



# Lighting Sciences

www.lightingsciences.com

Lighting Sciences Inc.  
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Scottsdale, Arizona 85260 USA  
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CERTIFIED TEST REPORT No.

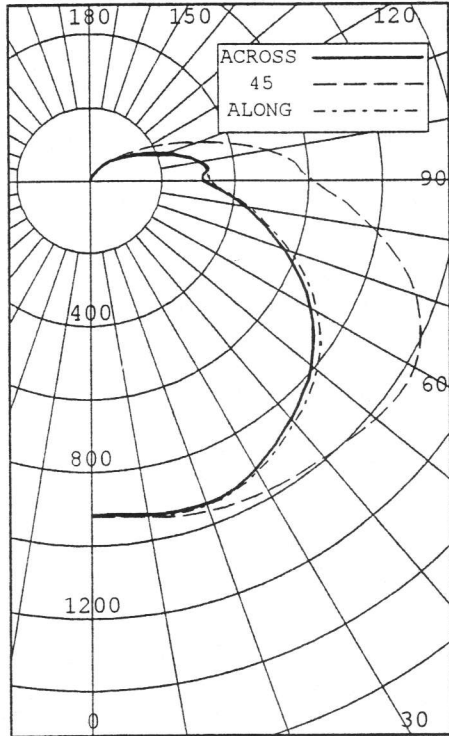
22951

ESCO LIGHTING - 12" SQUARE SURFACE MOUNT LUMINAIRE, CAT# S100I435BBZ-1  
WITH WHITE INTERIOR AND PRISMATIC PLASTIC DROP LENS  
ONE SYL. 100 W INDUCTION LAMP, CAT# ICE100/835/2P/ECO. LUMEN RATING = 8000 LMS. *Lumen Output 6,267 lumen*  
ONE SYLVANIA QT 1X100 ICE/UNV-T GENERATOR OPERATING AT 120 VAC AND 89 WATTS

### INTENSITY (CANDLEPOWER) SUMMARY

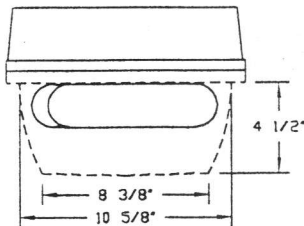
OUTPUT LUMENS

ANGLE	ALONG	22.5	45	67.5	ACROSS	
0	918	918	918	918	918	
5	923	924	923	920	919	90
15	942	948	951	942	937	268
25	938	959	971	953	934	440
35	894	942	985	926	883	587
45	840	932	1003	904	823	709
55	765	912	1025	869	744	796
65	653	847	990	792	633	809
75	516	733	878	677	501	736
85	380	584	701	536	369	597
90	330	508	608	456	308	
95	330	475	566	440	325	484
105	265	338	397	317	263	349
115	178	210	244	199	176	208
125	115	123	141	118	116	113
135	71	66	78	68	71	56
145	37	32	30	34	37	22
155	8	6	3	4	8	3
165	0	1	1	0	0	0
175	0	0	0	0	0	0
180	0	0	0	0	0	0



ZONE	LUMENS	% LAMP	% LUMINAIRE
0-30	797	9.97	12.73
0-40	1384	17.31	22.09
0-60	2889	36.12	46.10
0-90	5031	62.89	80.28
40-90	3646	45.59	58.19
60-90	2142	26.78	34.18
90-180	1235	15.45	19.72
0-180	6267	78.34	100.00

\*\* EFFICIENCY: 78.3% \*\*



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

PAINT REFLECTANCE: 0.86 , S/MH: 1.5  
SC: 1.5

ANGLE	ALONG	45	ACROSS
45	16038	16661	15774
55	15551	17576	15171
65	14657	18100	14267
75	13387	17747	13058
85	12114	16446	11803

CERTIFIED BY: *Jan Lewin* DATE: OCT 11, 2007  
PREPARED FOR: ESCO LIGHTING INC.  
CHICAGO, IL

TESTED IN ACCORDANCE WITH IES PROCEDURES.

LIGHTING SCIENCES, INC.  
 7826 E. EVANS RD.  
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 WITH WHITE INTERIOR AND PRISMATIC PLASTIC DROP LENS  
 ONE SYL. 100 W INDUCTION LAMP, CAT# ICE100/835/2P/ECO. LUMEN RATING = 8000 LMS.  
 ONE SYLVANIA QT 1X100 ICE/UNV-T GENERATOR OPERATING AT 120 VAC AND 89 WATTS

