



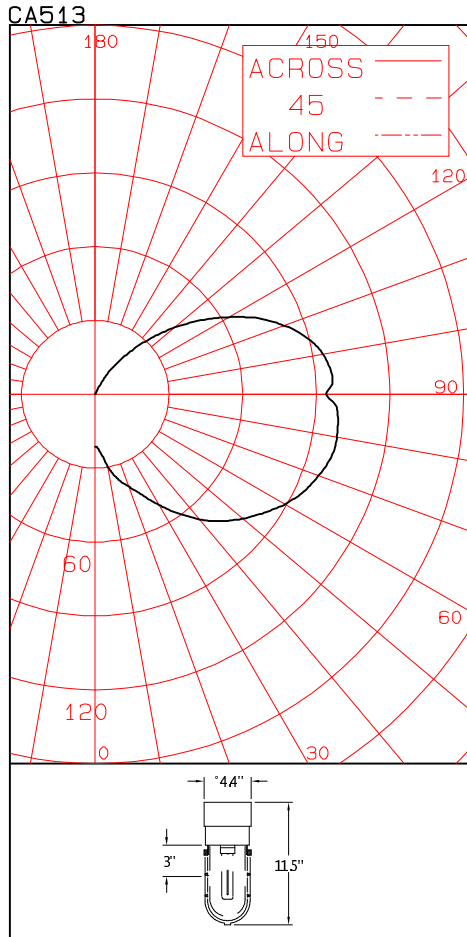
# LIGHTING SCIENCES CANADA LTD.

440 Phillip St., Unit 19, Waterloo, Ontario, Canada N2L 5R9  
 Tel: (519) 746-3140 Fax: (519) 746-3156 lsc@lightingsciences.ca

CERTIFIED TEST REPORT NO. LSC A513  
 COMPUTED BY LSC PROGRAM \*\*TEST-LITE\*\*

IPEX NON-METALLIC CEILING MOUNT LIGHT FIXTURE CAT. NO. LVPL18C  
 WITH CLEAR GLASS JAR LENS AND PLASTIC PROTECTIVE GUARD  
 ONE 18W QUAD COMPACT FLUORESCENT LAMP. LUMEN RATING = 1250 LMS.  
 ONE HATCH 120V 1-LAMP ELECTRONIC BALLAST NO. FR-1800

### CANDLEPOWER SUMMARY



ANGLE	MEAN CP	LMS.	ANGLE	MEAN CP	LMS.
0	21		90	94	
5	24	3	95	97	104
10	30		100	94	
15	36	10	105	89	94
20	40		110	82	
25	45	21	115	73	72
30	52		120	63	
35	59	37	125	52	47
40	66		130	42	
45	73	56	135	32	25
50	79		140	23	
55	84	75	145	16	10
60	89		150	9	
65	94	93	155	2	2
70	97		160	0	
75	99	105	165	0	0
80	100		170	0	
85	99	107	175	0	0
90	94		180	0	

### ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LAMP	%LUMINAIRE
0-30	33	2.71	3.93
0-40	71	5.69	8.25
0-60	202	16.23	23.52
0-90	507	40.59	58.82
40-90	436	34.90	50.58
60-90	304	24.36	35.31
90-180	355	28.41	41.18
0-180	862	69.00	100.00

\*\* EFFICIENCY = 69.0% \*\*

LUMINANCE SUMMARY-CD. / SQ. M.

S/MH = 3.6  
 SC = 3.4

ANGLE	MEAN CD/SQ M
45	5907
55	6470
65	7097
75	7620
85	7945

CERTIFIED BY:

*Charles Sison*

DATE:  
 DEC 13, 2004

PREPARED FOR:

IPEX INC.  
 MISSISSAUGA, ONTARIO

TESTED ACCORDING TO IES PROCEDURES. TEST DISTANCE EXCEEDS FIVE TIMES THE GREATEST LUMINOUS OPENING OF LUMINAIRE.

