



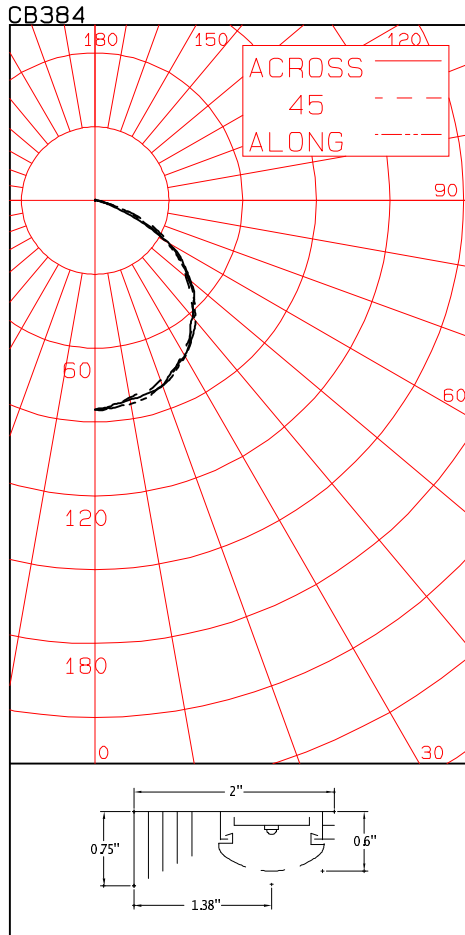
LIGHTING SCIENCES CANADA LTD.

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CERTIFIED TEST REPORT NO. LSC B384
 COMPUTED BY LSC PROGRAM **TEST-LITE**

GVA LIGHTING LED LUMINAIRE CAT. NO. STR8-1'-CM-CLR-RG300-CWTB-12
 WITH DIFFUSE INTERIOR AND PLASTIC LENS
 TWELVE NICHIA RIGEL 0.5W NFSW036BT RANK B5P9 LEDS. LUMEN OUTPUT = 223 LMS.
 DRIVEN AT 150mA AT INPUT VOLTAGE OF 24VDC

CANDLEPOWER SUMMARY OUTPUT LUMENS



ANGLE	ALONG	22.5	45	67.5	ACROSS	OUTPUT LUMENS
0	85	85	85	85	85	
5	85	83	83	84	83	8
15	83	79	81	81	81	23
25	77	74	76	76	76	35
35	69	67	67	68	68	42
45	57	56	55	56	57	43
55	42	40	42	43	43	38
65	24	25	27	23	21	24
75	8	11	8	5	4	9
85	0	1	2	2	2	2
90	0	0	1	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	65	29.38	29.38
0-40	107	48.22	48.22
0-60	188	84.35	84.35
0-90	222	99.81	99.81
40-90	115	51.59	51.59
60-90	34	15.46	15.46
90-180	0	.19	.19
0-180	223	100.00	100.00

LUMINANCE SUMMARY-CD. / SQ. M.

S/MH = 1.3
 SC = 1.3

ANGLE	ALONG	45	ACROSS
45	9508	7596	7326
55	8575	6714	6264
65	6639	5190	3593
75	3462	1955	917
85	440	632	471

CERTIFIED BY:

Charles Sisson

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	85	85	85	85	85	85	
5	85	83	83	84	83	84	8
10	84	82	81	82	82	82	
15	83	79	81	81	81	81	23
20	80	77	78	80	80	79	
25	77	74	76	76	76	75	35
30	73	71	72	73	73	72	
35	69	67	67	68	68	68	42
40	64	62	63	61	62	62	
45	57	56	55	56	57	56	43
50	50	48	48	51	50	49	
55	42	40	42	43	43	42	38
60	33	33	35	35	34	34	
65	24	25	27	23	21	24	24
70	15	18	17	12	10	15	
75	8	11	8	5	4	7	9
80	3	5	3	3	3	3	
85	0	1	2	2	2	1	2
90	0	0	1	1	1	1	
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)			
		22.5	45	67.5	ACROSS
0	10026 (2926)	10026 (2926)	10026 (2926)	10026 (2926)	10026 (2926)
30	9990 (2915)	9065 (2645)	8741 (2551)	8560 (2498)	8458 (2468)
40	9801 (2860)	8715 (2543)	8217 (2398)	7655 (2234)	7600 (2218)
45	9508 (2775)	8362 (2440)	7596 (2217)	7315 (2135)	7326 (2138)
50	9120 (2662)	7817 (2281)	7082 (2067)	6989 (2039)	6814 (1988)
55	8575 (2502)	7168 (2092)	6714 (1959)	6353 (1854)	6264 (1828)
60	7752 (2262)	6477 (1890)	6058 (1768)	5660 (1652)	5279 (1540)
65	6639 (1937)	5568 (1625)	5190 (1515)	3993 (1165)	3593 (1048)
70	5219 (1523)	4684 (1367)	3796 (1108)	2256 (658)	1885 (550)
75	3462 (1010)	3471 (1013)	1955 (570)	1199 (350)	917 (267)
80	1822 (531)	2148 (627)	931 (271)	771 (225)	634 (185)
85	440 (128)	788 (230)	632 (184)	508 (148)	471 (137)

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	1.11	1.07	1.03	1.00	1.08	1.05	1.01	.98	1.00	.98	.95	.96	.94	.92	.93	.91	.90	.90	.90	.90	.88
2	1.02	.95	.90	.85	1.00	.93	.88	.84	.90	.86	.82	.87	.83	.80	.84	.81	.78	.78	.78	.78	.76
3	.94	.85	.78	.72	.92	.83	.77	.72	.81	.75	.70	.78	.73	.69	.75	.71	.68	.68	.68	.68	.66
4	.87	.76	.69	.63	.85	.75	.68	.62	.73	.66	.61	.70	.65	.61	.68	.64	.60	.60	.60	.60	.58
5	.80	.69	.60	.54	.78	.67	.59	.54	.65	.58	.53	.63	.57	.53	.62	.56	.52	.52	.52	.52	.50
6	.74	.61	.53	.47	.72	.60	.53	.47	.59	.52	.46	.57	.51	.46	.56	.50	.46	.46	.46	.46	.44
7	.68	.55	.47	.41	.66	.54	.46	.41	.53	.45	.40	.51	.45	.40	.50	.44	.40	.40	.40	.40	.38
8	.63	.50	.42	.36	.61	.49	.41	.36	.48	.41	.36	.47	.40	.35	.45	.40	.35	.35	.35	.35	.33
9	.58	.45	.37	.32	.57	.45	.37	.32	.43	.36	.31	.42	.36	.31	.41	.35	.31	.31	.31	.31	.29
10	.54	.41	.33	.28	.53	.41	.33	.28	.40	.33	.28	.39	.32	.28	.38	.32	.28	.28	.28	.28	.26

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.