

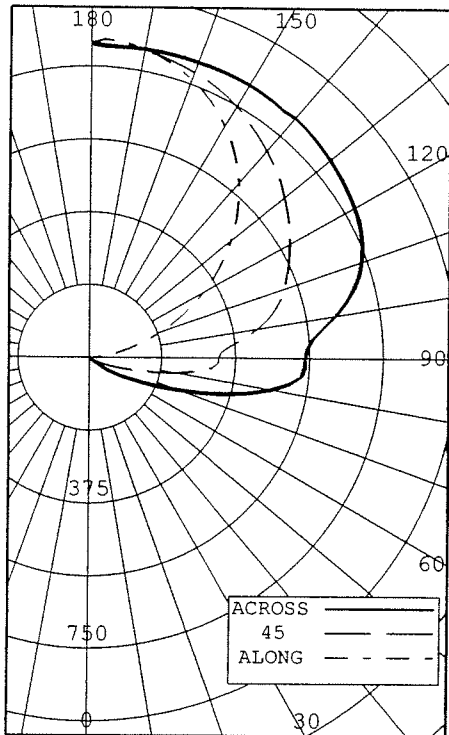


CERTIFIED TEST REPORT No. 25227

ELECTRIX INC - INDIRECT COVE LUMINAIRE, CAT# TXDS54UE46
WITH WHITE INTERIOR - 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 WATTS

INTENSITY (CANDLEPOWER) SUMMARY OUTPUT LUMENS

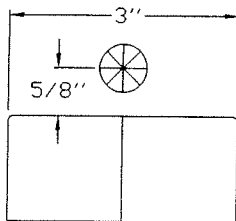
ANGLE	ALONG	22.5	45	67.5	ACROSS	LUMENS
0	0	0	0	0	0	
5	0	0	0	0	0	0
15	0	0	0	0	0	0
25	0	0	0	0	0	0
35	0	0	0	0	0	0
45	0	0	0	5	9	2
55	0	0	8	35	56	17
65	0	0	41	114	153	61
75	0	13	136	294	363	168
85	0	91	316	479	545	305
90	4	123	332	487	550	
95	31	170	365	511	573	374
105	131	274	492	638	698	478
115	267	370	560	703	763	531
125	407	472	618	737	789	543
135	534	572	676	765	806	517
145	644	663	724	781	810	453
155	730	736	768	796	812	354
165	787	783	793	802	808	224
175	818	809	807	803	803	78
180	809	809	809	809	809	



ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LAMP	% LUMINAIRE
0-30	0	0.00	0.00
0-40	0	0.00	0.00
0-60	20	0.44	0.48
0-90	553	12.29	13.47
40-90	553	12.29	13.47
60-90	534	11.86	12.99
90-180	3553	78.96	86.53
0-180	4106	91.25	100.00

** EFFICIENCY: 91.3% **



CERTIFIED BY:

Robert Trevino

DATE:

MAY 13, 2009

PREPARED FOR:

ELECTRIX INC
NEW HAVEN, CT

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

CERTIFIED TEST REPORT No. 25227

ELECTRIX INC - INDIRECT COVE LUMINAIRE, CAT# TXDS54UE46
 WITH WHITE INTERIOR - 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 WATTS

INTENSITY (CANDLEPOWER) DATA

ANGLE	PLANE						OUTPUT LUMENS
	ALONG	22.5	45	67.5	ACROSS	AVERAGE	
0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0
10	0	0	0	0	0	0	
15	0	0	0	0	0	0	0
20	0	0	0	0	0	0	
25	0	0	0	0	0	0	0
30	0	0	0	0	0	0	
35	0	0	0	0	0	0	0
40	0	0	0	0	2	0	
45	0	0	0	5	9	2	2
50	0	0	2	16	23	7	
55	0	0	8	35	56	18	17
60	0	0	20	69	96	34	
65	0	0	41	114	153	58	61
70	0	4	75	186	245	97	
75	0	13	136	294	363	156	168
80	0	36	231	402	472	226	
85	0	91	316	479	545	290	305
90	4	123	332	487	550	305	
95	31	170	365	511	573	337	374
100	73	229	437	582	638	401	
105	131	274	492	638	698	455	478
110	197	321	529	678	738	499	
115	267	370	560	703	763	537	531
120	338	420	589	722	778	572	
125	407	472	618	737	789	606	543
130	473	523	648	752	798	640	
135	534	572	676	765	806	671	517
140	592	617	700	773	810	698	
145	644	663	724	781	810	724	453
150	690	702	749	791	813	749	
155	730	736	768	796	812	768	354
160	762	761	781	799	810	782	
165	787	783	793	802	808	794	224
170	806	799	803	804	806	803	
175	818	809	807	803	803	807	78
180	809	809	809	809	809	809	

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ELECTRIX INC - INDIRECT COVE LUMINAIRE, CAT# TXDS54UE46
WITH WHITE INTERIOR - 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 WATTS

