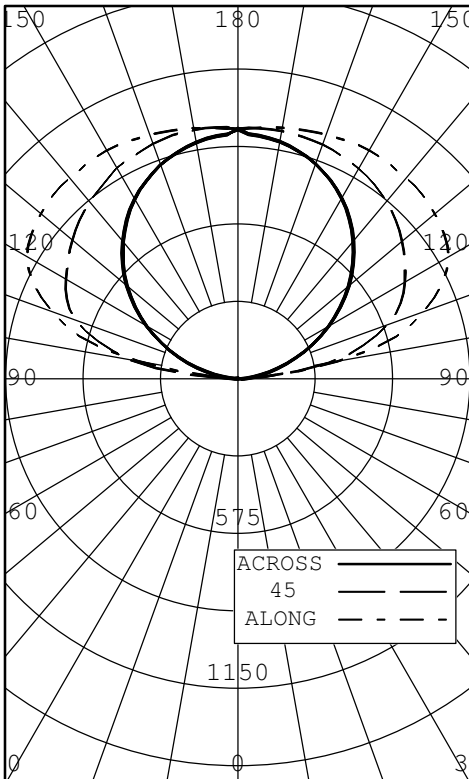


CERTIFIED TEST REPORT No. 25173

ELECTRIX INC - INDIRECT COVE LUMINAIRE, CAT# GTDS754UE46
 WITHIN PREFABRICATED COVE SYSTEM - WITHOUT LENS
 ONE PHILIPS 54W T5 LAMP, CAT# F54T5/835/HO. LUMEN RATING = 4500 LMS.
 ONE SYLVANIA QTP 2X54T5HO/UNV PSN BALLAST OPERATING AT 120 VAC AND 58.3 WATTS

INTENSITY (CANDLEPOWER) SUMMARY OUTPUT LUMENS



ANGLE	ALONG	67.5	45	22.5	ACROSS	OUTPUT LUMENS
180	927	927	927	927	927	
175	936	935	933	922	905	45
170	948	944	935	913	895	
165	956	949	931	899	875	131
160	965	955	925	881	849	
155	973	961	915	854	815	209
150	979	963	901	820	773	
145	978	960	883	780	725	272
140	974	953	860	735	669	
135	969	937	832	687	606	313
130	956	916	797	633	538	
125	937	891	758	577	465	327
120	905	854	717	521	389	
115	839	787	669	463	309	307
110	737	687	593	403	230	
105	611	565	483	343	154	228
100	377	340	342	248	86	
95	98	79	101	127	35	62
90	0	0	0	0	0	

BOTH SIDES
 ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LAMP	% LUMINAIRE
180-150	770	17.11	20.01
180-140	1313	29.18	34.13
180-120	2599	57.75	67.53
180-90	3848	85.51	100.00
140-90	2535	56.33	65.87
120-90	1249	27.77	32.47
0-90	0	0.00	0.00
0-180	3848	85.51	100.00

** EFFICIENCY: 85.5% **

CERTIFIED BY:

DATE:
 MAY 5, 2009

PREPARED FOR:
 ELECTRIX INC
 NEW HAVEN, CT

TESTED IN ACCORDANCE WITH IES PROCEDURES.

LIGHTING SCIENCES, INC.
 7826 E. EVANS RD.
 SCOTTSDALE, AZ, USA 85260

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BEAM SIDE
 INTENSITY(CANDLEPOWER) DATA
 IN 2.5 DEGREE STEPS

ANGLE	PLANE					AVERAGE	OUTPUT LUMENS
	ALONG	67.5	45	22.5	ACROSS		
180.0	927	927	927	927	927	927	
177.5	931	931	933	926	909	927	
175.0	936	935	933	922	905	928	45
172.5	942	940	934	918	901	929	
170.0	948	944	935	913	895	928	
167.5	951	946	934	907	886	926	
165.0	956	949	931	899	875	924	131
162.5	961	952	929	892	863	921	
160.0	965	955	925	881	849	917	
157.5	969	958	920	868	833	912	
155.0	973	961	915	854	815	906	209
152.5	977	963	908	838	795	899	
150.0	979	963	901	820	773	890	
147.5	980	962	893	801	750	880	
145.0	978	960	883	780	725	869	272
142.5	974	958	872	758	697	856	
140.0	974	953	860	735	669	842	
137.5	974	946	846	711	638	827	
135.0	969	937	832	687	606	811	313
132.5	963	927	816	660	573	793	
130.0	956	916	797	633	538	773	
127.5	947	905	778	605	503	753	
125.0	937	891	758	577	465	732	327
122.5	924	874	738	549	427	709	
120.0	905	854	717	521	389	685	
117.5	876	825	695	492	349	656	
115.0	839	787	669	463	309	623	307
112.5	791	742	637	433	270	585	
110.0	737	687	593	403	230	542	
107.5	678	629	541	374	192	495	
105.0	611	565	483	343	154	443	228
102.5	513	471	423	303	119	378	
100.0	377	340	342	248	86	290	
97.5	232	204	223	194	58	192	
95.0	98	79	101	127	35	94	62
92.5	27	20	21	42	16	26	
90.0	0	0	0	0	0	0	

