

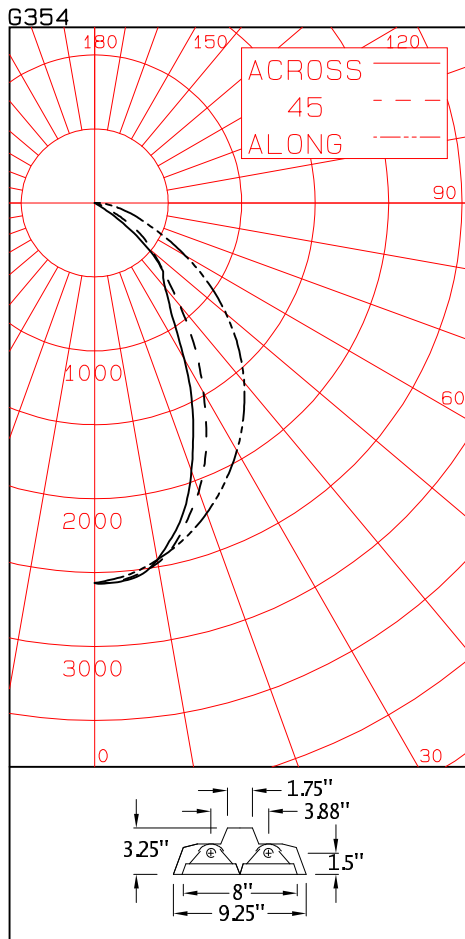


LIGHTING SCIENCES CANADA LTD.

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CERTIFIED TEST REPORT NO. LSC G354
 COMPUTED BY LSC PROGRAM **TEST-LITE**

KOJIN 4 FT. GRILL LIGHT CAT. NO. KT5G120-L2UV
 WITH SPECULAR REFLECTOR AND SPECULAR/TANNENBAUM LOUVER
 TWO 28W T5 FLUORESCENT LAMPS. LUMEN RATING = 2600 LMS.
 ANTRON ELECTRONICS 120-277V 1/2-LAMP ELECTRONIC BALLAST NO. EPD-A28T5M



CANDLEPOWER SUMMARY OUTPUT LUMENS

ANGLE	ALONG	22.5	45	67.5	ACROSS	2572	2572	2572	2572	2572
0	2572	2572	2572	2572	2572	2572	2572	2572	2572	2572
5	2528	2547	2550	2555	2559	2559	2559	2559	2559	244
10	2451	2469	2473	2462	2452	2452	2452	2452	2452	641
15	2352	2362	2296	2243	2236	2236	2236	2236	2236	641
20	2231	2214	2074	1961	1925	1925	1925	1925	1925	829
25	2091	2018	1798	1612	1581	1581	1581	1581	1581	829
30	1935	1796	1482	1271	1217	1217	1217	1217	1217	788
35	1764	1570	1189	941	907	907	907	907	907	788
40	1582	1327	897	743	744	744	744	744	744	649
45	1383	1076	669	610	656	656	656	656	656	649
50	1169	846	517	477	459	459	459	459	459	417
55	945	634	403	259	213	213	213	213	213	417
60	711	457	246	66	18	18	18	18	18	176
65	497	317	107	9	2	2	2	2	2	176
70	341	205	44	5	0	0	0	0	0	70
75	227	125	18	1	0	0	0	0	0	70
80	134	64	5	0	0	0	0	0	0	14
85	52	18	0	0	0	0	0	0	0	14
90	0	0	0	0	0	0	0	0	0	0

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LAMP	% LUMINAIRE
0-30	1714	32.97	44.77
0-40	2502	48.13	65.35
0-60	3569	68.63	93.20
0-90	3829	73.65	100.00
40-90	1327	25.52	34.65
60-90	260	5.01	6.80
90-180	0	.00	.00
0-180	3829	73.65	100.00

** EFFICIENCY = 73.6% **

LUMINANCE SUMMARY-CD. / SQ. M.

ANGLE	ALONG	45	ACROSS
45	8375	4067	3986
55	7053	3022	1593
65	5040	1087	18
75	3761	293	0
85	2552	0	0

S/MH = .9
 SC (ALONG) = 1.1, SC (ACROSS) = .9

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.

