



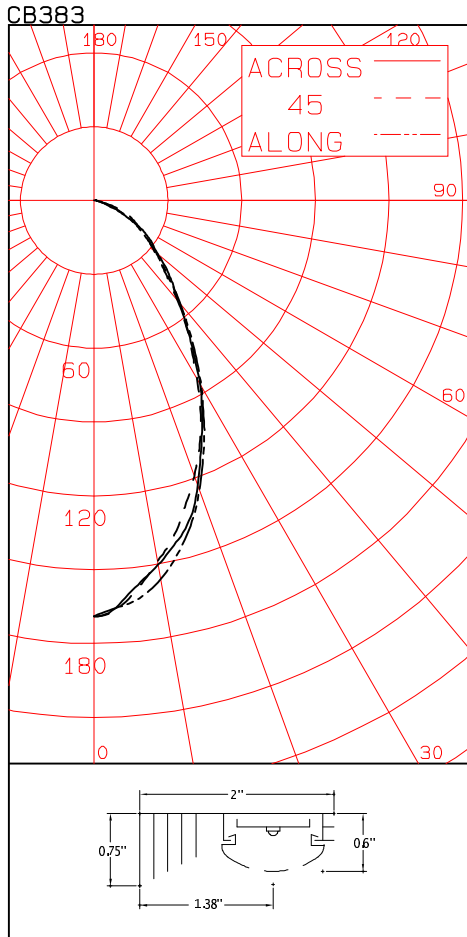
LIGHTING SCIENCES CANADA LTD.

440 Phillip St., Unit 19, Waterloo, Ontario, Canada N2L 5R9
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CERTIFIED TEST REPORT NO. LSC B383
 COMPUTED BY LSC PROGRAM **TEST-LITE**

GVA LIGHTING LED LUMINAIRE CAT. NO. STR8-1'-CM-CLR-RG300-CWTB-L70-12
 WITH DIFFUSE INTERIOR AND PLASTIC LENS
 TWELVE NICHIA RIGEL 0.5W NFSW036LT RANK B4S LEDS. LUMEN OUTPUT = 220 LMS.
 DRIVEN AT 150mA AT INPUT VOLTAGE OF 24VDC

CANDLEPOWER SUMMARY OUTPUT LUMENS



ANGLE	ALONG	22.5	45	67.5	ACROSS	OUTPUT LUMENS
0	169	169	169	169	169	
5	164	164	162	162	161	15
15	143	135	135	138	140	38
25	106	99	103	103	104	47
35	70	67	67	68	68	42
45	42	40	41	42	43	32
55	25	26	26	27	28	24
65	14	15	17	14	13	15
75	5	8	5	4	4	6
85	0	1	1	1	1	1
90	0	0	0	1	1	
95	0	0	0	0	0	0
105	0	0	0	0	0	0
115	0	0	0	0	0	0
125	0	0	0	0	0	0
135	0	0	0	0	0	0
145	0	0	0	0	0	0
155	0	0	0	0	0	0
165	0	0	0	0	0	0
175	0	0	0	0	0	0
180	0	0	0	0	0	

ZONE	LUMENS	% LAMP	%LUMINAIRE
0-30	100	45.63	45.63
0-40	142	64.77	64.77
0-60	198	90.06	90.06
0-90	219	99.94	99.94
40-90	77	35.18	35.18
60-90	21	9.88	9.88
90-180	0	.06	.06
0-180	220	100.00	100.00

LUMINANCE SUMMARY-CD. / SQ. M.

S/MH = .9
 SC = .9

ANGLE	ALONG	45	ACROSS
45	6973	5603	5596
55	5202	4088	3992
65	3786	3189	2141
75	2133	1262	772
85	62	375	308

CERTIFIED BY:

Charles Sison

DATE:
 OCT 5, 2006

PREPARED FOR:

GVA LIGHTING INC.
 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	169	169	169	169	169	169	
5	164	164	162	162	161	163	15
10	156	152	149	151	150	151	
15	143	135	135	138	140	137	38
20	125	117	119	123	123	121	
25	106	99	103	103	104	103	47
30	87	82	84	85	86	84	
35	70	67	67	68	68	68	42
40	54	52	52	53	53	53	
45	42	40	41	42	43	41	32
50	33	32	32	34	34	33	
55	25	26	26	27	28	26	24
60	20	20	21	22	21	20	
65	14	15	17	14	13	15	15
70	9	11	11	8	6	9	
75	5	8	5	4	4	5	6
80	2	4	2	2	2	3	
85	0	1	1	1	1	1	1
90	0	0	0	1	1	0	
95	0	0	0	0	0	0	0
100	0	0	0	0	0	0	
105	0	0	0	0	0	0	0
110	0	0	0	0	0	0	
115	0	0	0	0	0	0	0
120	0	0	0	0	0	0	
125	0	0	0	0	0	0	0
130	0	0	0	0	0	0	
135	0	0	0	0	0	0	0
140	0	0	0	0	0	0	
145	0	0	0	0	0	0	0
150	0	0	0	0	0	0	
155	0	0	0	0	0	0	0
160	0	0	0	0	0	0	
165	0	0	0	0	0	0	0
170	0	0	0	0	0	0	
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	19949(5822)	19949(5822)	19949(5822)	19949(5822)	19949(5822)	19949(5822)
30	11909(3476)	10509(3067)	10203(2977)	10031(2927)	10039(2930)	10039(2930)
40	8333(2432)	7372(2151)	6861(2002)	6586(1922)	6551(1912)	6551(1912)
45	6973(2035)	6068(1771)	5603(1635)	5440(1587)	5596(1633)	5596(1633)
50	6025(1758)	5203(1518)	4677(1365)	4658(1359)	4574(1335)	4574(1335)
55	5202(1518)	4519(1318)	4088(1193)	4004(1168)	3992(1165)	3992(1165)
60	4642(1354)	3856(1125)	3556(1038)	3437(1003)	3193(932)	3193(932)
65	3786(1105)	3326(970)	3189(930)	2419(706)	2141(625)	2141(625)
70	3080(899)	2950(861)	2486(725)	1495(436)	1199(350)	1199(350)
75	2133(622)	2651(773)	1262(368)	926(270)	772(225)	772(225)
80	1025(299)	1746(509)	705(205)	498(145)	494(144)	494(144)
85	62(18)	475(138)	375(109)	301(87)	308(90)	308(90)

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	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.16	1.11	1.11	1.11	1.11	1.06	1.06	1.06	1.06	1.02	1.02	1.02	1.02	1.00
1	1.12	1.09	1.05	1.03	1.09	1.07	1.04	1.01	1.02	1.00	.98	.98	.98	.97	.95	.95	.95	.93	.92	.92	.90
2	1.05	.99	.94	.90	1.03	.97	.93	.89	.94	.90	.87	.91	.88	.85	.88	.86	.83	.83	.82	.82	.82
3	.98	.90	.84	.80	.96	.89	.84	.79	.86	.82	.78	.84	.80	.77	.82	.78	.75	.75	.74	.74	.74
4	.92	.83	.77	.72	.90	.82	.76	.71	.80	.75	.70	.78	.73	.70	.76	.72	.69	.69	.67	.67	.67
5	.87	.77	.70	.64	.85	.76	.69	.64	.74	.68	.64	.72	.67	.63	.70	.66	.62	.62	.61	.61	.61
6	.81	.71	.64	.59	.79	.70	.63	.58	.68	.62	.58	.67	.61	.57	.65	.60	.57	.57	.56	.56	.55
7	.76	.65	.58	.53	.74	.64	.57	.53	.63	.57	.52	.61	.56	.52	.60	.55	.52	.52	.51	.51	.50
8	.71	.60	.53	.48	.70	.59	.53	.48	.58	.52	.48	.57	.52	.48	.56	.51	.47	.47	.46	.46	.46
9	.67	.56	.49	.44	.66	.55	.49	.44	.54	.48	.44	.53	.48	.44	.52	.47	.43	.43	.42	.42	.42
10	.63	.52	.45	.41	.62	.51	.45	.41	.50	.45	.40	.50	.44	.40	.49	.44	.40	.40	.39	.39	.39

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES
 LUMINAIRE INPUT WATTS = 6.7
 LABORATORY RESULT MAY NOT BE REPRESENTATIVE OF FIELD PERFORMANCE.
 ABSOLUTE PHOTOMETRY TAKEN, APPLICABLE TO TEST SAMPLE ONLY.