



LIGHTING SCIENCES CANADA LTD.

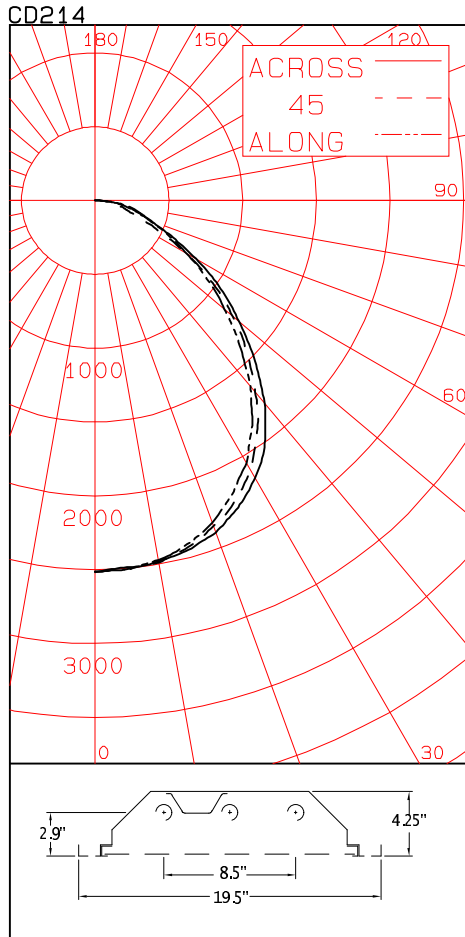
440 Phillip St., Unit 19, Waterloo, Ontario, Canada N2L 5R9
 Tel: (519) 746-3140 Fax: (519) 746-3156 lsc@lightingsciences.ca

CERTIFIED TEST REPORT NO. LSC D214
 COMPUTED BY LSC PROGRAM **TEST-LITE**

PIONEER LIGHTING 20"x60" RECESSED LUMINAIRE CAT. NO. TBAH 25-348-EL-120
 WITH WHITE PAINTED INTERIOR AND FLAT PRISMATIC LENS
 THREE F32T8/TL841 32W T8 FLUORESCENT LAMPS. LUMEN RATING = 2950 LMS.
 ONE GE PROLINE 120V 2 OR 3-LAMP ELECTRONIC BALLAST NO. GE-332-120-N-84T

CANDLEPOWER SUMMARY

OUTPUT
LUMENS



ANGLE	ALONG	22.5	45	67.5	ACROSS	
0	2515	2515	2515	2515	2515	
5	2508	2521	2506	2497	2493	242
10	2470	2479	2489	2476	2480	
15	2411	2421	2431	2447	2449	684
20	2321	2326	2347	2373	2391	
25	2198	2210	2246	2278	2293	1031
30	2052	2057	2106	2151	2169	
35	1858	1875	1915	1984	2007	1196
40	1636	1654	1690	1759	1788	
45	1386	1407	1455	1514	1534	1122
50	1145	1168	1219	1254	1274	
55	923	930	971	1000	1039	865
60	717	691	712	726	788	
65	535	493	461	499	566	507
70	391	354	289	343	404	
75	310	264	206	242	293	270
80	225	192	148	162	195	
85	119	108	70	81	100	100
90	0	0	0	0	0	

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LAMP	%LUMINAIRE
0-30	1956	22.11	32.52
0-40	3152	35.62	52.40
0-60	5139	58.07	85.43
0-90	6015	67.98	100.00
40-90	2863	32.35	47.60
60-90	876	9.91	14.57
90-180	0	.00	.00
0-180	6015	67.98	100.00

** EFFICIENCY = 68.0% **

LUMINANCE SUMMARY-CD. / SQ. M.

PAINT REFLECTANCE = .85 S/MH = 1.3
 SC (ALONG) = 1.2, SC (ACROSS) = 1.3

ANGLE	ALONG	45	ACROSS
45	4208	4431	4674
55	3454	3648	3904
65	2717	2347	2885
75	2569	1710	2435
85	2937	1727	2476

CERTIFIED BY:

Charles Sisson

DATE:
APR 30, 2008

PREPARED FOR:

PIONEER LIGHTING
 TORONTO, ONTARIO

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

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CANDLEPOWER DATA
 IN 2.5 DEGREE STEPS

