



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

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REPORT NUMBER: ITL REPORT NUMBER

PAGE: 1 OF 4

ISSUE DATE: 01/09/15

PREPARED FOR: ITL CUSTOMER

CATALOG NUMBER: SAMPLE INDOOR - HID TEST - RELATIVE PHOTOMETRY

LUMINAIRE: FABRICATED METAL FRAME, SPUN SPECULAR METAL REFLECTOR, BLACK PAINTED METAL BAFFLE LOWER CONE, OPEN BOTTOM.

LAMP: ONE 70-WATT PHOSPHOR COATED METAL HALIDE, VERTICAL BASE-UP POSITION.

MOUNTING: RECESSED

REPORT IS BASED ON 4800 LUMENS PER LAMP.

DEG	CANDELA	LUMENS
0	4682	
5	3531	314
15	2246	623
25	1473	666
35	710	452
45	234	185
55	7	16
65	3	3
75	1	1
85	0	0
90	0	

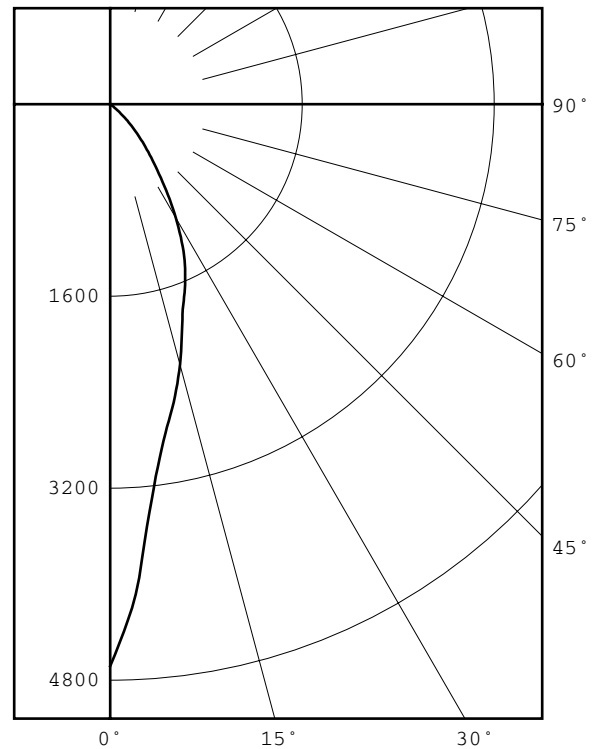


ZONAL LUMEN SUMMARY			
ZONE	LUMENS	%LAMP	%FIXT
0- 30	1602	33.4	70.9
0- 40	2055	42.8	90.9
0- 60	2255	47.0	99.8
0- 90	2260	47.1	100.0
90-180	0	0.0	0.0
0-180	2260	47.1	100.0

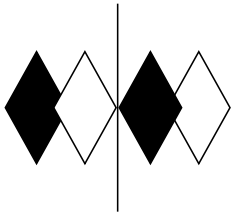
TOTAL LUMINAIRE EFFICIENCY = 47.1 %

CIE TYPE - DIRECT  
 LUMINAIRE SPACING CRITERION = 0.44  
 LUMINOUS DIAMETER: 5.938

LUMINANCE DATA IN CANDELA/SQ M	
ANGLE IN DEG	AVERAGE
45	18525.
55	683.
65	397.
75	216.
85	0.



Checked	.....
Approved	.....
	Lighting Engineer



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CANDELA DISTRIBUTION

0.0	4682
2.5	4201
5.0	3531
7.5	3045
10.0	2730
12.5	2493
15.0	2246
17.5	1989
20.0	1780
22.5	1629
25.0	1473
27.5	1292
30.0	1094
32.5	894
35.0	710
37.5	561
40.0	438
42.5	331
45.0	234
47.5	151
50.0	76
52.5	23
55.0	7
57.5	4
60.0	4
62.5	3
65.0	3
67.5	3
70.0	2
72.5	1
75.0	1
77.5	1
80.0	1
82.5	0
85.0	0
87.5	0
90.0	0



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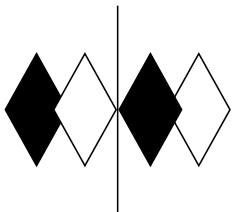
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5-DEGREE  
ZONAL LUMEN SUMMARY

0- 5	96
5- 10	219
10- 15	294
15- 20	328
20- 25	341
25- 30	325
30- 35	264
35- 40	189
40- 45	123
45- 50	62
50- 55	14
55- 60	2
60- 65	2
65- 70	1
70- 75	1
75- 80	1
80- 85	0
85- 90	0

10-DEGREE  
ZONAL LUMEN SUMMARY

0- 10	314
0- 20	937
0- 30	1602
0- 40	2055
0- 50	2239
0- 60	2255
0- 70	2258
0- 80	2260
0- 90	2260



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COEFFICIENTS OF UTILIZATION – ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20

RC	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	56	56	56	56	55	55	55	55	52	52	52	50	50	50	48	48	48	47
1	53	52	51	50	52	51	50	49	49	48	48	48	47	46	46	45	45	44
2	51	49	47	45	50	48	46	45	46	45	44	45	44	43	44	43	42	41
3	48	45	43	41	47	45	43	41	44	42	40	42	41	40	41	40	39	38
4	46	43	40	38	45	42	40	38	41	39	37	40	38	37	39	38	37	36
5	44	40	37	35	43	39	37	35	39	36	35	38	36	34	37	35	34	33
6	42	38	35	33	41	37	35	33	36	34	32	36	34	32	35	33	32	31
7	40	35	33	31	39	35	32	31	34	32	30	34	32	30	33	32	30	29
8	38	33	31	29	37	33	31	29	33	30	29	32	30	28	32	30	28	28
9	36	32	29	27	36	31	29	27	31	29	27	31	28	27	30	28	27	26
10	34	30	27	26	34	30	27	26	29	27	25	29	27	25	29	27	25	25

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.