

**REPORT NUMBER:** ITL90150-GONIOPHOTOMETRY

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**ISSUE DATE:** 01/23/18

**PREPARED FOR:** LITELAB CORPORATION

**CATALOG NUMBER:** A75-L1800-9230-735-A-DY-P

DEG	CANDELA	LUMENS
0	9912	
5	6297	471
15	693	214
25	70	34
35	31	20
45	13	11
55	9	7
65	3	3
75	2	2
85	0	1
90	0	

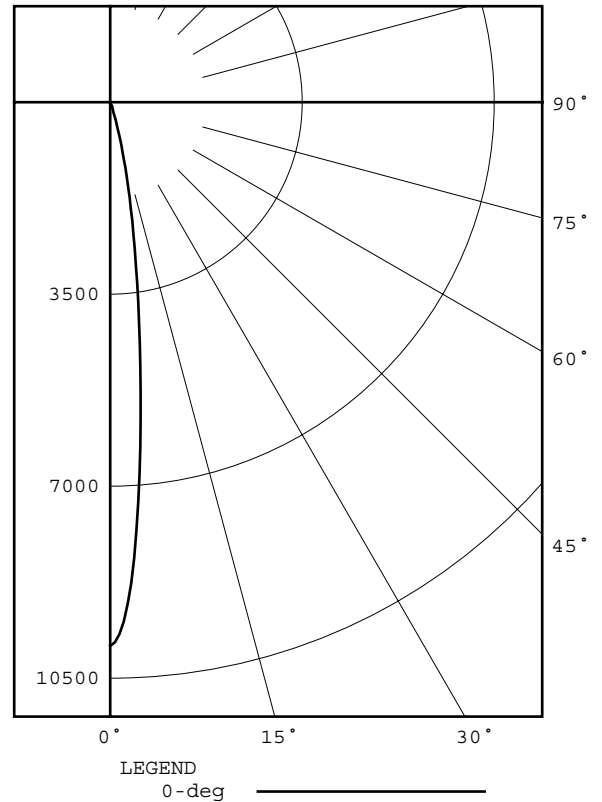
**ZONAL LUMEN SUMMARY**

ZONE	LUMENS	%FIXT
0- 30	718	94.3
0- 40	738	96.8
0- 60	756	99.2
0- 90	762	100.0
90-180	0	0.0
0-180	762	100.0

EFFICACY = 34.6 lm/W  
 CIE TYPE - DIRECT  
 SPACING CRITERION: 0.22  
 BEAM ANGLE (50%) : 12.8 DEGREES  
 FIELD ANGLE (10%) : 27.6 DEGREES  
 LUMINOUS DIAMETER: 2.875

**LUMINANCE DATA IN CANDELA/SQ M**  
**ANGLE AVERAGE**  
**IN DEG**

45	4390.
55	3746.
65	1695.
75	1845.
85	0.





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

PHONE: (303) 442-1255 • FAX: (970) 535-3114 • E-MAIL: itl@itlboulder.com • WEBSITE: www.itlboulder.com

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CANDELA DISTRIBUTION

0.0	9912	82.5	1
0.5	9846	85.0	0
1.0	9695	87.5	0
1.5	9470	90.0	0
2.0	9138		
2.5	8771		
3.0	8321		
3.5	7840		
4.0	7325		
4.5	6806		
5.0	6297		
5.5	5804		
6.0	5304		
6.5	4862		
7.0	4429		
7.5	4030		
8.0	3657		
8.5	3312		
9.0	2993		
9.5	2707		
10.0	2445		
10.5	2201		
11.0	1972		
11.5	1769		
12.0	1572		
12.5	1390		
13.0	1221		
13.5	1070		
14.0	933		
14.5	809		
15.0	693		
16.0	483		
17.0	311		
18.0	196		
19.0	146		
20.0	123		
22.5	93		
25.0	70		
27.5	53		
30.0	43		
32.5	36		
35.0	31		
37.5	27		
40.0	22		
42.5	17		
45.0	13		
47.5	11		
50.0	10		
52.5	9		
55.0	9		
57.5	7		
60.0	6		
62.5	4		
65.0	3		
67.5	2		
70.0	2		
72.5	2		
75.0	2		
77.5	2		
80.0	2		



