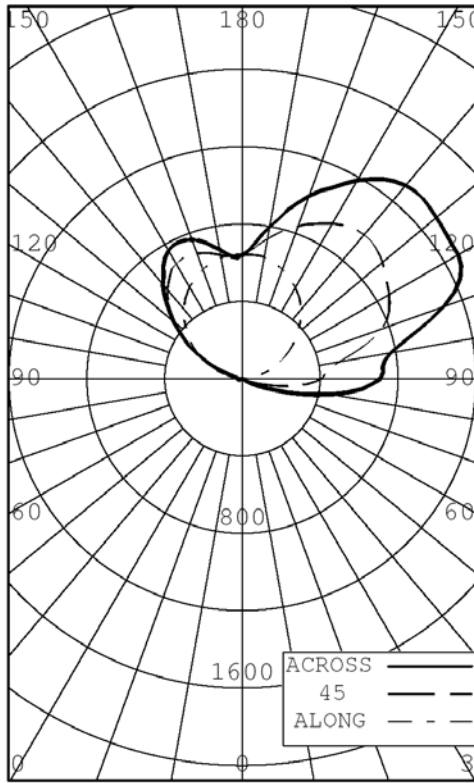




CERTIFIED TEST REPORT No. 27320

ELECTRIX - INDIRECT COVE LUNINAIRE, CAT# EX DS54UE46
WITH SPECULAR HAMMERTONE REFLECTOR AND WHITE PAINTED REFLECTOR
ONE GE 54 WATT T5 LAMP, CAT# F54W-T5/841/ECO. LUMEN RATING = 4450 LMS.
ONE LUTRON EC5T554JUNV2 BALLAST OPERATING AT 120 VAC AND 63.1 WATTS

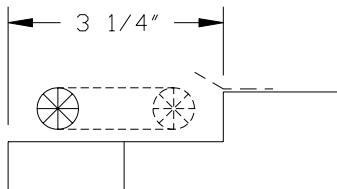


ANGLE	INTENSITY (CANDLEPOWER) SUMMARY				OUTPUT LUMENS
	ALONG	BEAM SIDE		ACROSS	
		67.5	45	22.5	
0	0	0	0	0	0
5	0	0	0	0	0
15	0	0	0	0	0
25	0	0	0	0	0
35	0	0	0	0	0
45	0	0	0	0	0
55	0	1	4	14	23
65	0	10	30	66	93
75	1	41	127	241	312
85	3	128	333	507	621
90	3	188	404	584	708
95	25	225	430	605	725
105	110	387	637	791	915
115	215	527	834	1072	1236
125	320	620	902	1128	1286
135	422	697	966	1174	1315
145	512	733	959	1139	1260
155	575	724	885	1010	1090
165	623	701	791	861	907
175	644	659	679	693	700
180	640	640	640	640	640

BOTH SIDES
ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LAMP	% LUMINAIRE
0-30	0	0.00	0.00
0-40	0	0.00	0.00
0-60	4	0.09	0.11
0-90	280	6.30	7.82
40-90	280	6.30	7.82
60-90	276	6.21	7.70
90-180	3307	74.32	92.18
0-180	3587	80.62	100.00

** EFFICIENCY: 80.6% **



CERTIFIED BY:

James E. Walker III

DATE:
JUL 12, 2010

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

ANGLE	PLANE					AVERAGE	OUTPUT LUMENS
	ALONG	67.5	45	22.5	ACROSS		
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	0	0	
45	0	0	0	0	0	0	0
50	0	0	0	2	5	1	
55	0	1	4	14	23	8	4
60	0	5	13	33	49	19	
65	0	10	30	66	93	38	21
70	0	21	64	129	175	75	
75	1	41	127	241	312	142	77
80	2	72	224	374	468	226	
85	3	128	333	507	621	320	171
90	3	188	404	584	708	383	
95	25	225	430	605	725	409	227
100	62	313	500	657	774	472	
105	110	387	637	791	915	582	308
110	162	458	763	960	1105	704	
115	215	527	834	1072	1236	790	387
120	267	578	871	1114	1281	834	
125	320	620	902	1128	1286	863	387
130	373	662	940	1152	1301	898	
135	422	697	966	1174	1315	926	357
140	469	722	973	1174	1306	939	
145	512	733	959	1139	1260	929	291
150	546	732	928	1081	1184	901	
155	575	724	885	1010	1090	863	200
160	602	716	840	941	1007	825	
165	623	701	791	861	907	779	111
170	640	682	734	771	798	727	
175	644	659	679	693	700	676	34
180	640	640	640	640	640	640	

