

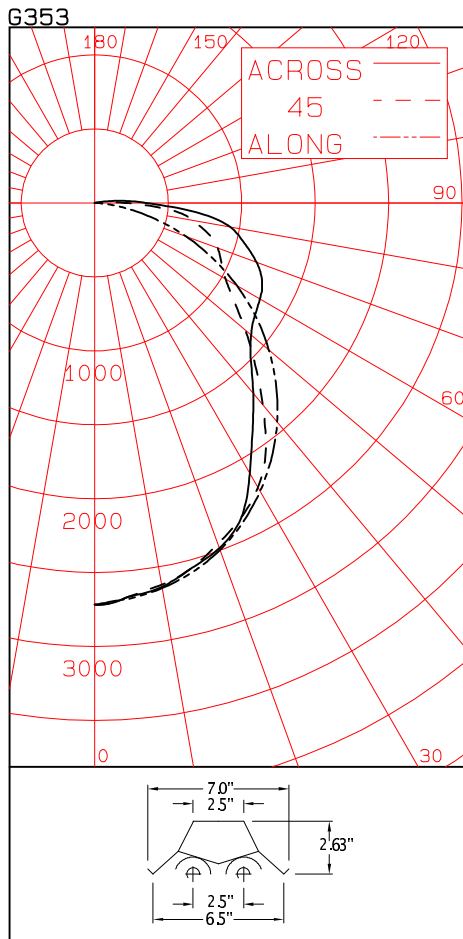


LIGHTING SCIENCES CANADA LTD.

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CERTIFIED TEST REPORT NO. LSC G353
 COMPUTED BY LSC PROGRAM **TEST-LITE**

KOJIN 4 FT. HIGH OUTPUT UTILITY LIGHT CAT. NO. KT5UL120-L2UVHO
 WITH SPECULAR REFLECTORS
 TWO 54W T5 HO FLUORESCENT LAMPS. LUMEN RATING = 4450 LMS.
 ANTRON ELECTRONICS 120-277V 1/2-LAMP ELECTRONIC BALLAST NO. TSD-UV55PBXM



CANDLEPOWER SUMMARY

OUTPUT LUMENS

ANGLE	ALONG	22.5	45	67.5	ACROSS	
0	2718	2718	2718	2718	2718	
5	2686	2700	2674	2674	2674	258
15	2583	2556	2554	2550	2557	721
25	2384	2353	2351	2362	2354	1081
35	2101	2061	2032	1900	1874	1245
45	1747	1730	1545	1500	1503	1235
55	1338	1267	1157	1264	1330	1126
65	887	779	951	1179	1258	985
75	433	475	797	987	1054	794
85	63	280	505	630	677	468
90	1	82	205	308	349	
95	0	4	55	134	167	87
105	0	0	0	0	0	1
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	2060	23.15	25.75
0-40	3305	37.14	41.31
0-60	5667	63.68	70.83
0-90	7913	88.92	98.91
40-90	4608	51.78	57.59
60-90	2246	25.24	28.08
90-180	87	.98	1.09
0-180	8001	89.90	100.00

** EFFICIENCY = 89.9% **

LUMINANCE SUMMARY-CD. / SQ. M.

S/MH = 1.2
 SC = 1.2

ANGLE	ALONG	45	ACROSS
45	12810	10996	10551
55	12089	10013	11291
65	10876	10915	14038
75	8675	14191	17973
85	3758	21691	26076

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

ANGLE	PLANE						OUTPUT LUMENS
	ALONG	22.5	45	67.5	ACROSS	AVERAGE	
0	2718	2718	2718	2718	2718	2718	
5	2686	2700	2674	2674	2674	2682	258
10	2646	2631	2622	2636	2637	2633	
15	2583	2556	2554	2550	2557	2557	721
20	2497	2467	2453	2474	2484	2471	
25	2384	2353	2351	2362	2354	2359	1081
30	2252	2212	2222	2149	2111	2191	
35	2101	2061	2032	1900	1874	1995	1245
40	1933	1904	1778	1690	1679	1794	
45	1747	1730	1545	1500	1503	1600	1235
50	1548	1522	1339	1352	1390	1420	
55	1338	1267	1157	1264	1330	1256	1126
60	1115	1006	1029	1220	1298	1116	
65	887	779	951	1179	1258	995	985
70	658	591	891	1104	1172	875	
75	433	475	797	987	1054	751	794
80	229	394	676	873	938	632	
85	63	280	505	630	677	446	468
90	1	82	205	308	349	192	
95	0	4	55	134	167	69	87
100	0	0	0	7	16	4	
105	0	0	0	0	0	0	1
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	14087(4111)	14087(4111)	14087(4111)	14087(4111)	14087(4111)
30	13482(3935)	13139(3834)	13077(3816)	12574(3670)	12293(3587)
40	13079(3817)	12720(3712)	11708(3417)	11053(3226)	10918(3186)
45	12810(3738)	12466(3638)	10996(3209)	10558(3081)	10551(3079)
50	12481(3642)	12057(3519)	10377(3028)	10383(3030)	10599(3093)
55	12089(3528)	11180(3263)	10013(2922)	10777(3145)	11291(3295)
60	11559(3373)	10147(2961)	10084(2943)	11779(3438)	12422(3625)
65	10876(3174)	9203(2686)	10915(3185)	13242(3865)	14038(4097)
70	9971(2910)	8558(2497)	12390(3616)	14948(4362)	15691(4579)
75	8675(2532)	8935(2607)	14191(4142)	17017(4966)	17973(5245)
80	6845(1998)	10689(3119)	16976(4954)	20844(6083)	21994(6419)
85	3758(1096)	13821(4033)	21691(6330)	24959(7284)	26076(7610)

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	1.0	.71	.071	.071	1.0	.41	.041	.041	.04	.99	.99	.99	.95	.95	.95	.91	.91	.91	.89		
1	.97	.92	.88	.84	.94	.90	.86	.82	.85	.82	.79	.82	.79	.77	.78	.76	.74	.72			
2	.87	.80	.73	.68	.85	.78	.72	.67	.74	.69	.65	.71	.67	.63	.68	.65	.62	.60			
3	.80	.70	.63	.57	.78	.69	.62	.56	.66	.60	.55	.63	.58	.54	.61	.57	.53	.51			
4	.73	.62	.54	.48	.71	.61	.54	.48	.59	.52	.47	.56	.51	.46	.54	.49	.45	.43			
5	.67	.55	.47	.41	.65	.54	.46	.40	.52	.45	.40	.50	.44	.39	.48	.43	.39	.37			
6	.62	.49	.41	.35	.60	.48	.41	.35	.47	.40	.35	.45	.39	.34	.44	.38	.34	.32			
7	.57	.45	.37	.31	.55	.44	.36	.31	.42	.35	.30	.41	.35	.30	.40	.34	.30	.28			
8	.53	.40	.32	.27	.51	.39	.32	.27	.38	.31	.26	.37	.31	.26	.36	.30	.26	.24			
9	.49	.36	.29	.23	.47	.36	.28	.23	.34	.28	.23	.33	.27	.23	.32	.27	.22	.21			
10	.45	.33	.25	.21	.44	.32	.25	.21	.31	.25	.20	.30	.24	.20	.30	.24	.20	.18			

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES
 LUMINAIRE INPUT WATTS = 119.3
 LABORATORY RESULT MAY NOT BE REPRESENTATIVE OF FIELD PERFORMANCE.
 BALLAST FACTORS HAVE NOT BEEN APPLIED.