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OPPOSITE SIDE TO BEAM
 INTENSITY(CANDLEPOWER) DATA
 IN 2.5 DEGREE STEPS

ANGLE	PLANE					AVERAGE	OUTPUT LUMENS
	ALONG	112.5	135	157.5	ACROSS		
180.0	927	927	927	927	927	927	
177.5	931	935	937	928	909	930	
175.0	936	939	939	928	906	932	45
172.5	942	943	940	926	901	933	
170.0	948	947	940	923	893	933	
167.5	951	949	939	917	884	931	
165.0	956	953	938	910	873	929	131
162.5	961	953	933	901	860	925	
160.0	965	954	929	890	846	920	
157.5	969	953	923	879	829	913	
155.0	973	953	916	865	810	906	209
152.5	977	953	911	848	791	899	
150.0	979	952	904	830	769	890	
147.5	980	949	890	812	746	878	
145.0	978	942	879	794	721	866	271
142.5	974	933	867	774	693	852	
140.0	974	936	858	752	665	841	
137.5	974	931	845	728	635	827	
135.0	969	927	833	706	605	813	314
132.5	963	919	819	682	573	797	
130.0	956	911	803	656	539	779	
127.5	947	902	787	631	503	761	
125.0	937	893	770	604	467	742	332
122.5	924	883	754	578	430	723	
120.0	905	870	738	551	392	702	
117.5	876	851	721	524	354	678	
115.0	839	822	702	495	312	648	319
112.5	791	781	677	468	275	615	
110.0	737	730	644	440	235	575	
107.5	678	674	596	416	196	531	
105.0	611	613	538	391	158	482	250
102.5	513	542	475	361	122	424	
100.0	377	432	410	310	89	346	
97.5	232	286	310	248	59	247	
95.0	98	141	174	189	35	143	84
92.5	27	37	53	97	15	52	
90.0	0	0	0	0	0	0	

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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	.930	.930	.93	0.810	.810	.810	.81	0.700	.700	.700	.70	0.480	.480	.48	0.270	.270	.27	0.090	.090	.09	0.00				
	1	0.850	.810	.770	.75	0.740	.710	.680	.65	0.630	.600	.580	.55	0.410	.400	.39	0.240	.230	.22	0.080	.070	.07	0.00				
	2	0.770	.700	.650	.60	0.670	.610	.570	.53	0.570	.530	.490	.45	0.360	.340	.32	0.210	.200	.19	0.070	.060	.06	0.00				
	3	0.710	.620	.550	.50	0.610	.540	.480	.44	0.520	.460	.420	.38	0.320	.290	.27	0.180	.170	.16	0.060	.050	.05	0.00				
	4	0.640	.540	.470	.42	0.560	.480	.410	.37	0.480	.410	.360	.32	0.280	.250	.22	0.160	.150	.13	0.050	.050	.04	0.00				
	5	0.590	.460	.410	.35	0.510	.410	.360	.31	0.440	.360	.310	.27	0.250	.220	.19	0.140	.130	.11	0.050	.040	.04	0.00				
	6	0.540	.430	.350	.30	0.470	.370	.310	.27	0.400	.320	.270	.23	0.220	.190	.16	0.130	.110	.10	0.040	.040	.03	0.00				
	7	0.500	.380	.310	.26	0.430	.330	.270	.23	0.370	.290	.240	.20	0.200	.170	.14	0.120	.100	.08	0.040	.030	.03	0.00				
	8	0.460	.340	.270	.22	0.400	.300	.240	.20	0.340	.260	.210	.17	0.180	.150	.12	0.110	.090	.07	0.030	.030	.02	0.00				
	9	0.420	.310	.240	.19	0.370	.270	.210	.17	0.310	.230	.180	.15	0.160	.130	.11	0.090	.080	.06	0.030	.020	.02	0.00				
	10	0.390	.280	.210	.17	0.340	.250	.190	.15	0.290	.210	.170	.13	0.150	.120	.09	0.090	.070	.06	0.030	.020	.02	0.00				

LUMINAIRE INPUT WATTS = 58.3

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.