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INDEPENDENT TESTING LABORATORIES, INC.
4066 CAMELOT CIRCLE, LONGMONT, CO 80504 USA

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REPORT NUMBER: ITL REPORT NUMBER

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ISSUE DATE: 01/10/15

PREPARED FOR: ITL CUSTOMER

CATALOG NUMBER: SAMPLE FLUORESCENT FIXTURE - RELATIVE PHOTOMETRY

LUMINAIRE: FABRICATED METAL HOUSING, WHITE PAINTED INTERIOR FINISH,
FABRICATED SEMI-SPECULAR METAL PARABOLIC 12-CELL LOUVER.

BALLAST: ADVANCE REL-2P32-RH-TP

MOUNTING: RECESSED

TOTAL REFLECTANCE OF PAINT = 94.3 %

THE 0 DEGREE PLANE IS PARALLEL WITH
THE LAMPS.

TOTAL INPUT WATTS = 59.1 AT 120.0 VOLTS
REPORT IS BASED ON 2850 LUMENS PER LAMP.

CANDELA DISTRIBUTION						FLUX
	0.0	22.5	45.0	67.5	90.0	
0	1464	1464	1464	1464	1464	
5	1459	1462	1465	1464	1465	139
15	1390	1414	1452	1489	1511	411
25	1271	1326	1432	1533	1591	662
35	1116	1217	1407	1579	1684	883
45	910	1077	1379	1807	1973	1075
55	640	895	1161	890	759	822
65	275	441	325	363	380	363
75	26	34	33	50	30	58
85	3	5	5	6	5	6
90	0	0	0	0	0	

PHOTOGRAPH
OF
CUSTOMER
SAMPLE
HERE

ZONAL LUMEN SUMMARY				
ZONE	LUMENS	%LAMP	%FIXT	
0- 30	1212	21.3	27.4	
0- 40	2095	36.8	47.4	
0- 60	3992	70.0	90.4	
0- 90	4418	77.5	100.0	
90-180	0	0.0	0.0	
0-180	4418	77.5	100.0	

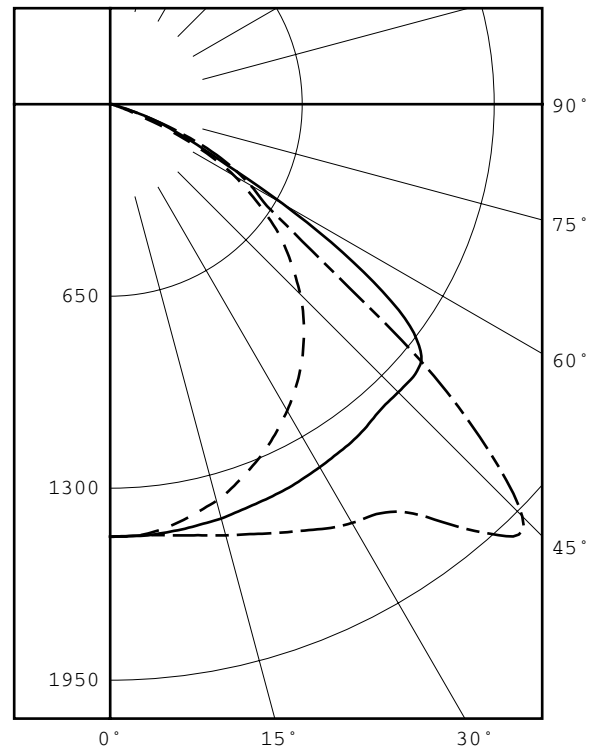
TOTAL LUMINAIRE EFFICIENCY = 77.5 %

CIE TYPE - DIRECT

PLANE : 0-DEG 90-DEG
 SPACING CRITERIA : 1.22 1.94
 SHIELDING ANGLES : 35 30
 LUMINOUS LENGTH : 45.000 21.000

LUMINANCE DATA IN CANDELA/SQ M

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
45	2111.	3199.	4577.
55	1830.	3320.	2170.
65	1067.	1261.	1475.
75	165.	209.	190.
85	56.	94.	94.



