

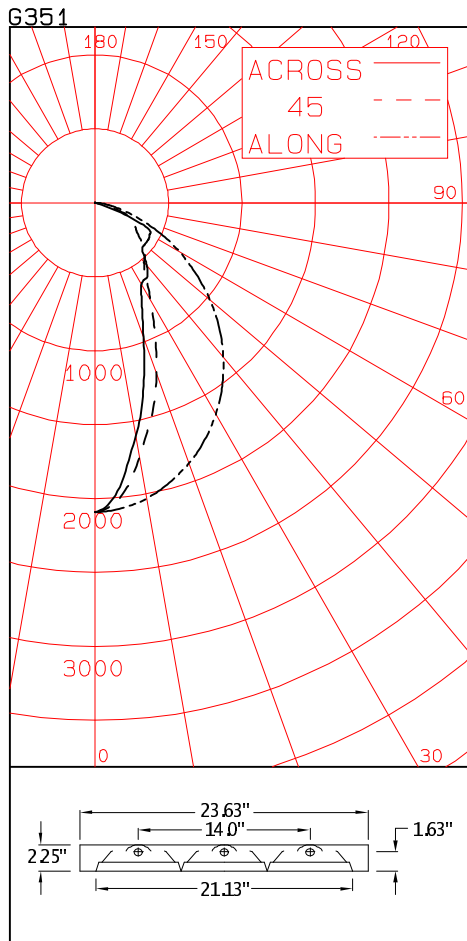


# LIGHTING SCIENCES CANADA LTD.

160 Frobisher Drive, Unit 5, Waterloo, Ontario, Canada N2V 2B1  
 Tel: (519) 746-3140 Fax: (519) 746-3156 lsc@lightingsciences.ca

CERTIFIED TEST REPORT NO. LSC G351  
 COMPUTED BY LSC PROGRAM \*\*TEST-LITE\*\*

KOJIN 2'x2' TROFFER LUMINAIRE CAT. NO. T5T2X2G-L3UV  
 WITH SPECULAR REFLECTORS AND SPECULAR/TANNENBAUM LOUVER  
 THREE 14W T5 FLUORESCENT LAMPS. LUMEN RATING = 1200 LMS.  
 ANTRON ELECTRONICS 120-277V 3-LAMP ELECTRONIC BALLAST CAT. NO. EPT-A14T5M



### CANDLEPOWER SUMMARY OUTPUT LUMENS

ANGLE	ALONG	22.5	45	67.5	ACROSS	2090	2090	2090	2090	2090	
0	2090	2090	2090	2090	2090	2090	2090	2090	2090	2090	
5	2076	2049	1997	1949	1929	186					
10	2031	1937	1746	1628	1598						
15	1960	1759	1495	1333	1281	430					
20	1873	1553	1227	1019	965						
25	1769	1369	966	788	755	504					
30	1648	1175	756	639	634						
35	1511	960	606	591	617	503					
40	1359	765	519	546	550						
45	1197	594	481	464	456	458					
50	1023	458	416	413	441						
55	843	355	349	405	441	394					
60	667	285	316	389	430						
65	494	217	278	357	381	305					
70	328	163	227	172	143						
75	197	107	90	12	1	97					
80	103	47	21	1	0						
85	40	16	4	0	0	13					
90	0	0	0	0	0						

### ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LAMP	% LUMINAIRE
0-30	1119	31.10	38.76
0-40	1622	45.08	56.18
0-60	2474	68.73	85.66
0-90	2888	80.24	100.00
40-90	1265	35.16	43.82
60-90	414	11.51	14.34
90-180	0	.00	.00
0-180	2888	80.24	100.00

\*\* EFFICIENCY = 80.2% \*\*

### LUMINANCE SUMMARY-CD. / SQ. M.

ANGLE	ALONG	45	ACROSS
45	5844	2356	2234
55	5071	2108	2662
65	4036	2279	3125
75	2623	1199	8
85	1586	168	0

S/MH = .6  
 SC (ALONG) = 1.2, SC (ACROSS) = .6

CERTIFIED BY:  
*Charles Sison* DATE: JAN 2, 2013  
 PREPARED FOR:  
 KOJIN INC.  
 MISSISSAUGA, ONTARIO

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

LIGHTING SCIENCES CANADA LTD.  
 160 FROBISHER DRIVE, UNIT 5  
 WATERLOO, ONTARIO

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CANDLEPOWER DATA  
 IN 2.5 DEGREE STEPS

