

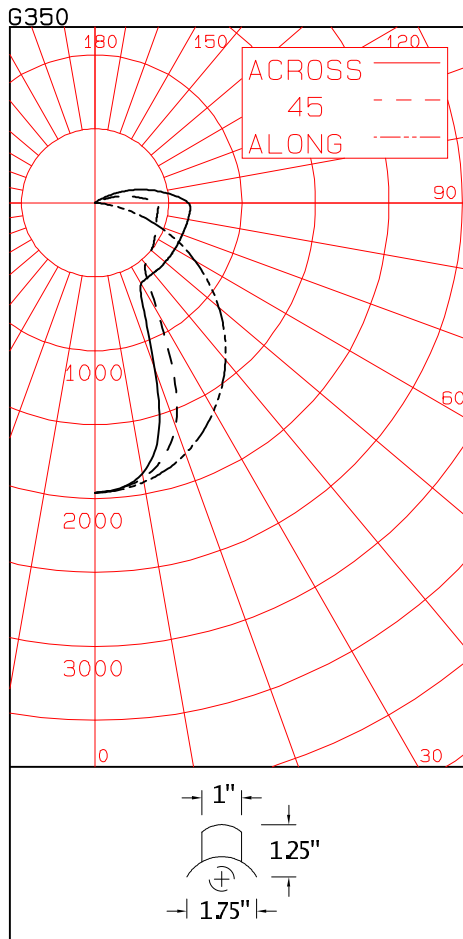


LIGHTING SCIENCES CANADA LTD.

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 G350
 COMPUTED BY LSC PROGRAM **TEST-LITE**

KOJIN 8 FT. CONVERSION KIT CAT. NO. T5C240UV
 WITH SPECULAR REFLECTORS
 TWO 28W T5 FLUORESCENT LAMPS. LUMEN RATING = 2600 LMS.
 TWO KOJIN 90-277V ELECTRONIC BALLASTS



CANDLEPOWER SUMMARY

OUTPUT LUMENS

ANGLE	ALONG	22.5	45	67.5	ACROSS	1960	1960
0	1960	1960	1960	1960	1960	1960	1960
5	1948	1955	1938	1940	1939	187	
15	1871	1855	1786	1694	1656	490	
25	1720	1648	1257	854	777	576	
35	1508	1293	616	602	620	560	
45	1247	692	517	595	624	531	
55	948	364	488	589	625	501	
65	625	288	455	585	630	485	
75	300	230	434	587	637	455	
85	34	200	431	595	649	429	
90	1	191	420	582	634		
95	0	118	336	496	548	333	
105	0	7	163	298	343	173	
115	0	0	23	118	152	57	
125	0	0	0	0	8	4	
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	0	

ZONE	LUMENS	% LAMP	% LUMINAIRE
0-30	1252	24.09	26.21
0-40	1812	34.86	37.92
0-60	2843	54.69	59.49
0-90	4212	81.01	88.12
40-90	2399	46.15	50.20
60-90	1368	26.32	28.63
90-180	567	10.92	11.88
0-180	4780	91.93	100.00

** EFFICIENCY = 91.9% **

LUMINANCE SUMMARY-CD. / SQ. M.

S/MH = .7

SC (ALONG) = 1.2, SC (ACROSS) = .7

ANGLE	ALONG	45	ACROSS
45	17304	5867	6576
55	16220	6322	7358
65	14519	7131	8692
75	11367	8923	11025
85	3787	13542	15685

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

CERTIFIED TEST REPORT NO. LSC G350
 COMPUTED BY LSC PROGRAM **TEST-LITE**

KOJIN 8 FT. CONVERSION KIT CAT. NO. T5C240UV
 WITH SPECULAR REFLECTORS
 TWO 28W T5 FLUORESCENT LAMPS. LUMEN RATING = 2600 LMS.
 TWO KOJIN 90-277V ELECTRONIC BALLASTS

CANDLEPOWER DATA

ANGLE	PLANE						OUTPUT LUMENS
	ALONG	22.5	45	67.5	ACROSS	AVERAGE	
0	1960	1960	1960	1960	1960	1960	
5	1948	1955	1938	1940	1939	1944	187
10	1918	1914	1892	1869	1860	1891	
15	1871	1855	1786	1694	1656	1774	490
20	1804	1768	1604	1304	1188	1543	
25	1720	1648	1257	854	777	1252	576
30	1621	1493	855	634	630	1027	
35	1508	1293	616	602	620	894	560
40	1383	999	538	596	620	784	
45	1247	692	517	595	624	685	531
50	1101	472	500	593	623	607	
55	948	364	488	589	625	557	501
60	789	323	469	587	627	522	
65	625	288	455	585	630	489	485
70	460	258	444	585	632	458	
75	300	230	434	587	637	430	455
80	155	210	432	591	643	408	
85	34	200	431	595	649	392	429
90	1	191	420	582	634	378	
95	0	118	336	496	548	306	333
100	0	56	247	397	446	231	
105	0	7	163	298	343	160	173
110	0	0	87	205	245	104	
115	0	0	23	118	152	54	57
120	0	0	0	42	69	19	
125	0	0	0	0	8	1	4
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	