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5-DEGREE ZONAL LUMEN SUMMARY		
0- 5	189	
5- 10	282	
10- 15	165	
15- 20	49	
20- 25	20	
25- 30	14	
30- 35	11	
35- 40	9	
40- 45	6	
45- 50	5	
50- 55	4	
55- 60	3	
60- 65	2	
65- 70	1	
70- 75	1	
75- 80	1	
80- 85	1	
85- 90	0	

10-DEGREE ZONAL LUMEN SUMMARY		
0- 10	471	
0- 20	685	
0- 30	718	
0- 40	738	
0- 50	749	
0- 60	756	
0- 70	759	
0- 80	761	
0- 90	762	



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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	116	116	116	116	111	111	111	111	106	106	106	102	102	102	100
1	116	114	112	110	113	112	110	109	108	106	105	104	103	102	101	100	99	99	98
2	112	109	107	104	110	108	105	103	104	103	101	102	100	99	99	98	97	97	95
3	110	105	102	100	108	104	101	99	102	99	98	100	98	96	97	96	95	94	94
4	107	102	99	96	105	101	98	96	99	97	95	98	96	94	96	94	93	92	92
5	105	100	96	94	103	99	96	93	97	95	93	96	94	92	95	93	91	90	90
6	102	97	94	91	101	97	93	91	95	93	91	94	92	90	93	91	89	89	89
7	101	95	92	89	100	95	92	89	94	91	89	93	90	88	92	90	88	87	87
8	99	93	90	88	98	93	90	88	92	89	87	91	89	87	91	88	87	86	86
9	97	92	89	86	96	91	88	86	91	88	86	90	88	86	89	87	86	85	85
10	96	90	87	85	95	90	87	85	89	87	85	89	86	85	88	86	84	84	84

ALL CANDELA, LUMENS, LUMINANCE, AND VCP VALUES IN THIS REPORT ARE BASED ON ABSOLUTE PHOTOMETRY. THE COEFFICIENT OF UTILIZATION VALUES ARE BASED ON THE TOTAL ABSOLUTE LUMEN OUTPUT OF THIS TEST SAMPLE.

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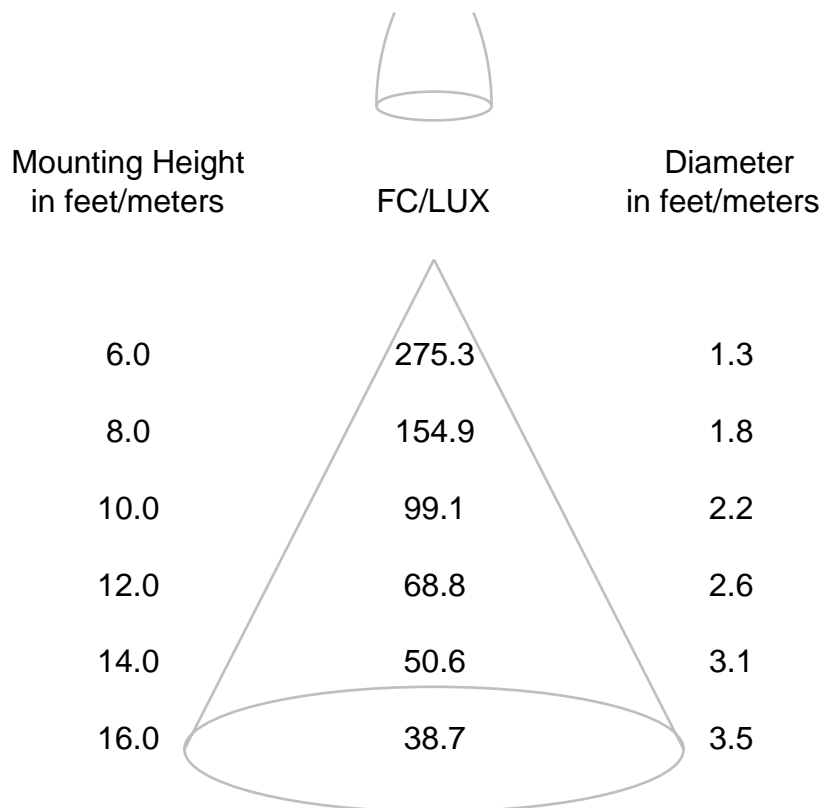
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## CONE OF LIGHT DIAGRAM

(diameter shown is where fc/lux value is half the fc/lux at nadir)



If distances are feet, results are footcandles.  
If distances are meters, results are lux.