



LTL NUMBER: 06294

DATE: 11-29-2001

PREPARED FOR: PRECISION ARCHITECTURAL LIGHTING

CATALOG NUMBER: LMP02-4-W-OP-X-120-T8

LUMINAIRE: EXTRUDED ALUMINUM HOUSING, FORMED WHITE ENAMEL ALUMINUM REFLECTOR, PERFORATED SECTION WITH TRANSLUCENT WHITE ACRYLIC INSERT, OPEN TOP.

LAMPS: TWO PHILIPS F32T8/TL841 RATED AT 2850 LUMENS EACH.

BALLAST: ONE ENERGY SAVINGS ES-2/1-T8-32/25/17/15-UNV-A-IS

MOUNTING: WALL

LUMEN TO CANDELA RATIO USED = 9.18

TOTAL INPUT WATTS = 55.7 AT 120.0 VOLTS

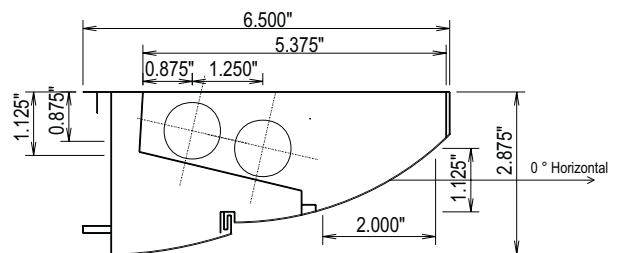
THE 0 DEGREE PLANE IS PERPENDICULAR TO THE LAMPS.

Table with columns: CANDELA DISTRIBUTION (0.0 to 180.0) and FLUX (4 to 1358). Rows show candlepower values at various angles.

ZONAL LUMEN SUMMARY

Table with columns: ZONE, LUMENS, %LAMP, %FIXT. Rows show lumen and lamp percentages for various zones.

#06294



TOTAL LUMINAIRE EFFICIENCY: 77.3%
TOTAL REFLECTANCE OF PAINT: 90.4%
CIE TYPE: INDIRECT

TESTED BY HERSCHEL SCHRECK
CHECKED BY MIKE GRATHER



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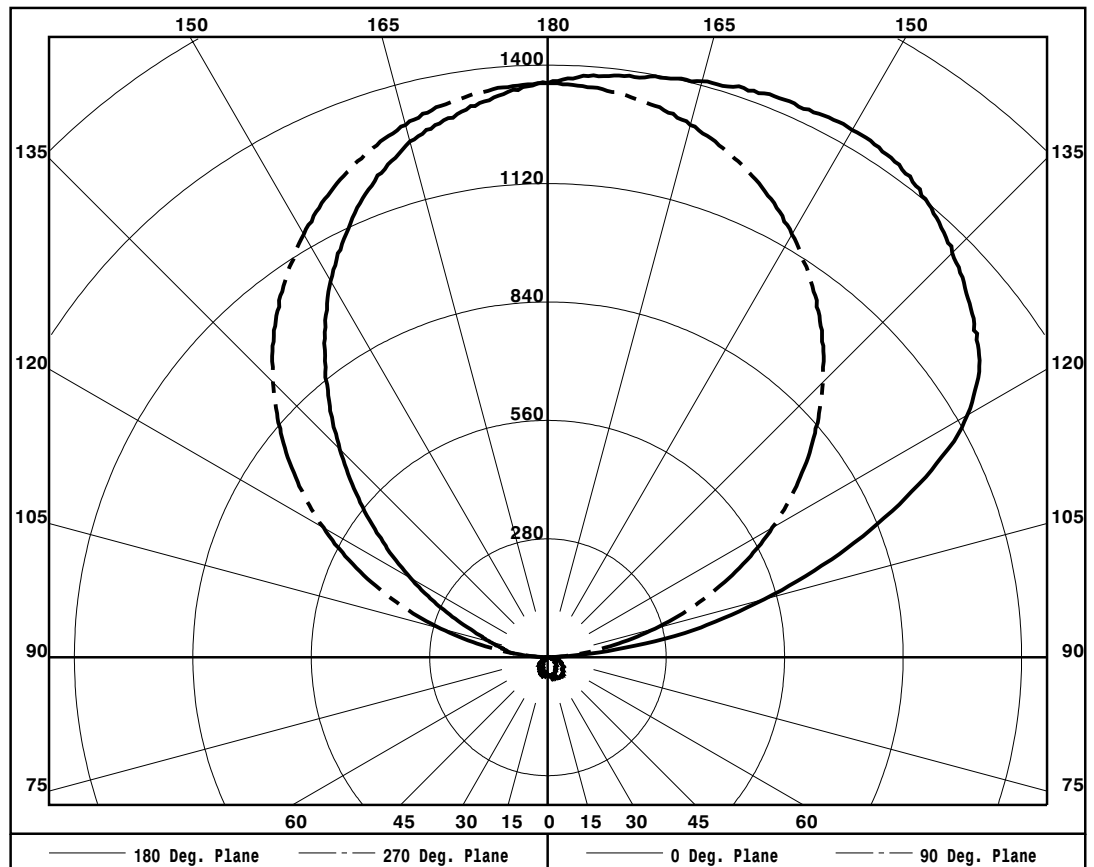
ZONAL LUMEN SUMMARY