LEGEND:
 0-deg -----
 45-deg -----
 90-deg -----

Checked
 Approved
 Lighting Engineer



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CANDELA DISTRIBUTION
 LATERAL ANGLE

	0.0	22.5	45.0	67.5	90.0
0.0	1464	1464	1464	1464	1464
2.5	1464	1465	1464	1463	1463
5.0	1459	1462	1465	1464	1465
7.5	1446	1456	1462	1467	1472
10.0	1429	1444	1459	1473	1482
12.5	1409	1429	1455	1479	1495
15.0	1390	1414	1452	1489	1511
17.5	1364	1394	1445	1499	1527
20.0	1334	1374	1440	1510	1547
22.5	1304	1350	1436	1521	1568
25.0	1271	1326	1432	1533	1591
27.5	1235	1300	1425	1548	1617
30.0	1198	1272	1419	1562	1637
32.5	1158	1246	1412	1573	1651
35.0	1116	1217	1407	1579	1684
37.5	1070	1185	1399	1602	1762
40.0	1020	1151	1387	1657	1877
42.5	968	1118	1379	1748	1984
45.0	910	1077	1379	1807	1973
47.5	846	1038	1380	1769	1741
50.0	784	996	1371	1561	1431
52.5	718	951	1308	1255	1020
55.0	640	895	1161	890	759
57.5	561	820	932	656	614
60.0	486	727	674	521	548
62.5	389	600	447	443	467
65.0	275	441	325	363	380
67.5	158	266	231	282	273
70.0	76	132	165	189	171
72.5	41	61	90	114	79
75.0	26	34	33	50	30
77.5	16	22	19	22	20
80.0	8	12	11	14	12
82.5	6	8	8	10	9
85.0	3	5	5	6	5
87.5	0	1	1	2	1
90.0	0	0	0	0	0



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5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	35
5- 10	104
10- 15	173
15- 20	238
20- 25	301
25- 30	360
30- 35	415
35- 40	468
40- 45	528
45- 50	548
50- 55	474
55- 60	348
60- 65	235
65- 70	128
70- 75	46
75- 80	12
80- 85	5
85- 90	1

10-DEGREE
ZONAL LUMEN SUMMARY

0- 10	139
0- 20	550
0- 30	1212
0- 40	2095
0- 50	3170
0- 60	3992
0- 70	4355
0- 80	4413
0- 90	4418



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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	92	92	92	92	90	90	90	90	86	86	86	82	82	82	79	79	79	78	78
1	86	83	80	77	84	81	78	76	78	76	74	75	73	71	72	71	69	68	68
2	79	73	68	64	77	72	67	64	69	65	62	66	63	61	64	62	59	58	58
3	72	65	59	54	70	63	58	54	61	57	53	59	55	52	57	54	51	49	49
4	66	57	51	46	64	56	50	46	54	49	45	53	48	45	51	47	44	42	42
5	61	51	45	40	59	50	44	39	49	43	39	47	42	39	46	42	38	37	37
6	56	46	39	35	54	45	39	34	44	38	34	43	38	34	41	37	33	32	32
7	52	42	35	30	50	41	35	30	40	34	30	39	34	30	38	33	30	28	28
8	48	38	31	27	47	37	31	27	36	31	27	35	30	26	34	30	26	25	25
9	45	34	28	24	44	34	28	24	33	28	24	32	27	24	32	27	24	22	22
10	42	32	26	22	41	31	25	22	31	25	21	30	25	21	29	25	21	20	20

ALL CANDELA, LUMENS, LUMINANCE, COEFFICIENT OF UTILIZATION AND VCP VALUES IN THIS REPORT ARE BASED ON RELATIVE PHOTOMETRY WHICH ASSUMES A BALLAST FACTOR OF 1.000. ANY CALCULATIONS PREPARED FROM THESE DATA SHOULD INCLUDE AN APPROPRIATE BALLAST FACTOR.