ANGLE	PLANE						OUTPUT LUMENS
	ALONG	22.5	45	67.5	ACROSS	AVERAGE	
.0	2090	2090	2090	2090	2090	2090	
2.5	2088	2079	2065	2049	2044	2065	
5.0	2076	2049	1997	1949	1929	1999	186
7.5	2056	2003	1885	1787	1755	1895	
10.0	2031	1937	1746	1628	1598	1781	
12.5	1997	1854	1611	1493	1452	1670	
15.0	1960	1759	1495	1333	1281	1552	430
17.5	1918	1657	1366	1170	1114	1427	
20.0	1873	1553	1227	1019	965	1305	
22.5	1823	1458	1091	889	847	1193	
25.0	1769	1369	966	788	755	1096	504
27.5	1711	1277	853	705	681	1007	
30.0	1648	1175	756	639	634	928	
32.5	1581	1067	677	602	620	861	
35.0	1511	960	606	591	617	805	503
37.5	1437	858	552	579	586	750	
40.0	1359	765	519	546	550	696	
42.5	1280	676	501	509	501	644	
45.0	1197	594	481	464	456	591	458
47.5	1111	523	449	426	442	543	
50.0	1023	458	416	413	441	505	
52.5	932	401	379	409	441	469	
55.0	843	355	349	405	441	438	394
57.5	754	318	332	399	438	411	
60.0	667	285	316	389	430	385	
62.5	582	249	298	374	426	356	
65.0	494	217	278	357	381	322	305
67.5	407	189	254	279	263	264	
70.0	328	163	227	172	143	200	
72.5	261	137	163	75	36	131	
75.0	197	107	90	12	1	77	97
77.5	141	73	39	4	0	47	
80.0	103	47	21	1	0	30	
82.5	70	30	11	0	0	19	
85.0	40	16	4	0	0	10	13
87.5	15	4	1	0	0	3	
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	7216( 2106)	7216( 2106)	7216( 2106)	7216( 2106)	7216( 2106)
30	6569( 1917)	4695( 1370)	3022( 882)	2551( 744)	2526( 737)
40	6124( 1787)	3455( 1008)	2341( 683)	2468( 720)	2478( 723)
45	5844( 1705)	2905( 847)	2356( 687)	2270( 662)	2234( 652)
50	5496( 1604)	2470( 721)	2233( 651)	2226( 649)	2366( 690)
55	5071( 1480)	2137( 623)	2108( 615)	2444( 713)	2662( 777)
60	4606( 1344)	1976( 576)	2181( 636)	2689( 784)	2971( 867)
65	4036( 1178)	1776( 518)	2279( 665)	2924( 853)	3125( 912)
70	3314( 967)	1654( 482)	2298( 670)	1743( 508)	1445( 422)
75	2623( 765)	1438( 419)	1199( 350)	162( 47)	8( 2)
80	2039( 595)	932( 272)	411( 120)	12( 3)	0( 0)
85	1586( 463)	651( 190)	168( 49)	0( 0)	0( 0)

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	.96	.96	.96	.96	.93	.93	.93	.93	.89	.89	.89	.85	.85	.85	.82	.82	.82	.80			
1	.89	.86	.84	.81	.87	.85	.82	.80	.81	.79	.77	.78	.76	.75	.75	.74	.73	.71			
2	.83	.77	.73	.69	.81	.76	.72	.68	.73	.70	.67	.71	.68	.65	.68	.66	.64	.62			
3	.77	.70	.64	.60	.75	.68	.63	.59	.66	.62	.58	.64	.61	.57	.62	.59	.57	.55			
4	.71	.63	.57	.52	.69	.62	.56	.52	.60	.55	.51	.58	.54	.51	.57	.53	.50	.48			
5	.66	.57	.50	.45	.64	.56	.50	.45	.54	.49	.45	.52	.48	.44	.51	.47	.44	.42			
6	.61	.51	.45	.41	.59	.51	.45	.40	.49	.44	.40	.48	.43	.40	.47	.43	.39	.38			
7	.57	.47	.41	.36	.55	.46	.40	.36	.45	.40	.36	.44	.39	.35	.43	.39	.35	.34			
8	.53	.43	.37	.32	.52	.42	.36	.32	.41	.36	.32	.40	.35	.32	.39	.35	.31	.30			
9	.49	.39	.33	.29	.48	.38	.33	.29	.38	.32	.28	.37	.32	.28	.36	.31	.28	.27			
10	.46	.36	.30	.26	.45	.35	.30	.26	.35	.29	.26	.34	.29	.25	.33	.29	.25	.24			

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES  
 LUMINAIRE INPUT WATTS = 46.1  
 LABORATORY RESULT MAY NOT BE REPRESENTATIVE OF FIELD PERFORMANCE.  
 BALLAST FACTORS HAVE NOT BEEN APPLIED.