

**REPORT NUMBER:** ITL94755-GONIOPHOTOMETRY

**PAGE:** 2 OF 6

**ISSUE DATE:** 05/28/21

**PREPARED FOR:** LITELAB CORPORATION

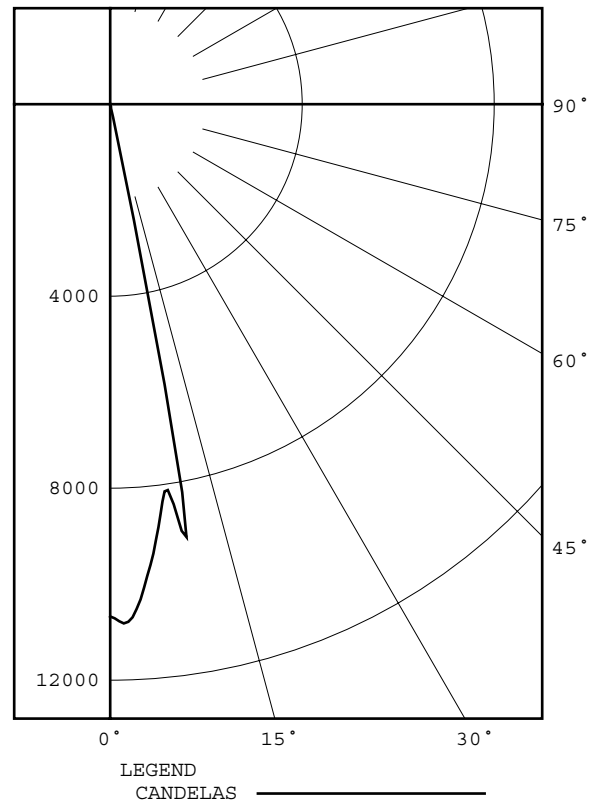
**CATALOG NUMBER:** C74L1800-9TC-DY-A-9230-P-22

DEG	CANDELA	LUMENS
0	10672	
5	9634	869
15	50	231
25	8	5
35	4	2
45	2	1
55	1	1
65	0	0
75	0	0
85	0	0
90	0	0

ZONAL LUMEN SUMMARY		
ZONE	LUMENS	%FIXT
0- 30	1104	99.6
0- 40	1106	99.8
0- 60	1108	100.0
0- 90	1109	100.0
90-180	0	0.0
0-180	1109	100.0

EFFICACY = 45.5 lm/W  
 CIE TYPE - DIRECT  
 SPACING CRITERION: 0.29  
 BEAM ANGLE (50%) : 22.2 DEGREES  
 FIELD ANGLE (10%) : 23.6 DEGREES  
 LUMINOUS DIAMETER: 2.125

LUMINANCE DATA IN CANDELA/SQ M	
ANGLE	AVERAGE
IN DEG	
45	1236.
55	762.
65	0.
75	0.
85	0.





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

**REPORT NUMBER:** ITL94755-GONIOPHOTOMETRY

**PAGE:** 3 OF 6

**ISSUE DATE:** 05/28/21

**PREPARED FOR:** LITELAB CORPORATION

**CATALOG NUMBER:** C74L1800-9TC-DY-A-9230-P-22

CANDELA DISTRIBUTION

0.0	10672	82.5	0
0.5	10713	85.0	0
1.0	10776	87.5	0
1.5	10821	90.0	0
2.0	10791		
2.5	10699		
3.0	10533		
3.5	10338		
4.0	10096		
4.5	9860		
5.0	9634		
5.5	9402		
6.0	9117		
6.5	8869		
7.0	8597		
7.5	8350		
8.0	8145		
8.5	8126		
9.0	8435		
9.5	9013		
10.0	9156		
10.5	8222		
11.0	5947		
11.5	2468		
12.0	283		
12.5	139		
13.0	84		
13.5	64		
14.0	58		
14.5	53		
15.0	50		
16.0	44		
17.0	40		
18.0	34		
19.0	29		
20.0	23		
22.5	12		
25.0	8		
27.5	7		
30.0	5		
32.5	4		
35.0	4		
37.5	3		
40.0	3		
42.5	2		
45.0	2		
47.5	1		
50.0	1		
52.5	1		
55.0	1		
57.5	1		
60.0	1		
62.5	0		
65.0	0		
67.5	0		
70.0	0		
72.5	0		
75.0	0		
77.5	0		
80.0	0		



