LIGHTING SCIENCES CANADA LTD.

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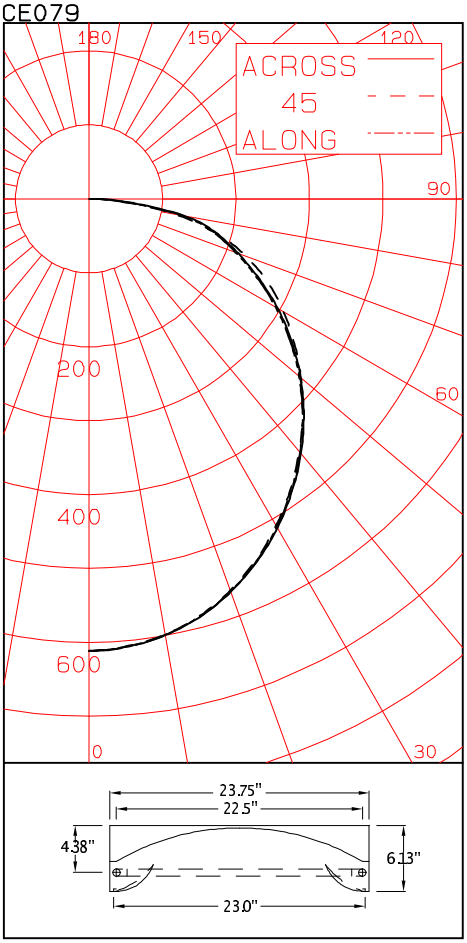
CERTIFIED TEST REPORT NO. LSC E079
COMPUTED BY LSC PROGRAM **TEST-LITE**

VISIONEERING 2x2 FLUORESCENT LUMINAIRE CAT. NO. TDQW2x24L-T514PUNV-B01
WITH WHITE DISH REFLECTOR AND PERFORATED LAMP SHIELDS WITH TRANSLUCENT INLAYS
FOUR 14W T5 FLUORESCENT LAMPS. LUMEN RATING = 1200 LMS.
TWO ADVANCE CENTIUM 120-277V 2-LAMP ELECTRONIC BALLAST NO. ICN-2S28-N

CE079



CANDLEPOWER SUMMARY

ANGLE	ALONG	22.5	45	67.5	ACROSS	OUTPUT LUMENS
0	611	611	611	611	611	
5	608	608	607	608	608	59
10	599	598	598	599	599	
15	584	584	584	584	585	164
20	565	564	563	564	565	
25	540	539	539	540	541	248
30	512	511	510	512	513	
35	481	480	479	481	482	300
40	447	446	446	448	449	
45	411	411	411	413	414	318
50	373	375	377	377	376	
55	334	338	341	340	337	303
60	294	301	306	303	297	
65	252	263	269	265	256	259
70	212	222	228	224	217	
75	176	180	179	182	180	187
80	127	127	117	128	131	
85	51	50	47	51	54	59
90	0	0	0	0	0	

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LAMP	%LUMINAIRE
0-30	471	9.82	24.84
0-40	771	16.07	40.66
0-60	1391	29.00	73.35
0-90	1897	39.54	100.00
40-90	1126	23.46	59.34
60-90	505	10.54	26.65
90-180	0	.00	.00
0-180	1897	39.54	100.00

** EFFICIENCY = 39.5% **

LUMINANCE SUMMARY-CD. / SQ. M.

S/MH = 1.3
SC(ALONG) = 1.2, SC(ACROSS) = 1.3

ANGLE	ALONG	45	ACROSS
45	1703	1710	1720
55	1707	1750	1728
65	1748	1872	1779
75	1988	2027	2040
85	1700	1594	1808

CERTIFIED BY:
Charles Lasson
DATE:
NOV 13, 2009
PREPARED FOR:
VISIONEERING CORP.
TORONTO, ONTARIO

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

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160 FROBISHER DRIVE, UNIT 5
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CANDLEPOWER DATA
IN 2.5 DEGREE STEPS