0- 5	1.
5- 10	3.
10- 15	5.
15- 20	7.
20- 25	9.
25- 30	10.
30- 35	11.
35- 40	11.
40- 45	12.
45- 50	11.
50- 55	11.
55- 60	10.
60- 65	9.
65- 70	7.
70- 75	6.
75- 80	5.
80- 85	4.
85- 90	3.
90- 95	15.
95-100	78.
100-105	141.
105-110	204.
110-115	264.
115-120	314.
120-125	347.
125-130	368.
130-135	379.
135-140	379.
140-145	366.
145-150	343.
150-155	309.
155-160	266.
160-165	215.
165-170	158.
170-175	96.
175-180	32.

PLANE: 0-DEG 90-DEG
 LUMINOUS LENGTH: 2.000 46.500
 HEIGHT OF SIDE: 1.125 0.000

LUMINANCE IN CANDELA PER SQUARE METER

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
0	1199.	1199.	1199.
45	752.	797.	1040.
55	633.	638.	903.
65	494.	512.	903.
75	394.	371.	1053.
85	312.	260.	938.





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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	74	74	74	74	64	64	64	64	44	44	44	26	26	26	10	10	10	2
1	67	64	62	59	58	55	53	51	39	37	36	23	22	22	9	9	8	2
2	61	56	52	48	53	48	45	42	34	32	30	20	19	18	8	7	7	2
3	56	49	44	40	48	42	38	35	30	27	25	18	16	15	7	6	6	1
4	51	43	38	33	44	37	33	29	26	23	21	16	14	13	6	6	5	1
5	47	38	33	28	40	33	28	25	23	20	18	14	12	11	5	5	4	1
6	43	34	28	24	37	30	25	21	21	18	15	13	11	9	5	4	4	1
7	39	31	25	21	34	26	22	18	19	16	13	11	10	8	4	4	3	1
8	36	28	22	18	31	24	19	16	17	14	12	10	8	7	4	3	3	1
9	34	25	20	16	29	22	17	14	15	12	10	9	8	6	4	3	2	1
10	31	23	18	14	27	20	15	12	14	11	9	8	7	6	3	3	2	0

NOTE: THE ZONAL CAVITY CALCULATION TECHNIQUE IS ACCURATE WHEN LUMINAIRES WITH SYMMETRIC CANDELA DISTRIBUTIONS ARE EMPLOYED AND WHEN THE LUMINAIRES ARE LOCATED SYMMETRICALLY THROUGHOUT THE ROOM. THIS UNIT HAS SPECIAL CHARACTERISTICS AND THEREFORE THESE COEFFICIENTS SHOULD BE USED WITH CAUTION.

