



Lighting Engineers

Photometric Research & Development Laboratory

P.O. Box 127, Condell Park NSW 2200
A.C.N. 002320 649
Phone: 02 9791 0972
Fax: 02 9791 9898

Test Report No. PH 619

Date: 1 September 2004

Client: Harcroft Lighting Pty Ltd
3 Welder Road,
Seven Hills N.S.W. 2147

Subject: Harcroft Lighting Recessed T-Bar Indoor Luminaire Cat. No. TB228-Λ19, Incorporating Two 28 W TL5 Tubular Fluorescent Lamps and a Λ19 Diffuser.

Nature of Test: Photometric Performance

Luminaire Description:

Style: Recessed T-Bar

Cat. No.: TB228-Λ19

Optical Control: White (gloss) painted internal housing and control gear cover, Λ19 diffuser.

Lamp: Two 28 W Sylvania "Luxline Plus" TL5 Tubular Fluorescent Type FHE 28W/T5/840

Rated Luminous Flux: 2 900 lumens per lamp

Control Equipment:

Ballast: One Tridonic Cat. No. PC 2/28 T5 PRO, 220-240 V, 50/60 Hz

Test Method

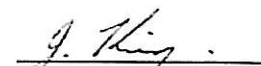
The luminaire was tested generally in accordance with the procedures given in AS 1680.3 - 1991, Measurement, calculation and presentation of photometric data".

The intensity values in this report are based on the lamp delivering a total of 1 000 lumens. When using these values in calculations, the manufacturer's rated total lumens must be taken into account.

$$\text{E.g. Intensity (cd)} = \frac{\text{cd}/1000 * 5\ 800}{1\ 000}$$

The data specified in this report apply to the luminaire with the components nominated, and will not necessarily be applicable to the use of other lamp sizes or ratings, nor to any other luminaire of similar design. The data are based on operation of the luminaire under laboratory conditions. Multiplying factors to correct the data for actual working conditions should be used when applicable.

Note: The term "LOR" used in this report denotes the "Light Output Ratio Luminaire (LORL)" as defined in Clause 1.3.9 of Australian Standard AS 1680.3-1991.


R & D Engineer

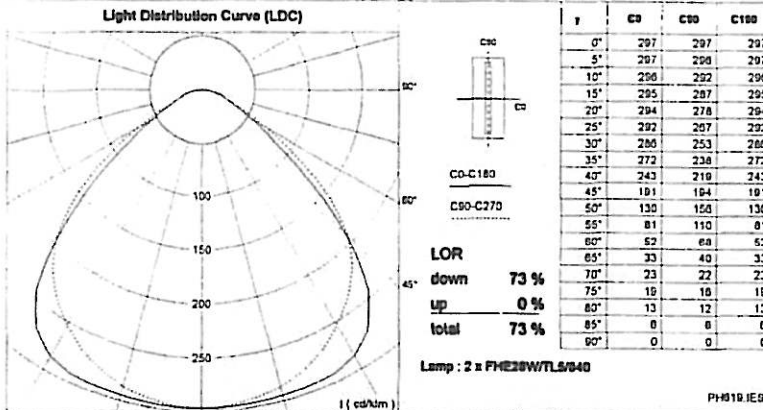


Visi-Tech International
 3 Harley Crescent,
 Condell Park Sydney
 NSW
 Ph: 02 9791 9999 Fax: 02 9791 9898
 sales@wadco.com.au

