



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 440THO.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-1995  
 [DATE]11/16/98  
 [TEST]ITL48511  
 [MANUFAC]LDPI COMPANY DIVISION OF LPI INC.  
 [LUMCAT]390440THO  
 [LUMINAIRE]FABRICATED METAL HOUSING WITH WHITE PAINTED GENERAL INTERIOR  
 [MORE]FINISH, FORMED METAL REFLECTOR WITH SPECULAR FILM FINISH, CLEAR  
 [MORE]FLAT TEXTURED GLASS LENS IN WHITE PAINTED FABRICATED METAL DOOR  
 [MORE]FRAME.  
 [LAMP]FOUR 54-WATT T-5 FP54/835/HO LINEAR FLUORESCENTS.  
 [BALLAST]TWO SYLVANIA QT 2X54/120PHO  
 [\_ MOUNTING]SURFACE  
 [OTHER]THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.  
 [OTHER]TOTAL INPUT WATTS= 246.0 AT 120.0 VOLTS  
 [OTHER]LUMEN TO CANDELA RATIO USED= 9.17

**CHARACTERISTICS**

Total Rated Lamp Lumens	20000 (4 lamps)
Total Luminaire Efficiency	87.2 %
CIE Type	Direct
Spacing Criteria (0-180)	1.26
Spacing Criteria (90-270)	1.66
Spacing Criteria (Diagonal)	1.62
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.65 ft
Luminous Width (90-270)	1.49 ft
Luminous Height	0.00 ft

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	8944	12669	13730
55	8196	12242	13751
65	6850	10763	12356
75	5027	8163	9349
85	2295	3771	4226

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-30	4428.87	22.1	25.4
0-40	7553.29	37.8	43.3
0-60	13943.55	69.7	80
0-90	17431.37	87.2	100
90-120	0	0	0
90-130	0	0	0
90-150	0	0	0
90-180	0	0	0
0-180	17431.37	87.2	100

Total Luminaire Efficiency = 87.2%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	479.9
10-20	1491.62
20-30	2457.36
30-40	3124.43
40-50	3348.22
50-60	3042.03
60-70	2187.72
70-80	1083.62
80-90	216.48
90-100	0
100-110	0
110-120	0
120-130	0
130-140	0
140-150	0
150-160	0
160-170	0
170-180	0

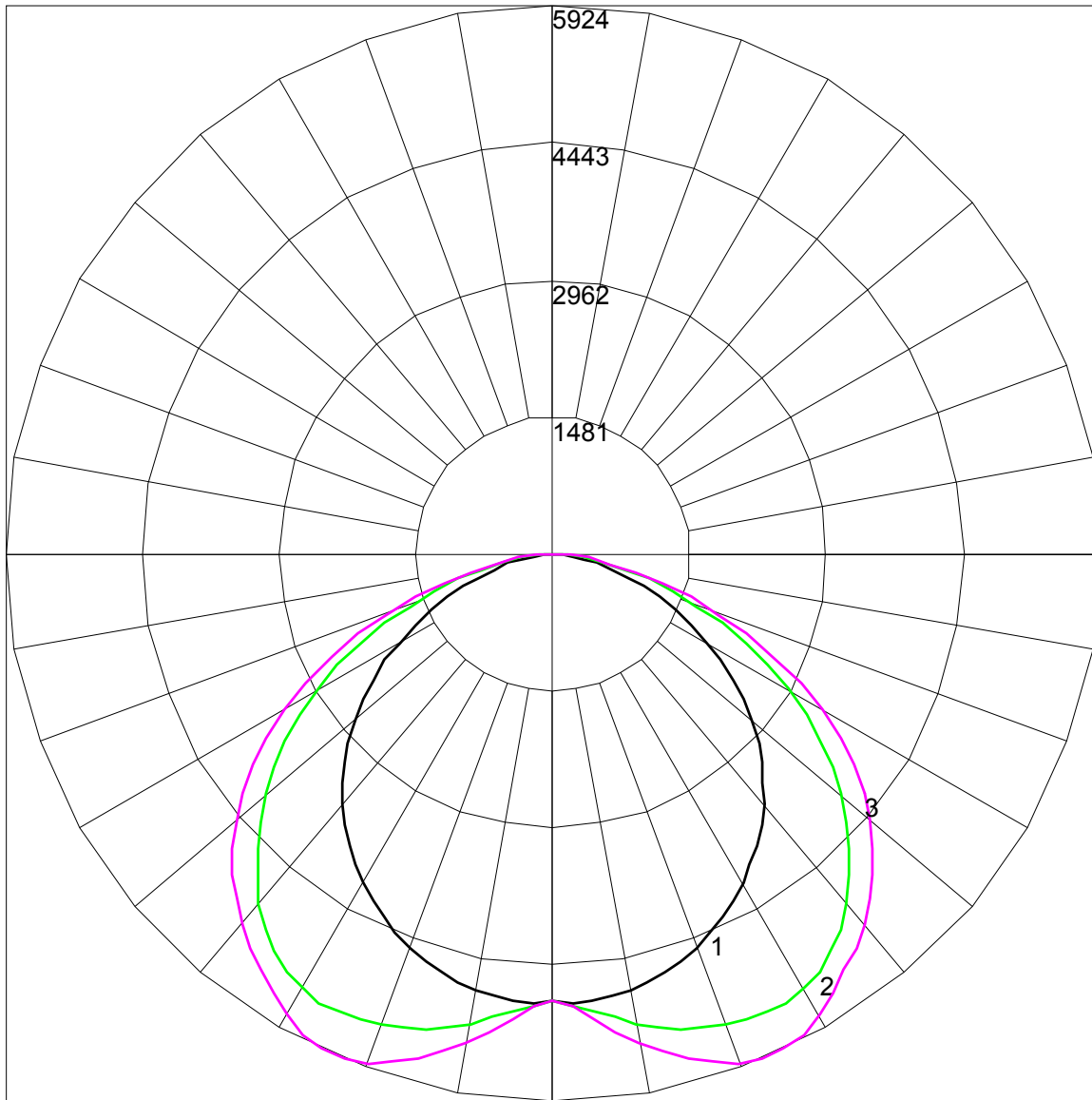
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	104	104	104	104	101	101	101	101	97	97	97	93	93	93	89	89	89	87
1	95	91	87	84	93	89	86	82	85	82	80	82	80	77	79	77	75	73
2	86	79	73	68	84	77	72	67	74	70	66	71	68	64	69	66	63	61
3	78	69	62	56	76	68	61	56	65	60	55	63	58	54	61	56	53	51
4	72	61	53	47	70	60	53	47	58	51	46	56	50	46	54	49	45	43
5	66	54	46	41	64	53	46	40	52	45	40	50	44	39	48	43	39	37
6	61	49	41	35	59	48	40	35	46	40	35	45	39	34	43	38	34	32
7	56	44	36	31	54	43	36	31	42	35	31	41	35	30	40	34	30	28
8	52	40	33	27	51	39	32	27	38	32	27	37	31	27	36	31	27	25
9	49	37	29	24	47	36	29	24	35	29	24	34	28	24	33	28	24	22
10	45	34	27	22	44	33	27	22	32	26	22	32	26	22	31	25	22	20

POLAR GRAPH



Maximum Candela = 5924 Located At Horizontal Angle = 90, Vertical Angle = 22.5

# 1 - Vertical Plane Through Horizontal Angles (0 - 180)

# 2 - Vertical Plane Through Horizontal Angles (45 - 225)

# 3 - Vertical Plane Through Horizontal Angles (90 - 270)