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

CERTIFIED TEST REPORT NO. LSC G350
COMPUTED BY LSC PROGRAM **TEST-LITE**

KOJIN 8 FT. CONVERSION KIT CAT. NO. T5C240UV
WITH SPECULAR REFLECTORS
TWO 28W T5 FLUORESCENT LAMPS. LUMEN RATING = 2600 LMS.
TWO KOJIN 90-277V ELECTRONIC BALLASTS

AVERAGE LUMINANCE DATA

ANGLE	ALONG	CD. / SQ. M. (FOOTLAMBERTS)				ACROSS
		22.5	45	67.5		
0	19238 (5615)	19238 (5615)	19238 (5615)	19238 (5615)	19238 (5615)	
30	18366 (5360)	15842 (4623)	8588 (2506)	6145 (1793)	6020 (1757)	
40	17717 (5171)	11636 (3396)	5792 (1690)	6131 (1789)	6254 (1825)	
45	17304 (5050)	8557 (2497)	5867 (1712)	6384 (1863)	6576 (1919)	
50	16813 (4907)	6307 (1841)	6009 (1754)	6700 (1955)	6879 (2007)	
55	16220 (4734)	5310 (1549)	6322 (1845)	7094 (2070)	7358 (2147)	
60	15479 (4517)	5248 (1531)	6616 (1931)	7626 (2225)	7903 (2306)	
65	14519 (4237)	5301 (1547)	7131 (2081)	8328 (2430)	8692 (2536)	
70	13210 (3855)	5551 (1620)	7869 (2296)	9256 (2701)	9637 (2812)	
75	11367 (3317)	5998 (1750)	8923 (2604)	10587 (3090)	11025 (3218)	
80	8749 (2553)	7032 (2052)	10697 (3122)	12454 (3634)	12881 (3759)	
85	3787 (1105)	9413 (2747)	13542 (3952)	15292 (4463)	15685 (4577)	

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES

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

CERTIFIED TEST REPORT NO. LSC G350
 COMPUTED BY LSC PROGRAM **TEST-LITE**

KOJIN 8 FT. CONVERSION KIT CAT. NO. T5C240UV
 WITH SPECULAR REFLECTORS
 TWO 28W T5 FLUORESCENT LAMPS. LUMEN RATING = 2600 LMS.
 TWO KOJIN 90-277V ELECTRONIC BALLASTS

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	1.07	1.07	1.07	1.07	1.03	1.03	1.03	1.03	.96	.96	.96	.90	.90	.90	.84	.84	.84	.81			
1	.96	.90	.86	.81	.92	.87	.83	.79	.81	.78	.75	.76	.73	.70	.71	.68	.66	.64			
2	.86	.78	.71	.66	.83	.75	.69	.64	.70	.65	.61	.66	.62	.58	.61	.58	.55	.52			
3	.79	.69	.61	.55	.76	.67	.60	.54	.63	.57	.52	.59	.54	.49	.55	.51	.47	.45			
4	.73	.62	.54	.47	.70	.60	.52	.46	.56	.50	.45	.53	.47	.43	.49	.45	.41	.39			
5	.67	.55	.47	.40	.64	.53	.45	.40	.50	.43	.38	.47	.41	.37	.44	.40	.36	.33			
6	.62	.50	.42	.36	.59	.48	.41	.35	.45	.39	.34	.43	.37	.33	.41	.35	.32	.29			
7	.57	.45	.37	.32	.55	.44	.36	.31	.41	.35	.30	.39	.33	.29	.37	.32	.28	.26			
8	.53	.41	.33	.28	.51	.40	.33	.28	.38	.31	.27	.36	.30	.26	.34	.29	.25	.23			
9	.50	.38	.30	.25	.48	.36	.29	.24	.34	.28	.24	.33	.27	.23	.31	.26	.22	.21			
10	.46	.34	.27	.22	.45	.33	.27	.22	.32	.26	.21	.30	.25	.21	.29	.24	.20	.18			

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES
 LUMINAIRE INPUT WATTS = 56.1
 LABORATORY RESULT MAY NOT BE REPRESENTATIVE OF FIELD PERFORMANCE.
 BALLAST FACTORS HAVE NOT BEEN APPLIED.