Date : 31/08/04

PH619/VISI-TECH TB228-A19

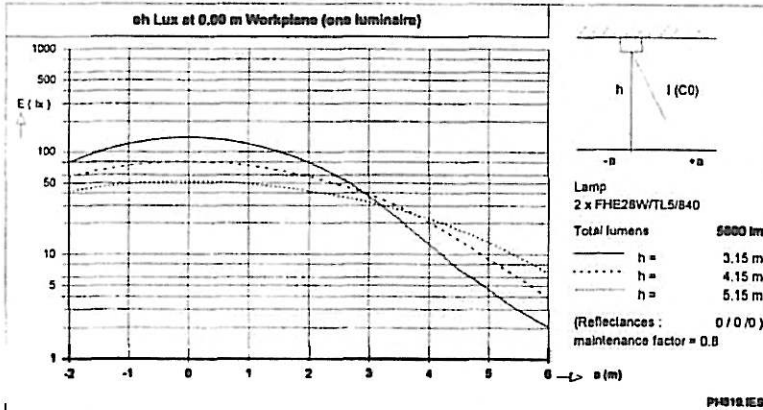
HARCROFT



Utilisation Table (TMS) PH619.IES

Reflectances			Room Index									
C	W	F	0.75	1.0	1.25	1.5	2.0	2.5	3.0	4.0	5.0	
70	50	20	46	53	59	62	67	70	72	75	77	
70	30	20	41	49	54	58	63	66	69	72	75	
70	10	20	37	45	50	54	60	64	66	70	73	
50	50	20	45	52	57	60	65	68	69	72	74	
50	30	20	40	48	53	56	61	65	67	70	72	
50	10	20	37	44	50	53	59	62	65	68	70	
30	50	20	44	51	55	58	63	65	67	69	71	
30	30	20	40	47	52	55	60	63	65	68	70	
30	10	20	37	44	49	53	57	61	63	66	68	
0	0	0	35	42	47	50	55	58	60	63	65	
BZ-class			3	3	3	3	3	3	3	3	3	

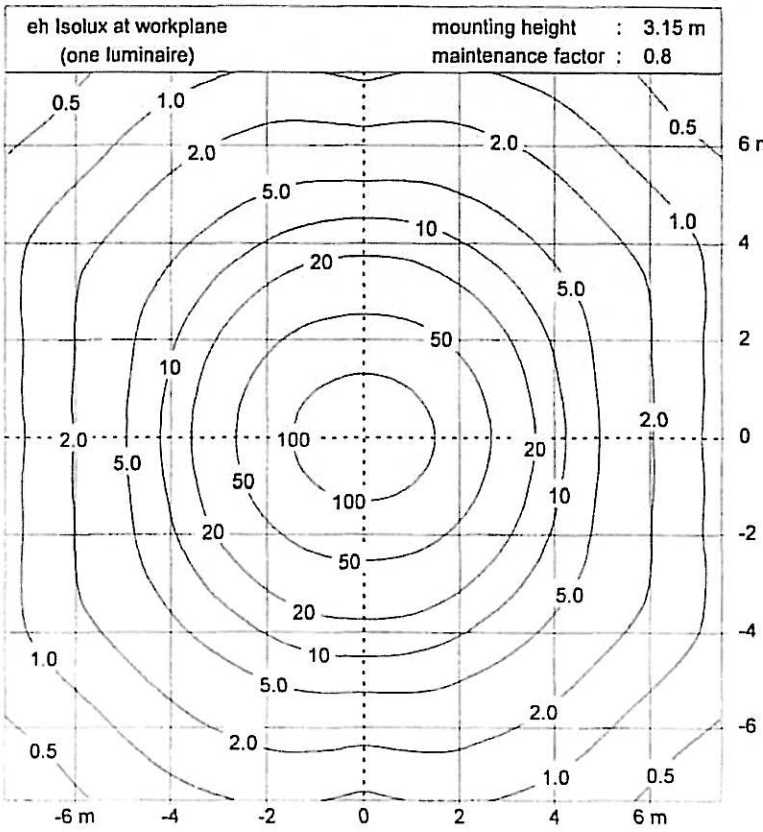
SHmin : 1.25 SHmax : 1.478



Number of Luminaires in Rooms : (Ref. 50/30/20)

Em lx	Lph lm	2 x FHE28W/TL5/840 / 5800 lm HARCROFT							
		Room Area / m²							
		20	30	40	50	70	80	90	100
300	3.15	4	5	6	7	9	10	11	12
	4.15	5	6	8	9	11	12	13	14
	5.15	5	7	9	10	12	13	15	16
400	3.15	5	7	8	10	12	13	15	16
	4.15	6	8	10	11	14	16	17	18
	5.15	6	9	12	13	16	18	19	21
500	3.15	7	9	10	12	15	17	18	20
	4.15	7	10	12	14	18	19	21	22
	5.15	7	11	14	17	20	22	24	26

Maintained eh Lux (Maintenance Factor = 0.8)



Glare Table - AS1680.1 1990 (TM10) PH619.IES

n-ceiling	70	50	50	30	70	50	50	30
n-wall	30	50	30	30	30	50	30	30
n-floor	20	20	20	20	20	20	20	20