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CANDLEPOWER DATA
 IN 2.5 DEGREE STEPS

ANGLE	PLANE						OUTPUT LUMENS
	ALONG	22.5	45	67.5	ACROSS	AVERAGE	
.0	2572	2572	2572	2572	2572	2572	
2.5	2550	2571	2571	2571	2572	2568	
5.0	2528	2547	2550	2555	2559	2549	244
7.5	2494	2512	2517	2528	2527	2517	
10.0	2451	2469	2473	2462	2452	2464	
12.5	2404	2420	2401	2353	2345	2387	
15.0	2352	2362	2296	2243	2236	2299	641
17.5	2295	2293	2185	2113	2096	2196	
20.0	2231	2214	2074	1961	1925	2082	
22.5	2164	2123	1943	1785	1749	1952	
25.0	2091	2018	1798	1612	1581	1816	829
27.5	2014	1907	1638	1445	1407	1675	
30.0	1935	1796	1482	1271	1217	1531	
32.5	1851	1684	1334	1096	1044	1391	
35.0	1764	1570	1189	941	907	1259	788
37.5	1675	1450	1039	822	823	1140	
40.0	1582	1327	897	743	744	1033	
42.5	1485	1199	769	665	688	930	
45.0	1383	1076	669	610	656	844	649
47.5	1277	958	593	564	576	760	
50.0	1169	846	517	477	459	663	
52.5	1059	738	458	368	337	565	
55.0	945	634	403	259	213	469	417
57.5	828	540	326	155	97	371	
60.0	711	457	246	66	18	283	
62.5	601	384	171	17	3	219	
65.0	497	317	107	9	2	171	176
67.5	408	256	64	6	1	133	
70.0	341	205	44	5	0	106	
72.5	281	163	29	3	0	84	
75.0	227	125	18	1	0	64	70
77.5	178	93	10	0	0	48	
80.0	134	64	5	0	0	34	
82.5	92	39	1	0	0	22	
85.0	52	18	0	0	0	11	14
87.5	15	3	0	0	0	3	
90.0	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	11010 (3213)	11010 (3213)	11010 (3213)	11010 (3213)	11010 (3213)
30	9566 (2792)	8902 (2598)	7346 (2144)	6300 (1838)	6019 (1756)
40	8840 (2580)	7439 (2171)	5016 (1464)	4165 (1215)	4160 (1214)
45	8375 (2444)	6521 (1903)	4067 (1187)	3704 (1081)	3986 (1163)
50	7784 (2271)	5655 (1650)	3444 (1005)	3184 (929)	3057 (892)
55	7053 (2058)	4744 (1384)	3022 (882)	1935 (564)	1593 (465)
60	6092 (1778)	3923 (1145)	2106 (614)	566 (165)	151 (44)
65	5040 (1471)	3216 (938)	1087 (317)	93 (27)	18 (5)
70	4269 (1246)	2572 (750)	552 (161)	61 (17)	0 (0)
75	3761 (1097)	2080 (607)	293 (85)	20 (5)	0 (0)
80	3315 (967)	1588 (463)	121 (35)	0 (0)	0 (0)
85	2552 (744)	903 (263)	0 (0)	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	.88	.88	.88	.88	.86	.86	.86	.86	.82	.82	.82	.78	.78	.78	.75	.75	.75	.75	.75	.75	.74
1	.83	.80	.78	.76	.81	.79	.76	.75	.75	.74	.72	.73	.71	.70	.70	.69	.68	.68	.68	.68	.67
2	.77	.73	.69	.66	.76	.71	.68	.65	.69	.66	.64	.67	.65	.63	.65	.63	.61	.61	.61	.61	.60
3	.72	.66	.62	.58	.71	.65	.61	.58	.63	.60	.57	.61	.59	.56	.60	.57	.55	.55	.55	.55	.54
4	.67	.61	.56	.52	.66	.60	.55	.51	.58	.54	.51	.56	.53	.50	.55	.52	.50	.50	.50	.50	.48
5	.63	.55	.50	.46	.61	.54	.49	.46	.53	.49	.45	.52	.48	.45	.50	.47	.44	.44	.44	.44	.43
6	.59	.51	.45	.41	.57	.50	.45	.41	.49	.44	.41	.48	.44	.40	.47	.43	.40	.40	.40	.40	.39
7	.55	.46	.41	.37	.54	.46	.41	.37	.45	.40	.37	.44	.40	.36	.43	.39	.36	.36	.36	.36	.35
8	.51	.42	.37	.33	.50	.42	.37	.33	.41	.36	.33	.40	.36	.33	.39	.35	.32	.32	.32	.32	.31
9	.47	.39	.33	.29	.46	.38	.33	.29	.37	.33	.29	.37	.32	.29	.36	.32	.29	.29	.29	.29	.28
10	.44	.35	.30	.27	.43	.35	.30	.27	.34	.30	.26	.34	.29	.26	.33	.29	.26	.26	.26	.26	.25

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES
 LUMINAIRE INPUT WATTS = 55.4
 LABORATORY RESULT MAY NOT BE REPRESENTATIVE OF FIELD PERFORMANCE.
 BALLAST FACTORS HAVE NOT BEEN APPLIED.