NVLAP LAB CODE: 200925-0

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

REPORT NUMBER: ITL94755-GONIOPHOTOMETRY

PAGE: 4 OF 6

ISSUE DATE: 05/28/21

PREPARED FOR: LITELAB CORPORATION

CATALOG NUMBER: C74L1800-9TC-DY-A-9230-P-22

5-DEGREE ZONAL LUMEN SUMMARY

0- 5	246
5- 10	623
10- 15	225
15- 20	6
20- 25	3
25- 30	2
30- 35	1
35- 40	1
40- 45	1
45- 50	1
50- 55	0
55- 60	0
60- 65	0
65- 70	0
70- 75	0
75- 80	0
80- 85	0
85- 90	0

10-DEGREE ZONAL LUMEN SUMMARY

0- 10	869
0- 20	1099
0- 30	1104
0- 40	1106
0- 50	1107
0- 60	1108
0- 70	1109
0- 80	1109
0- 90	1109



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

REPORT NUMBER: ITL94755-GONIOPHOTOMETRY

PAGE: 5 OF 6

ISSUE DATE: 05/28/21

PREPARED FOR: LITELAB CORPORATION

CATALOG NUMBER: C74L1800-9TC-DY-A-9230-P-22

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	115	113	112	114	113	111	110	109	108	107	105	104	104	102	101	101	101	99
2	114	111	109	107	112	110	108	106	107	105	104	104	103	102	101	100	100	100	98
3	112	108	106	104	110	107	105	103	105	103	101	103	101	100	101	99	98	98	97
4	110	106	103	101	108	105	103	101	103	101	100	102	100	99	100	99	98	98	97
5	108	104	101	99	107	103	101	99	102	100	98	101	99	97	99	98	97	97	96
6	107	103	100	98	106	102	99	98	101	99	97	100	98	96	99	97	96	96	95
7	105	101	99	97	105	101	98	96	100	98	96	99	97	96	98	96	95	95	95
8	104	100	97	96	103	100	97	95	99	97	95	98	96	95	97	96	95	95	94
9	103	99	96	95	102	99	96	95	98	96	94	97	95	94	97	95	94	94	93
10	102	98	96	94	101	98	95	94	97	95	94	97	95	93	96	94	93	93	93

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.

**REPORT NUMBER:** ITL94755-GONIOPHOTOMETRY

**PAGE:** 6 OF 6

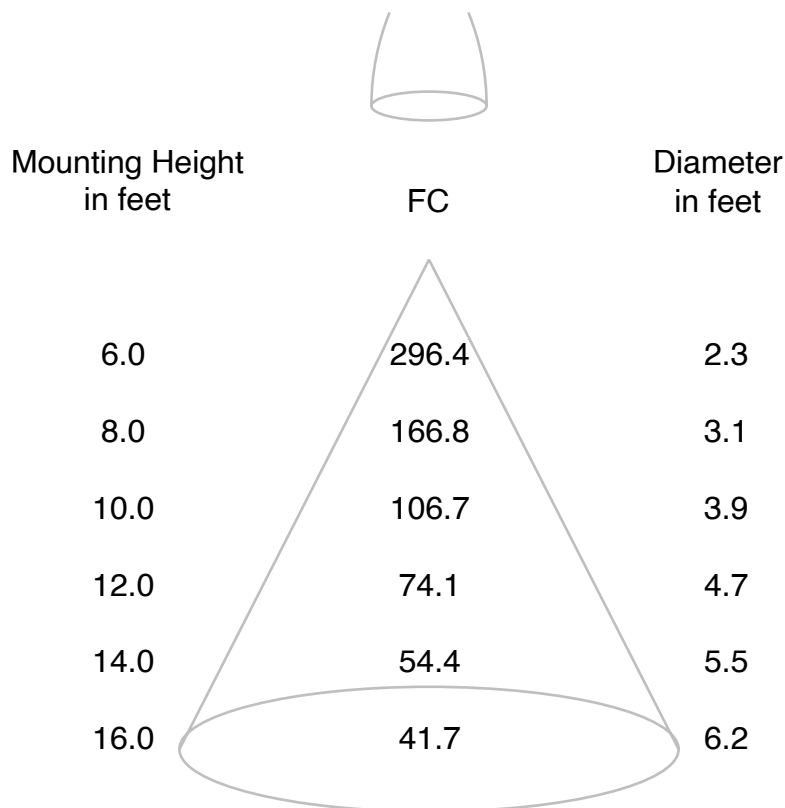
**ISSUE DATE:** 05/28/21

**PREPARED FOR:** LITELAB CORPORATION

**CATALOG NUMBER:** C74L1800-9TC-DY-A-9230-P-22

## 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.