

CERTIFIED TEST REPORT No. LSI

15379

P-1700

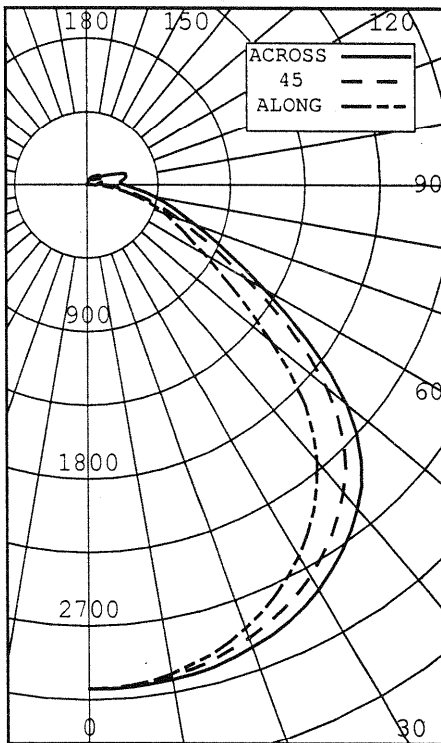
PRUDENTIAL LIGHTING 4' FLUORESCENT LUMINAIRE, CAT# P1704-48

WITH WHITE INTERIOR AND PRISMATIC LENS

FOUR PHILIPS 32 WATT T8 LAMPS, CAT# F32T8/TL835. LUMEN RATING = 2950 LMS.
TWO SYLVANIA QT2X32/120 IS-SC BALLASTS OPERATING AT 120 VAC AND 115 WATTS

CANDLEPOWER SUMMARY

OUTPUT
LUMENS



ANGLE	ALONG	22.5	45	67.5	ACROSS	
0	3083	3083	3083	3083	3083	
5	3074	3070	3072	3075	3084	297
15	2973	2982	3006	3033	3051	849
25	2760	2790	2860	2917	2943	1314
35	2428	2492	2616	2706	2731	1620
45	1904	2039	2236	2352	2381	1674
55	1121	1308	1529	1666	1659	1318
65	667	666	828	917	959	812
75	386	327	445	496	573	465
85	89	132	176	248	312	212
90	0	29	94	184	235	
95	0	11	71	169	209	106
105	0	20	129	230	253	128
115	0	42	104	129	137	86
125	0	28	64	89	97	51
135	0	22	54	71	79	36
145	0	15	39	51	63	22
155	0	7	21	32	38	9
165	0	0	7	13	15	2
175	0	0	0	0	0	0
180	0	0	0	0	0	

ZONE	LUMENS	% LAMP	% LUMINAIRE
0-30	2459	20.84	27.32
0-40	4080	34.58	45.33
0-60	7072	59.93	78.57
0-90	8561	72.55	95.11
40-90	4481	37.98	49.78
60-90	1488	12.62	16.54
90-180	440	3.73	4.89
0-180	9001	76.28	100.00

** EFFICIENCY: 76.3% **

LUMINANCE SUMMARY - CD./SQ.M.

PAINT REFLECTANCE: .87 , S/MH: 1.4
SC(ALONG): 1.3, SC(ACROSS): 1.4

ANGLE	ALONG	45	ACROSS
45	5141	5595	5775
55	3731	4567	4746
65	3015	3185	3472
75	2850	2505	2948
85	1952	1982	2922

CERTIFIED BY:

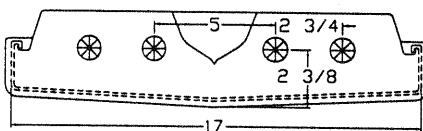
John O'Scannell

DATE:
MAR 26, 2001

PREPARED FOR:

PRUDENTIAL LIGHTING CORP.
LOS ANGELES, CA

TESTED IN ACCORDANCE WITH IES PROCEDURES.