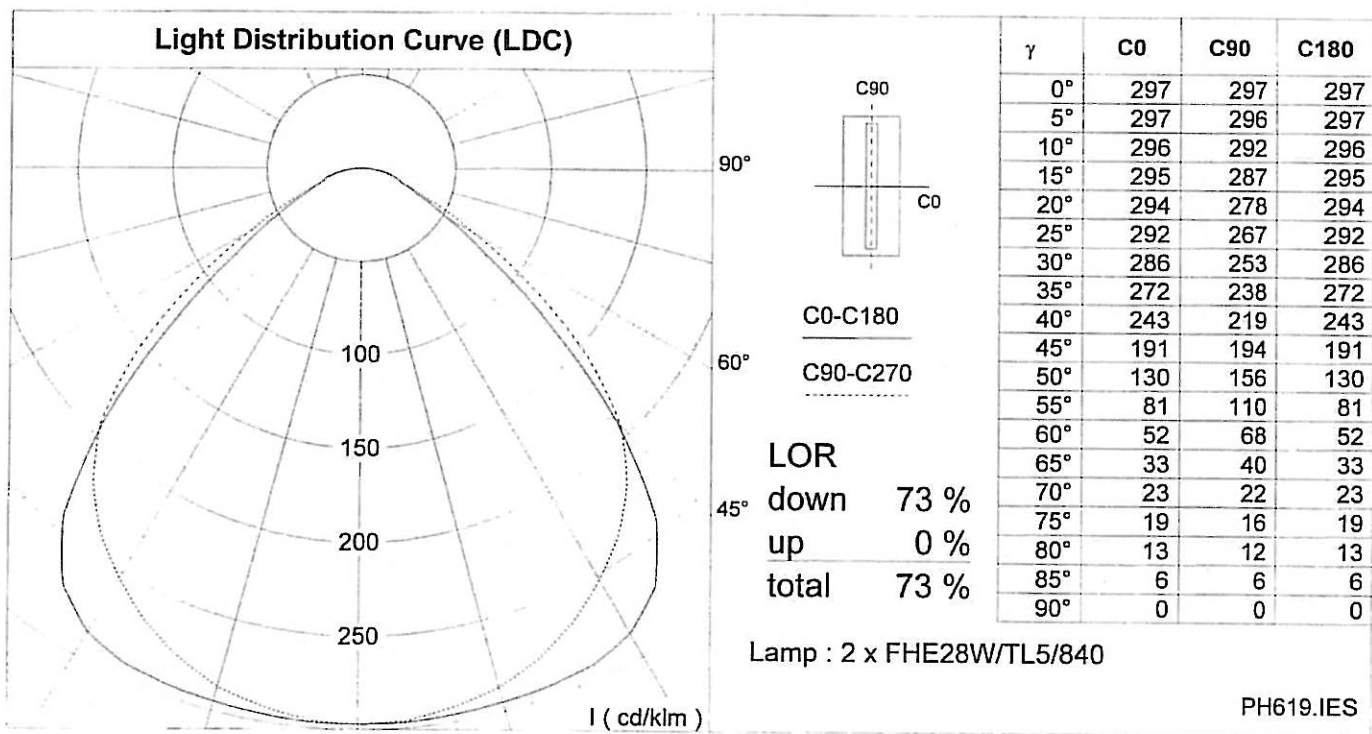
room size X Y	viewed crosswise to lamp axis	viewed parallel to lamp axis			
		2H	3H	4H	6H
2H	2H	15.8	14.4	16.2	16.6
	3H	16.8	15.6	17.2	17.7
	4H	17.3	16.2	17.7	18.2
	6H	17.8	16.9	18.3	18.8
4H	2H	16.5	15.4	16.9	17.4
	3H	18.0	17.2	18.5	19.0
	4H	18.7	18.0	19.2	19.7
	6H	19.3	18.8	19.8	20.4
8H	2H	18.1	17.2	18.5	19.0
	3H	18.2	17.4	18.7	19.2
	4H	19.9	19.6	20.4	21.1
	6H	19.9	19.7	20.5	21.1
12H	2H	20.4	20.4	21.1	21.7
	3H	20.8	20.9	21.5	22.1
	4H	19.1	18.8	19.7	20.3
	6H	20.1	20.0	20.7	21.3
12H	2H	20.6	20.7	21.3	21.9
	3H	21.5	21.6	22.2	22.8

Corrected Values for a Lamp Flux of 5800 lm

All data generated from photometric file



Visi-Tech International
 3 Harley Crescent,
 Condell Park Sydney
 NSW
 Ph: 02 9791 9999 Fax: 02 9791 9999
 sales@wadco.com.au



TB228-A19

HARCROFT