ANGLE	PLANE						OUTPUT LUMENS
	ALONG	22.5	45	67.5	ACROSS	AVERAGE	
.0	2515	2515	2515	2515	2515	2515	
2.5	2509	2513	2508	2502	2500	2507	
5.0	2508	2521	2506	2497	2493	2506	242
7.5	2487	2496	2494	2487	2495	2492	
10.0	2470	2479	2489	2476	2480	2480	
12.5	2446	2451	2457	2462	2465	2456	
15.0	2411	2421	2431	2447	2449	2432	684
17.5	2369	2375	2393	2411	2417	2393	
20.0	2321	2326	2347	2373	2391	2350	
22.5	2257	2275	2304	2337	2342	2304	
25.0	2198	2210	2246	2278	2293	2245	1031
27.5	2117	2135	2178	2219	2234	2177	
30.0	2052	2057	2106	2151	2169	2106	
32.5	1947	1966	2009	2060	2098	2015	
35.0	1858	1875	1915	1984	2007	1927	1196
37.5	1741	1757	1816	1867	1900	1815	
40.0	1636	1654	1690	1759	1788	1704	
42.5	1503	1534	1571	1628	1654	1578	
45.0	1386	1407	1455	1514	1534	1459	1122
47.5	1269	1295	1347	1380	1401	1339	
50.0	1145	1168	1219	1254	1274	1213	
52.5	1045	1048	1104	1129	1159	1096	
55.0	923	930	971	1000	1039	971	865
57.5	827	815	844	861	922	849	
60.0	717	691	712	726	788	720	
62.5	621	592	576	613	669	607	
65.0	535	493	461	499	566	501	507
67.5	460	421	363	412	473	416	
70.0	391	354	289	343	404	346	
72.5	348	302	232	291	337	292	
75.0	310	264	206	242	293	253	270
77.5	272	228	175	210	245	218	
80.0	225	192	148	162	195	178	
82.5	172	144	121	135	156	141	
85.0	119	108	70	81	100	92	100
87.5	55	56	29	43	53	45	
90.0	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	5396(1575)	5396(1575)	5396(1575)	5396(1575)	5396(1575)
30	5084(1484)	5113(1492)	5232(1527)	5342(1559)	5374(1568)
40	4583(1337)	4647(1356)	4739(1383)	4942(1442)	5009(1462)
45	4208(1228)	4276(1248)	4431(1293)	4607(1344)	4674(1364)
50	3824(1116)	3913(1142)	4071(1188)	4200(1225)	4252(1241)
55	3454(1008)	3488(1018)	3648(1064)	3753(1095)	3904(1139)
60	3079(898)	2974(868)	3057(892)	3125(912)	3384(987)
65	2717(793)	2508(732)	2347(685)	2540(741)	2885(842)
70	2453(716)	2226(649)	1816(530)	2156(629)	2534(739)
75	2569(750)	2197(641)	1710(499)	2013(587)	2435(710)
80	2777(810)	2382(695)	1831(534)	2010(586)	2410(703)
85	2937(857)	2657(775)	1727(504)	2007(585)	2476(722)

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES

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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	50	30	10	0	
RCR																						
0	.81	.81	.81	.81	.79	.79	.79	.79	.76	.76	.76	.72	.72	.72	.69	.69	.69	.68				
1	.75	.72	.70	.68	.73	.71	.69	.66	.68	.66	.64	.65	.64	.62	.63	.62	.61	.59				
2	.69	.65	.61	.57	.68	.63	.60	.56	.61	.58	.55	.59	.56	.54	.57	.55	.53	.51				
3	.64	.58	.53	.49	.62	.57	.52	.49	.55	.51	.48	.53	.50	.47	.51	.49	.46	.45				
4	.59	.52	.47	.43	.58	.51	.46	.42	.49	.45	.42	.48	.44	.41	.46	.43	.41	.39				
5	.54	.46	.41	.37	.53	.46	.40	.36	.44	.40	.36	.43	.39	.36	.42	.38	.35	.34				
6	.50	.42	.36	.32	.49	.41	.36	.32	.40	.35	.32	.39	.35	.32	.38	.34	.31	.30				
7	.46	.38	.32	.29	.45	.37	.32	.28	.36	.31	.28	.35	.31	.28	.34	.31	.28	.26				
8	.43	.34	.29	.25	.42	.33	.28	.25	.33	.28	.25	.32	.27	.24	.31	.27	.24	.23				
9	.40	.31	.25	.22	.39	.30	.25	.22	.29	.25	.21	.29	.24	.21	.28	.24	.21	.20				
10	.37	.28	.23	.19	.36	.28	.23	.19	.27	.22	.19	.26	.22	.19	.26	.22	.19	.18				

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES
 LUMINAIRE INPUT WATTS = 81.2
 LABORATORY RESULT MAY NOT BE REPRESENTATIVE OF FIELD PERFORMANCE.
 BALLAST FACTORS HAVE NOT BEEN APPLIED.