Lighting Sciences
7830 E. Evans Rd.
Scottsdale, AZ, USA 85260

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CANDLEPOWER DATA

ANGLE	PLANE						OUTPUT LUMENS
	ALONG	22.5	45	67.5	ACROSS	AVERAGE	
0	3083	3083	3083	3083	3083	3083	
5	3074	3070	3072	3075	3084	3074	297
10	3037	3036	3048	3060	3071	3050	
15	2973	2982	3006	3033	3051	3008	849
20	2879	2896	2944	2989	3004	2943	
25	2760	2790	2860	2917	2943	2855	1314
30	2612	2658	2753	2825	2852	2742	
35	2428	2492	2616	2706	2731	2599	1620
40	2200	2286	2450	2553	2583	2420	
45	1904	2039	2236	2352	2381	2193	1674
50	1496	1688	1922	2036	2089	1860	
55	1121	1308	1529	1666	1659	1473	1318
60	846	955	1136	1254	1270	1101	
65	667	666	828	917	959	806	812
70	527	467	618	670	735	596	
75	386	327	445	496	573	437	465
80	237	223	299	354	439	304	
85	89	132	176	248	312	189	212
90	0	29	94	184	235	106	
95	0	11	71	169	209	89	106
100	0	18	96	215	245	113	
105	0	20	129	230	253	126	128
110	0	32	137	186	196	113	
115	0	42	104	129	137	86	86
120	0	29	74	96	105	63	
125	0	28	64	89	97	57	51
130	0	27	57	83	92	53	
135	0	22	54	71	79	47	36
140	0	20	49	61	65	41	
145	0	15	39	51	63	34	22
150	0	9	31	42	51	27	
155	0	7	21	32	38	20	9
160	0	2	14	21	25	12	
165	0	0	7	13	15	7	2
170	0	2	3	5	4	3	
175	0	0	0	0	0	0	0
180	0	0	0	0	0	0	

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AVERAGE LUMINANCE DATA

ANGLE	ALONG	CD./SQ.M. (FOOTLAMBERTS)				ACROSS
		22.5	45	67.5		
0	5886(1718)	5886(1718)	5886(1718)	5886(1718)		5886(1718)
30	5759(1681)	5728(1671)	5807(1694)	5875(1714)		5887(1718)
40	5483(1600)	5504(1606)	5714(1667)	5846(1706)		5859(1710)
45	5141(1500)	5276(1540)	5595(1633)	5746(1677)		5775(1685)
50	4443(1297)	4776(1394)	5194(1516)	5370(1567)		5443(1588)
55	3731(1089)	4097(1195)	4567(1333)	4815(1405)		4746(1385)
60	3229(942)	3394(990)	3797(1108)	4040(1179)		4029(1176)
65	3015(880)	2746(801)	3185(929)	3372(984)		3472(1013)
70	2943(859)	2327(679)	2814(821)	2886(842)		3100(905)
75	2850(831)	2071(604)	2505(731)	2609(761)		2948(860)
80	2608(761)	1962(572)	2243(654)	2413(704)		2894(844)
85	1952(569)	1913(558)	1982(578)	2429(709)		2922(852)

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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	0
RCR																		
0	.90	.90	.90	.90	.87	.87	.87	.87	.83	.83	.83	.78	.78	.78	.74	.74	.74	.73
1	.83	.80	.77	.74	.80	.78	.75	.72	.74	.71	.69	.70	.68	.67	.67	.65	.64	.62
2	.76	.70	.66	.62	.74	.69	.64	.61	.65	.62	.59	.62	.60	.57	.60	.57	.55	.53
3	.70	.63	.57	.53	.68	.61	.56	.52	.59	.54	.50	.56	.52	.49	.54	.51	.48	.46
4	.64	.56	.50	.45	.63	.55	.49	.45	.52	.47	.44	.50	.46	.43	.48	.45	.42	.40
5	.59	.50	.43	.38	.57	.49	.43	.38	.47	.41	.37	.45	.40	.37	.43	.39	.36	.34
6	.54	.45	.38	.34	.53	.44	.38	.33	.42	.37	.33	.40	.36	.32	.39	.35	.31	.30
7	.50	.40	.34	.29	.49	.39	.33	.29	.38	.32	.29	.36	.32	.28	.35	.31	.27	.26
8	.46	.36	.30	.25	.45	.35	.29	.25	.34	.29	.25	.33	.28	.24	.32	.27	.24	.22
9	.42	.32	.26	.22	.41	.32	.26	.22	.30	.25	.21	.29	.24	.21	.28	.24	.21	.19
10	.39	.29	.23	.19	.38	.29	.23	.19	.28	.22	.19	.27	.22	.18	.26	.21	.18	.17

LUMINAIRE INPUT WATTS = 115.0

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LABORATORY RESULTS MAY NOT BE REPRESENTATIVE OF FIELD PERFORMANCE.

BALLAST AND FIELD FACTORS HAVE NOT BEEN APPLIED.