THIS TEST WAS CONDUCTED USING RELATIVE PHOTOMETRY TECHNIQUES ACCORDING TO STANDARD IESNA PROCEDURES. THE USER MUST THEREFORE USE CAUTION IN THE FOLLOWING SITUATIONS: 1) THIS TEST WAS PERFORMED USING A SPECIFIC BALLAST/LAMP COMBINATION. EXTRAPOLATION OF THESE DATA FOR OTHER BALLAST/LAMP COMBINATIONS MAY PRODUCE ERRONEOUS RESULTS. 2) ACCORDING TO IESNA PROCEDURES, THE BALLAST(S) AND LAMP(S) ARE PRESUMED TO PRODUCE 100% OF RATED OUTPUT. AN APPROPRIATE BALLAST FACTOR MUST BE APPLIED TO THE LUMEN OUTPUT RATINGS AND LUMINOUS INTENSITY VALUES GIVEN. 3) THIS TEST WAS CONDUCTED IN A CONTROLLED LABORATORY ENVIRONMENT WHERE THE AMBIENT TEMPERATURE WAS HELD AT 25°C ±1°C. FIELD PERFORMANCE MAY DIFFER PARTICULARLY IN REGARDS TO CHANGE IN LUMINOUS OUTPUT AS A RESULT OF DIFFERENCE IN AMBIENT TEMPERATURE AND METHOD OF MOUNTING THE LUMINAIRE.



LUMINAIRE TESTING LABORATORY, INC.



905 Harrison Street · Allentown, PA 18103 · (610) 770-1044 · Fax (610) 770-8912 · www.LuminaireTesting.com

INITIAL ILLUMINATION OF 50 FOOTCANDLES USING LTL TEST NUMBER 06294
 LUMINAIRE SUSPENSION LENGTH = 1.5
 WORKING PLANE HEIGHT = 2.50
 FLOOR REFLECTANCE = 20

ROOM HT	CEIL RF	8				9				10				12			
		80	70	80	70	80	70	80	70	80	70	80	70				
WALL RF		70	50	50	30	70	50	50	30	70	50	50	30	70	50	50	30
WIDTH	LENGTH																
10.	10.	2	3	3	3	2	3	3	4	3	3	3	4	3	4	4	5
10.	15.	3	3	4	4	3	4	4	5	3	4	4	5	4	5	5	6
15.	20.	5	5	6	7	5	6	7	7	5	6	7	8	6	7	8	9
15.	30.	7	8	9	9	7	8	9	10	8	9	10	11	8	10	11	13
20.	20.	6	7	8	8	6	7	8	9	7	8	9	10	7	9	10	11
20.	30.	9	9	11	12	9	10	12	12	9	10	12	13	10	12	13	15
20.	40.	11	12	14	15	12	13	15	16	12	13	15	17	13	15	17	19
20.	60.	17	18	20	21	17	18	21	23	18	19	22	24	19	21	24	27
30.	30.	13	13	15	16	13	14	16	17	13	15	17	18	14	16	18	20
30.	40.	16	17	20	21	17	18	21	22	17	19	22	23	18	20	23	25
30.	50.	20	21	24	26	21	22	25	27	21	23	26	28	22	24	28	30
30.	60.	24	25	29	30	24	26	30	31	25	27	31	33	26	29	33	36
60.	60.	46	47	55	56	47	48	56	58	47	50	58	60	49	52	60	63
60.	80.	60	62	72	74	61	63	74	76	62	65	75	78	64	67	78	82
60.	100.	75	77	89	91	76	78	91	93	77	80	93	96	79	83	96	101
100.	100.	123	125	146	148	124	127	148	151	126	129	150	153	128	133	154	159

QUANTITY OF LUMINAIRES