40
90-110	237.37	N.A.	0.80
90-120	337.69	N.A.	1.10
90-130	426.06	N.A.	1.40
90-150	445.91	N.A.	1.40
90-180	445.91	N.A.	1.40
110-180	208.54	N.A.	0.70
0-180	31212.95	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	1144.54
10-20	3235.02
20-30	4771.64
30-40	5637.93
40-50	5567.42
50-60	4711.94
60-70	3455.69
70-80	1819.25
80-90	423.63
90-100	125.20
100-110	112.17
110-120	100.32
120-130	88.37
130-140	19.85
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

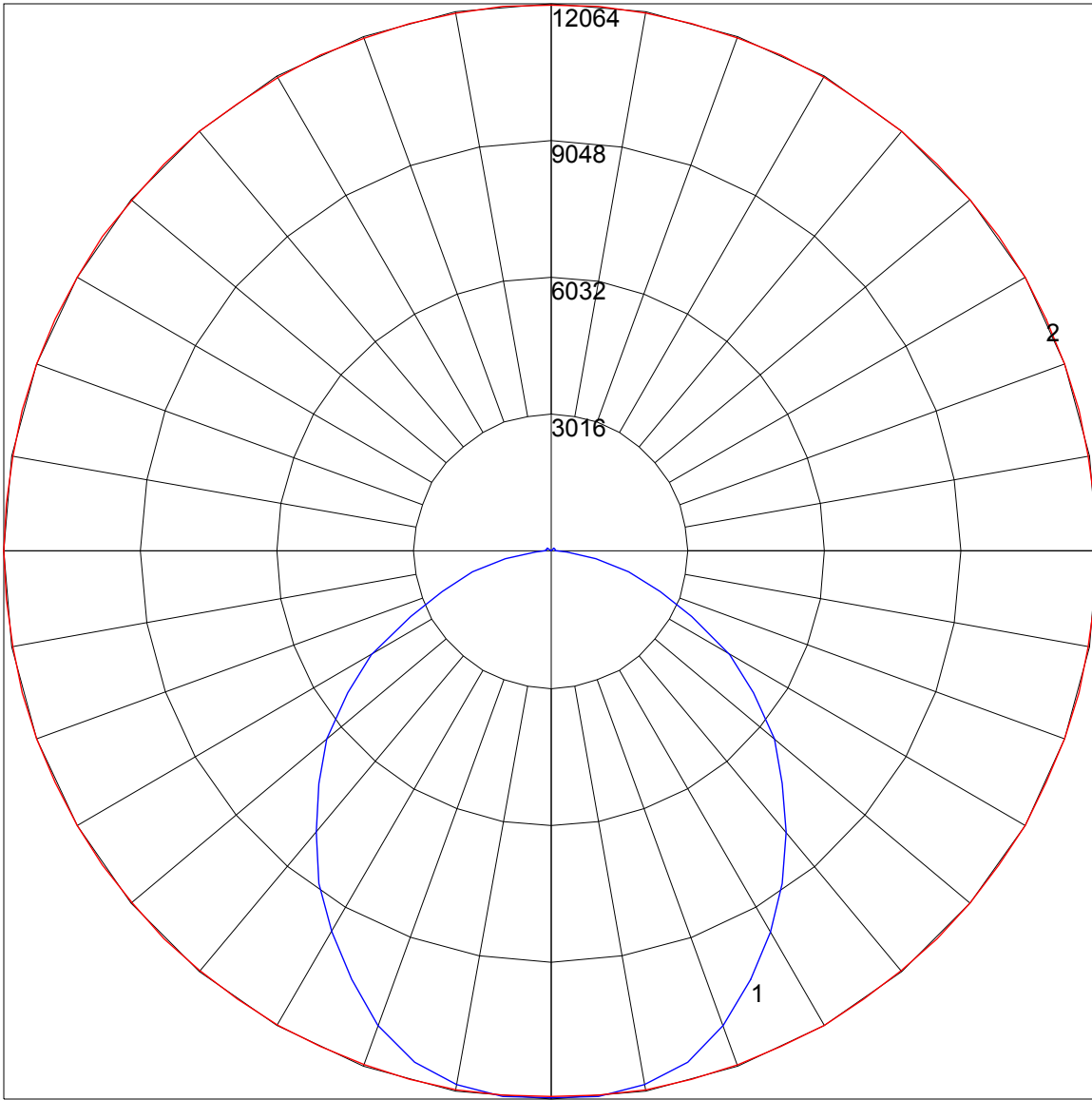
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	119	119	119	119	119	116	116	116	116	116	110	110	110	105	105	105	101	101	101	99
1	109	104	100	97		106	102	98	95		97	94	92	93	91	89	90	88	86	84
2	99	91	85	79		97	89	83	78		86	81	76	82	78	74	79	76	72	70
3	91	81	73	66		88	79	72	66		76	70	64	73	68	63	70	66	62	60
4	83	72	63	57		81	70	62	56		68	61	55	65	59	54	63	58	53	51
5	77	64	55	49		75	63	55	49		61	54	48	59	52	47	57	51	47	45
6	71	58	49	43		69	57	49	43		55	48	42	53	47	42	52	46	41	39
7	66	53	44	38		64	52	44	38		50	43	38	49	42	37	47	41	37	35
8	61	48	40	34		60	47	39	34		46	39	34	45	38	33	43	37	33	31
9	57	44	36	31		56	44	36	31		42	35	30	41	35	30	40	34	30	28
10	54	41	33	28		53	40	33	28		39	32	28	38	32	27	37	31	27	26

POLAR GRAPH



Maximum Candela = 12064 Located At Horizontal Angle = 30, Vertical Angle = 5  
# 1 - Vertical Plane Through Horizontal Angles (30 - 210) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)