INTENSITY (CANDLEPOWER) DATA

ANGLE	PLANE						OUTPUT LUMENS
	ALONG	22.5	45	67.5	ACROSS	AVERAGE	
0	918	918	918	918	918	918	
5	923	924	923	920	919	922	90
10	934	936	935	931	930	933	
15	942	948	951	942	937	945	268
20	945	957	962	951	941	953	
25	938	959	971	953	934	955	440
30	919	954	978	943	912	947	
35	894	942	985	926	883	935	587
40	866	934	992	912	853	924	
45	840	932	1003	904	823	918	709
50	805	928	1016	891	787	908	
55	765	912	1025	869	744	890	796
60	714	887	1018	837	693	861	
65	653	847	990	792	633	818	809
70	588	797	945	740	569	765	
75	516	733	878	677	501	699	736
80	450	663	789	608	437	626	
85	380	584	701	536	369	549	597
90	330	508	608	456	308	473	
95	330	475	566	440	325	452	484
100	308	415	492	384	302	399	
105	265	338	397	317	263	329	349
110	219	267	312	252	217	262	
115	178	210	244	199	176	208	208
120	144	162	185	154	143	161	
125	115	123	141	118	116	124	113
130	92	94	106	90	92	96	
135	71	66	78	68	71	71	56
140	53	47	55	50	52	51	
145	37	32	30	34	37	33	22
150	23	19	7	20	23	17	
155	8	6	3	4	8	5	3
160	1	2	2	0	0	1	
165	0	1	1	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	CD./SQ.M.		(FOOTLAMBERTS)			
	ALONG	22.5	45	67.5	ACROSS	
0	19688 ( 5746)	19688 ( 5746)	19688 ( 5746)	19688 ( 5746)	19688 ( 5746)	19688 ( 5746)
30	16985 ( 4957)	16398 ( 4786)	16404 ( 4787)	16213 ( 4732)	16860 ( 4920)	
40	16246 ( 4741)	15935 ( 4651)	16374 ( 4779)	15564 ( 4542)	15987 ( 4666)	
45	16038 ( 4681)	16008 ( 4672)	16661 ( 4863)	15544 ( 4536)	15774 ( 4603)	
50	15804 ( 4612)	16205 ( 4729)	17032 ( 4971)	15557 ( 4540)	15449 ( 4509)	
55	15551 ( 4538)	16284 ( 4752)	17576 ( 5130)	15538 ( 4535)	15171 ( 4428)	
60	15174 ( 4428)	16355 ( 4773)	17903 ( 5225)	15441 ( 4506)	14726 ( 4298)	
65	14657 ( 4278)	16234 ( 4738)	18100 ( 5282)	15221 ( 4442)	14267 ( 4164)	
70	14092 ( 4113)	16102 ( 4699)	18083 ( 5278)	14936 ( 4359)	13640 ( 3981)	
75	13387 ( 3907)	15725 ( 4589)	17747 ( 5180)	14541 ( 4244)	13058 ( 3811)	
80	12832 ( 3745)	15304 ( 4466)	17081 ( 4985)	14031 ( 4095)	12460 ( 3636)	
85	12114 ( 3535)	14716 ( 4295)	16446 ( 4800)	13530 ( 3949)	11803 ( 3444)	

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CERTIFIED TEST REPORT No. 22951

ESCO LIGHTING - 12" SQUARE SURFACE MOUNT LUMINAIRE, CAT# S100I435BBZ-1  
 WITH WHITE INTERIOR AND PRISMATIC PLASTIC DROP LENS  
 ONE SYL. 100 W INDUCTION LAMP, CAT# ICE100/835/2P/ECO. LUMEN RATING = 8000 LMS.  
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COEFFICIENTS OF UTILIZATION

ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE = .20

CC WALL	90				80				70				50				30				10				0	
	70	50	30	10	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR	0	0.930	0.930	0.930	0.93	0.900	0.900	0.900	0.90	0.860	0.860	0.860	0.86	0.780	0.780	0.78	0.720	0.720	0.72	0.660	0.660	0.66	0.63			
	1	0.830	0.770	0.720	0.68	0.790	0.740	0.690	0.65	0.750	0.710	0.660	0.63	0.640	0.610	0.58	0.580	0.560	0.53	0.530	0.510	0.49	0.46			
	2	0.740	0.660	0.590	0.53	0.700	0.630	0.560	0.51	0.670	0.600	0.540	0.49	0.540	0.500	0.45	0.490	0.460	0.42	0.450	0.420	0.39	0.36			
	3	0.670	0.560	0.480	0.42	0.630	0.540	0.460	0.41	0.600	0.510	0.450	0.39	0.470	0.410	0.37	0.420	0.380	0.34	0.380	0.350	0.31	0.29			
	4	0.610	0.490	0.410	0.35	0.580	0.470	0.400	0.34	0.550	0.450	0.380	0.33	0.410	0.350	0.31	0.370	0.330	0.29	0.340	0.300	0.26	0.24			
	5	0.550	0.430	0.350	0.29	0.530	0.410	0.340	0.28	0.500	0.400	0.320	0.27	0.360	0.300	0.26	0.330	0.280	0.24	0.300	0.260	0.22	0.20			
	6	0.510	0.380	0.300	0.25	0.480	0.370	0.290	0.24	0.450	0.350	0.280	0.23	0.320	0.260	0.22	0.290	0.240	0.20	0.270	0.220	0.19	0.17			
	7	0.460	0.340	0.260	0.21	0.440	0.330	0.250	0.20	0.420	0.310	0.240	0.19	0.280	0.220	0.18	0.260	0.210	0.17	0.240	0.190	0.16	0.14			
	8	0.430	0.310	0.230	0.18	0.410	0.290	0.220	0.17	0.380	0.280	0.210	0.17	0.260	0.200	0.16	0.240	0.180	0.15	0.210	0.170	0.14	0.12			
	9	0.400	0.280	0.200	0.15	0.380	0.270	0.200	0.15	0.360	0.250	0.190	0.15	0.230	0.180	0.14	0.210	0.160	0.13	0.200	0.150	0.12	0.10			
	10	0.360	0.250	0.180	0.14	0.350	0.240	0.170	0.13	0.330	0.230	0.170	0.13	0.210	0.160	0.12	0.190	0.150	0.11	0.180	0.140	0.10	0.09			

LUMINAIRE INPUT WATTS = 89.0

LABORATORY RESULTS MAY NOT BE REPRESENTATIVE OF FIELD PERFORMANCE.  
 BALLAST AND FIELD FACTORS HAVE NOT BEEN APPLIED.

TEST DISTANCE EXCEEDS FIVE TIMES THE GREATEST  
 LUMINOUS OPENING OF LUMINAIRE.