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	1.011	.011	.011	.01	0.900	.900	.900	.90	0.790	.790	.790	.79	0.580	.580	.58	0.380	.380	.38	0.210	.210	.21	0.12				
	1	0.890	.840	.790	.75	0.790	.740	.700	.66	0.680	.640	.610	.56	0.460	.430	.41	0.290	.280	.26	0.140	.130	.12	0.05				
	2	0.800	.710	.640	.58	0.710	.630	.570	.51	0.610	.550	.490	.44	0.390	.350	.32	0.240	.220	.20	0.110	.090	.08	0.02				
	3	0.730	.620	.540	.48	0.640	.550	.480	.42	0.550	.480	.420	.37	0.340	.300	.26	0.210	.180	.16	0.090	.070	.06	0.01				
	4	0.670	.550	.460	.40	0.580	.480	.410	.35	0.500	.420	.350	.30	0.300	.250	.22	0.180	.160	.13	0.080	.060	.05	0.00				
	5	0.610	.470	.400	.33	0.530	.420	.350	.29	0.460	.370	.300	.26	0.260	.220	.18	0.160	.130	.11	0.070	.050	.04	0.00				
	6	0.560	.430	.340	.28	0.490	.380	.300	.25	0.420	.330	.270	.22	0.230	.190	.16	0.150	.120	.09	0.060	.050	.03	0.00				
	7	0.510	.380	.300	.24	0.450	.340	.270	.22	0.390	.290	.230	.19	0.210	.170	.13	0.130	.100	.08	0.060	.040	.03	0.00				
	8	0.470	.350	.260	.21	0.420	.310	.230	.19	0.360	.260	.200	.16	0.190	.150	.12	0.120	.090	.07	0.050	.040	.03	0.00				
	9	0.440	.310	.230	.18	0.390	.280	.210	.16	0.330	.240	.180	.14	0.170	.130	.10	0.110	.080	.06	0.050	.030	.02	0.00				
	10	0.410	.280	.210	.16	0.360	.250	.190	.14	0.310	.220	.160	.13	0.160	.120	.09	0.100	.070	.05	0.040	.030	.02	0.00				

LUMINAIRE INPUT WATTS = 58.0

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.

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

CERTIFIED TEST REPORT No. 25236

ELECTRIX INC - INDIRECT COVE LUMINAIRE, CAT# MX40FM1E24
 WITH WHITE REFLECTOR AND NO LENS
 ONE OSRAM 40W BIAx LAMP, CAT# DULUX L 40W/4100K. LUMEN RATING = 3150 LMS.
 ONE ADVANCE ICN-2S39 BALLAST OPERATING AT 120 VAC AND 49 WATTS

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	0			
RCR	0	0.990	.990	.990	.99	0.880	.880	.880	.88	0.780	.780	.780	.78	0.590	.590	.59	0.420	.420	.42	0.260	.260	.26	0.19		
	1	0.880	.820	.770	.74	0.780	.730	.690	.65	0.690	.650	.610	.57	0.480	.460	.43	0.330	.310	.30	0.190	.180	.17	0.11		
	2	0.780	.700	.630	.57	0.700	.620	.560	.51	0.610	.550	.490	.45	0.400	.370	.33	0.270	.250	.23	0.150	.140	.12	0.07		
	3	0.710	.600	.520	.46	0.630	.540	.470	.41	0.550	.470	.410	.36	0.350	.300	.27	0.230	.200	.18	0.120	.110	.09	0.04		
	4	0.650	.530	.440	.38	0.570	.470	.400	.34	0.500	.410	.350	.30	0.300	.260	.22	0.200	.170	.15	0.110	.090	.07	0.03		
	5	0.590	.450	.380	.32	0.520	.410	.340	.28	0.450	.360	.300	.25	0.270	.220	.18	0.180	.140	.12	0.090	.070	.06	0.02		
	6	0.540	.410	.330	.27	0.480	.370	.290	.24	0.420	.320	.260	.21	0.240	.190	.16	0.160	.130	.10	0.080	.060	.05	0.02		
	7	0.490	.370	.280	.23	0.440	.330	.250	.20	0.380	.290	.220	.18	0.210	.160	.13	0.140	.110	.08	0.070	.050	.04	0.01		
	8	0.450	.330	.250	.20	0.400	.290	.220	.18	0.350	.260	.200	.16	0.190	.150	.11	0.130	.100	.07	0.070	.050	.03	0.01		
	9	0.420	.300	.220	.17	0.370	.270	.200	.15	0.330	.230	.180	.14	0.170	.130	.10	0.120	.090	.06	0.060	.040	.03	0.01		
	10	0.390	.270	.200	.15	0.350	.240	.180	.14	0.300	.210	.160	.12	0.160	.120	.09	0.110	.080	.06	0.060	.040	.03	0.01		

LUMINAIRE INPUT WATTS 49.0

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.