



LIGHTING SCIENCES CANADA LTD

440 Phillip St., Unit 19, Waterloo, Ontario, Canada, N2L 5R9

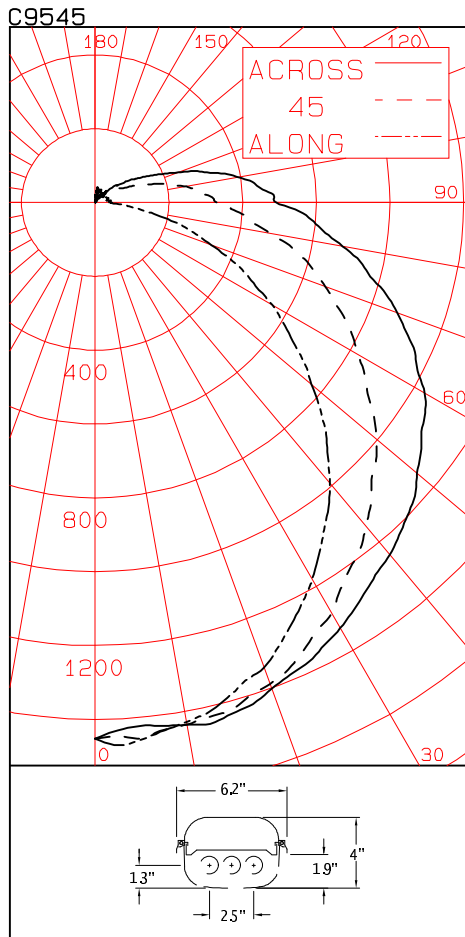
Tel: (519) 746-3140 Fax: (519) 746-3156 Email: lsc@ionline.net

CERTIFIED TEST REPORT NO. LSC9545
 COMPUTED BY LSC PROGRAM **TEST-LITE**

GVA LIGHTING 4' WATERPROOF FIXTURE CAT. NO. FA-332-PC-120-IS-RH
 WITH WHITE PAINTED REFLECTOR AND PC DIFFUSER
 THREE 32W T8 FLUORESCENT LAMPS. LUMEN RATING = 2950 LMS.
 ONE ADVANCE 120V 3-LAMP ELECTRONIC BALLAST NO. REL-3P32-SC

CANDLEPOWER SUMMARY

OUTPUT
LUMENS



ANGLE	ALONG	22.5	45	67.5	ACROSS	
0	1452	1452	1452	1452	1452	
5	1460	1451	1457	1440	1423	140
15	1389	1387	1424	1435	1434	398
25	1260	1278	1339	1372	1373	611
35	1083	1120	1208	1280	1283	750
45	886	931	1061	1172	1199	812
55	655	741	904	1035	1082	796
65	448	546	749	904	957	715
75	245	374	587	730	774	577
85	79	201	409	538	595	405
90	45	151	329	457	490	
95	41	135	290	418	450	294
105	35	72	198	288	315	194
115	35	42	103	158	177	104
125	25	32	58	84	96	54
135	20	30	36	46	37	26
145	30	27	7	14	4	13
155	38	30	16	12	4	8
165	25	29	26	2	8	6
175	27	38	26	17	8	2
180	21	21	21	21	21	

ZONE	LUMENS	% LAMP	%LUMINAIRE
0-30	1148	12.98	19.46
0-40	1898	21.45	32.15
0-60	3506	39.62	59.38
0-90	5204	58.80	88.14
40-90	3305	37.35	55.99
60-90	1698	19.19	28.76
90-180	700	7.91	11.86
0-180	5904	66.72	100.00

** EFFICIENCY = 66.7% **

LUMINANCE SUMMARY-CD. / SQ. M.

PAINT REFLECTANCE = .84 S/MH = 1.4
 SC (ALONG) = 1.2, SC (ACROSS) = 1.4

ANGLE	ALONG	45	ACROSS
45	7700	7389	7838
55	6896	7058	7788
65	6232	6889	7932
75	5258	6817	7839
85	3987	6736	8065

CERTIFIED BY:

Charles Sisson

DATE:
NOV 26, 2002

PREPARED FOR:

GVA LIGHTING
 MISSISSAUGA, ONTARIO

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

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CANDLEPOWER DATA

ANGLE	PLANE						OUTPUT LUMENS
	ALONG	22.5	45	67.5	ACROSS	AVERAGE	
0	1452	1452	1452	1452	1452	1452	
5	1460	1451	1457	1440	1423	1447	140
10	1429	1421	1436	1448	1437	1435	
15	1389	1387	1424	1435	1434	1414	398
20	1341	1335	1388	1416	1402	1378	
25	1260	1278	1339	1372	1373	1326	611
30	1179	1199	1284	1325	1332	1266	
35	1083	1120	1208	1280	1283	1198	750
40	991	1037	1143	1223	1245	1130	
45	886	931	1061	1172	1199	1052	812
50	766	837	996	1113	1141	975	
55	655	741	904	1035	1082	887	796
60	556	642	823	969	1034	807	
65	448	546	749	904	957	725	715
70	336	464	665	820	872	638	
75	245	374	587	730	774	550	577
80	145	282	485	632	682	453	
85	79	201	409	538	595	371	405
90	45	151	329	457	490	301	
95	41	135	290	418	450	272	294
100	32	110	251	351	396	231	
105	35	72	198	288	315	183	194
110	37	49	142	212	239	135	
115	35	42	103	158	177	102	104
120	22	31	78	117	130	75	
125	25	32	58	84	96	59	54
130	27	31	42	59	74	45	
135	20	30	36	46	37	35	26
140	32	23	18	32	17	24	
145	30	27	7	14	4	16	13
150	37	32	24	5	5	20	
155	38	30	16	12	4	20	8
160	36	28	19	9	0	18	
165	25	29	26	2	0	18	6
170	40	30	21	0	0	20	
175	27	38	26	0	0	18	2
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	9279 (2708)	9279 (2708)	9279 (2708)	9279 (2708)	9279 (2708)
30	8498 (2480)	8013 (2338)	8086 (2360)	8060 (2352)	8028 (2343)
40	7995 (2333)	7505 (2190)	7613 (2222)	7788 (2273)	7837 (2287)
45	7700 (2247)	7102 (2073)	7389 (2156)	7730 (2256)	7838 (2287)
50	7263 (2119)	6834 (1994)	7276 (2123)	7679 (2241)	7757 (2264)
55	6896 (2012)	6532 (1906)	7058 (2059)	7538 (2200)	7788 (2273)
60	6636 (1936)	6225 (1817)	6910 (2016)	7539 (2200)	7904 (2306)
65	6232 (1819)	5912 (1725)	6889 (2010)	7610 (2221)	7932 (2315)
70	5657 (1651)	5753 (1679)	6804 (1986)	7577 (2211)	7884 (2301)
75	5258 (1534)	5476 (1598)	6817 (1989)	7554 (2205)	7839 (2288)
80	4352 (1270)	5068 (1479)	6585 (1922)	7468 (2179)	7850 (2291)
85	3987 (1163)	4742 (1384)	6736 (1966)	7512 (2192)	8065 (2354)

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	.78	.78	.78	.78	.75	.75	.75	.75	.70	.70	.70	.65	.65	.65	.61	.61	.61	.59			
1	.69	.66	.62	.59	.67	.64	.60	.58	.59	.57	.54	.55	.53	.51	.51	.50	.48	.47			
2	.63	.57	.52	.47	.60	.55	.50	.46	.51	.47	.44	.48	.45	.42	.44	.42	.40	.38			
3	.57	.49	.44	.39	.55	.48	.43	.38	.45	.40	.37	.42	.38	.35	.39	.36	.33	.32			
4	.52	.44	.38	.33	.50	.42	.37	.32	.40	.35	.31	.37	.33	.30	.35	.31	.28	.27			
5	.47	.38	.32	.27	.45	.37	.31	.27	.35	.30	.26	.33	.28	.25	.31	.27	.24	.22			
6	.44	.34	.28	.24	.42	.33	.27	.23	.31	.26	.22	.29	.25	.21	.27	.24	.21	.19			
7	.40	.31	.25	.21	.38	.30	.24	.20	.28	.23	.19	.26	.22	.19	.25	.21	.18	.16			
8	.37	.27	.22	.18	.35	.27	.21	.17	.25	.20	.17	.24	.19	.16	.22	.18	.16	.14			
9	.34	.25	.19	.15	.33	.24	.19	.15	.23	.18	.14	.21	.17	.14	.20	.16	.13	.12			
10	.32	.23	.17	.13	.30	.22	.17	.13	.21	.16	.13	.19	.15	.12	.18	.15	.12	.11			

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES
 LUMINAIRE INPUT WATTS = 75.6
 LABORATORY RESULT MAY NOT BE REPRESENTATIVE OF FIELD PERFORMANCE.
 BALLAST FACTORS HAVE NOT BEEN APPLIED.