ANGLE	PLANE						OUTPUT
	ALONG	22.5	45	67.5	ACROSS	AVERAGE	LUMENS
.0	611	611	611	611	611	611	
2.5	611	610	610	610	611	610	
5.0	608	608	607	608	608	608	59
7.5	604	604	604	604	604	604	
10.0	599	598	598	599	599	599	
12.5	592	592	592	592	593	592	
15.0	584	584	584	584	585	584	164
17.5	575	575	574	575	576	575	
20.0	565	564	563	564	565	564	
22.5	553	552	551	553	554	552	
25.0	540	539	539	540	541	540	248
27.5	527	526	525	527	528	526	
30.0	512	511	510	512	513	511	
32.5	497	496	495	497	498	496	
35.0	481	480	479	481	482	480	300
37.5	464	463	462	464	466	464	
40.0	447	446	446	448	449	447	
42.5	429	429	428	430	431	429	
45.0	411	411	411	413	414	412	318
47.5	392	393	394	395	395	394	
50.0	373	375	377	377	376	376	
52.5	354	357	359	359	357	357	
55.0	334	338	341	340	337	339	303
57.5	314	320	324	322	317	320	
60.0	294	301	306	303	297	301	
62.5	273	282	288	284	276	282	
65.0	252	263	269	265	256	263	259
67.5	232	243	249	245	236	243	
70.0	212	222	228	224	217	222	
72.5	194	201	204	204	198	201	
75.0	176	180	179	182	180	180	187
77.5	155	156	150	159	159	155	
80.0	127	127	117	128	131	125	
82.5	83	86	81	85	89	84	
85.0	51	50	47	51	54	50	59
87.5	21	20	19	22	24	21	
90.0	0	0	0	0	0	0	

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AVERAGE LUMINANCE DATA

CD. / SQ. M. (FOOTLAMBERTS)

ANGLE	ALONG	22.5	45	67.5	ACROSS
0	1791(522)	1791(522)	1791(522)	1791(522)	1791(522)
30	1732(505)	1733(506)	1730(505)	1736(506)	1737(507)
40	1709(498)	1709(499)	1705(497)	1716(500)	1717(501)
45	1703(497)	1705(497)	1710(499)	1715(500)	1720(502)
50	1701(496)	1715(500)	1716(501)	1722(502)	1713(500)
55	1707(498)	1732(505)	1750(510)	1744(509)	1728(504)
60	1720(502)	1771(516)	1793(523)	1781(519)	1738(507)
65	1748(510)	1822(531)	1872(546)	1841(537)	1779(519)
70	1819(531)	1910(557)	1954(570)	1926(562)	1854(541)
75	1988(580)	2040(595)	2027(591)	2071(604)	2040(595)
80	2141(625)	2152(628)	1975(576)	2161(630)	2209(644)
85	1700(496)	1683(491)	1594(465)	1711(499)	1808(527)

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES

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COEFFICIENTS OF UTILIZATION

ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE = .20

CC	80				70				50			30			10			0
WALL	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	.47	.47	.47	.47	.46	.46	.46	.46	.44	.44	.44	.42	.42	.42	.40	.40	.40	.40
1	.43	.41	.39	.38	.42	.40	.38	.37	.38	.37	.36	.37	.36	.35	.35	.34	.34	.33
2	.39	.36	.33	.30	.38	.35	.32	.30	.33	.31	.29	.32	.30	.29	.31	.29	.28	.27
3	.35	.31	.28	.25	.34	.31	.28	.25	.29	.27	.25	.28	.26	.24	.27	.25	.24	.23
4	.32	.28	.24	.21	.32	.27	.24	.21	.26	.23	.21	.25	.23	.21	.24	.22	.20	.20
5	.30	.24	.21	.18	.29	.24	.20	.18	.23	.20	.18	.22	.20	.17	.21	.19	.17	.16
6	.27	.22	.18	.16	.26	.21	.18	.15	.21	.18	.15	.20	.17	.15	.19	.17	.15	.14
7	.25	.20	.16	.14	.24	.19	.16	.13	.19	.15	.13	.18	.15	.13	.17	.15	.13	.12
8	.23	.17	.14	.12	.22	.17	.14	.12	.17	.14	.12	.16	.13	.11	.16	.13	.11	.11
9	.21	.16	.12	.10	.21	.16	.12	.10	.15	.12	.10	.15	.12	.10	.14	.12	.10	.09
10	.20	.14	.11	.09	.19	.14	.11	.09	.14	.11	.09	.13	.11	.09	.13	.10	.09	.08

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES
LUMINAIRE INPUT WATTS = 65.6
LABORATORY RESULT MAY NOT BE REPRESENTATIVE OF FIELD PERFORMANCE.
BALLAST FACTORS HAVE NOT BEEN APPLIED.