LIGHTING SCIENCES CANADA LTD.  
440 PHILLIP ST., UNIT 19  
WATERLOO, ONTARIO

CERTIFIED TEST REPORT NO. LSC A513  
COMPUTED BY LSC PROGRAM \*\*TEST-LITE\*\*

IPEX NON-METALLIC CEILING MOUNT LIGHT FIXTURE CAT. NO. LVPL18C  
WITH CLEAR GLASS JAR LENS AND PLASTIC PROTECTIVE GUARD  
ONE 18W QUAD COMPACT FLUORESCENT LAMP. LUMEN RATING = 1250 LMS.  
ONE HATCH 120V 1-LAMP ELECTRONIC BALLAST NO. FR-1800

CANDLEPOWER DATA

ANGLE	CANDLEPOWER	LUMENS
0	21	
5	24	3
10	30	
15	36	10
20	40	
25	45	21
30	52	
35	59	37
40	66	
45	73	56
50	79	
55	84	75
60	89	
65	94	93
70	97	
75	99	105
80	100	
85	99	107
90	94	
95	97	104
100	94	
105	89	94
110	82	
115	73	72
120	63	
125	52	47
130	42	
135	32	25
140	23	
145	16	10
150	9	
155	2	2
160	0	
165	0	0
170	0	
175	0	0
180	0	

LIGHTING SCIENCES CANADA LTD.  
440 PHILLIP ST., UNIT 19  
WATERLOO, ONTARIO

CERTIFIED TEST REPORT NO. LSC A513  
COMPUTED BY LSC PROGRAM \*\*TEST-LITE\*\*

IPEX NON-METALLIC CEILING MOUNT LIGHT FIXTURE CAT. NO. LVPL18C  
WITH CLEAR GLASS JAR LENS AND PLASTIC PROTECTIVE GUARD  
ONE 18W QUAD COMPACT FLUORESCENT LAMP. LUMEN RATING = 1250 LMS.  
ONE HATCH 120V 1-LAMP ELECTRONIC BALLAST NO. FR-1800

AVERAGE LUMINANCE DATA

ANGLE	LUMINANCE
0	3430 ( 1001)
30	4845 ( 1414)
40	5586 ( 1630)
45	5907 ( 1724)
50	6193 ( 1807)
55	6470 ( 1888)
60	6804 ( 1986)
65	7097 ( 2071)
70	7346 ( 2144)
75	7620 ( 2224)
80	7802 ( 2277)
85	7945 ( 2319)

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES

LIGHTING SCIENCES CANADA LTD.  
 440 PHILLIP ST., UNIT 19  
 WATERLOO, ONTARIO

CERTIFIED TEST REPORT NO. LSC A513  
 COMPUTED BY LSC PROGRAM \*\*TEST-LITE\*\*

IPEX NON-METALLIC CEILING MOUNT LIGHT FIXTURE CAT. NO. LVPL18C  
 WITH CLEAR GLASS JAR LENS AND PLASTIC PROTECTIVE GUARD  
 ONE 18W QUAD COMPACT FLUORESCENT LAMP. LUMEN RATING = 1250 LMS.  
 ONE HATCH 120V 1-LAMP ELECTRONIC BALLAST NO. FR-1800

COEFFICIENTS OF UTILIZATION

ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE = .20

CC WALL	80				70				50				30				10				0	
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	.75	.75	.75	.75	.70	.70	.70	.70	.61	.61	.61	.52	.52	.52	.44	.44	.44	.44	.41			
1	.65	.60	.56	.52	.60	.56	.52	.48	.47	.44	.42	.40	.37	.35	.33	.31	.29	.29	.26			
2	.57	.50	.44	.39	.53	.46	.41	.36	.39	.35	.31	.32	.29	.26	.26	.24	.21	.21	.18			
3	.51	.42	.36	.30	.47	.39	.33	.28	.33	.28	.24	.27	.23	.20	.22	.19	.16	.16	.13			
4	.46	.37	.30	.25	.42	.34	.28	.23	.28	.23	.19	.23	.19	.16	.19	.16	.13	.13	.10			
5	.42	.32	.25	.20	.38	.30	.23	.19	.25	.20	.16	.20	.16	.13	.16	.13	.10	.10	.08			
6	.38	.28	.21	.17	.35	.26	.20	.15	.22	.17	.13	.18	.14	.11	.14	.11	.08	.08	.06			
7	.35	.25	.18	.14	.32	.23	.17	.13	.19	.14	.11	.16	.12	.09	.13	.09	.07	.07	.05			
8	.32	.22	.16	.12	.29	.21	.15	.11	.17	.13	.09	.14	.10	.07	.11	.08	.06	.06	.04			
9	.30	.20	.14	.10	.27	.19	.13	.09	.16	.11	.08	.13	.09	.06	.10	.07	.05	.05	.03			
10	.28	.18	.12	.09	.25	.17	.12	.08	.14	.10	.07	.12	.08	.05	.09	.06	.04	.04	.03			

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES  
 LUMINAIRE INPUT WATTS = 17.6  
 LABORATORY RESULT MAY NOT BE REPRESENTATIVE OF FIELD PERFORMANCE.  
 BALLAST FACTORS HAVE NOT BEEN APPLIED.