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OPPOSITE SIDE TO BEAM
 INTENSITY (CANDLEPOWER) DATA

ANGLE	PLANE					AVERAGE	OUTPUT LUMENS
	ALONG	112.5	135	157.5	ACROSS		
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	0	0	
45	0	0	0	0	0	0	0
50	0	0	0	0	0	0	
55	0	0	0	0	0	0	0
60	0	0	0	0	0	0	
65	0	0	0	0	0	0	0
70	0	0	1	3	9	2	
75	1	2	4	8	19	6	3
80	2	3	5	10	21	7	
85	3	4	6	11	23	9	5
90	3	6	9	14	28	11	
95	25	15	15	20	30	19	12
100	62	51	32	30	33	40	
105	110	107	74	61	58	82	45
110	162	171	138	118	113	141	
115	215	244	216	197	194	215	106
120	267	318	293	284	285	293	
125	320	385	373	368	376	369	164
130	373	447	455	450	463	442	
135	422	500	534	534	550	514	197
140	469	540	600	615	639	577	
145	512	578	653	684	712	632	196
150	546	604	687	732	766	670	
155	575	619	698	747	782	686	158
160	602	629	692	736	767	685	
165	623	637	676	709	732	675	95
170	640	635	653	670	681	655	
175	644	637	638	636	637	638	31
180	640	640	640	640	640	640	

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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	0.890	.890	.890	.89	0.780	.780	.780	.78	0.680	.680	.680	.68	0.480	.480	.48	0.300	.300	.30	0.140	.140	.14	0.06			
	1	0.790	.750	.710	.68	0.700	.660	.620	.59	0.600	.570	.540	.50	0.400	.380	.36	0.240	.230	.22	0.100	.090	.09	0.02			
	2	0.720	.640	.580	.53	0.630	.560	.510	.47	0.540	.490	.440	.41	0.340	.310	.29	0.200	.190	.17	0.080	.070	.06	0.01			
	3	0.650	.560	.490	.44	0.570	.490	.440	.39	0.490	.430	.380	.34	0.300	.260	.24	0.180	.160	.14	0.070	.060	.05	0.00			
	4	0.600	.490	.420	.37	0.520	.430	.370	.32	0.450	.380	.320	.28	0.260	.230	.20	0.160	.140	.12	0.060	.050	.04	0.00			
	5	0.540	.420	.360	.31	0.480	.380	.320	.27	0.410	.330	.280	.24	0.230	.200	.17	0.140	.120	.10	0.050	.040	.04	0.00			
	6	0.500	.390	.320	.26	0.440	.340	.280	.23	0.370	.300	.240	.20	0.210	.170	.15	0.130	.100	.09	0.050	.040	.03	0.00			
	7	0.460	.350	.280	.23	0.400	.310	.240	.20	0.340	.260	.210	.18	0.190	.150	.12	0.110	.090	.07	0.040	.030	.03	0.00			
	8	0.420	.310	.240	.20	0.370	.280	.220	.17	0.320	.240	.190	.15	0.170	.130	.11	0.100	.080	.06	0.040	.030	.02	0.00			
	9	0.390	.280	.210	.17	0.340	.250	.190	.15	0.290	.220	.170	.13	0.150	.120	.09	0.090	.070	.06	0.040	.030	.02	0.00			
	10	0.360	.260	.190	.15	0.320	.230	.170	.13	0.270	.200	.150	.12	0.140	.110	.08	0.090	.060	.05	0.030	.020	.02	0.00			

LUMINAIRE INPUT WATTS 63.1

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.