



UL Verification Services Inc.
7036 Snowdrift Road
Allentown, PA 18106
610-774-1300

Photometric Indoor Test Report

Relevant Standards
IES LM-79-2008
ANSI C82.77-2002

Prepared For
Renova Lighting Systems Inc.
Rick Edwards
20 Middlesex Rd.
Mansfield, MA 02048-1828
United States

Catalog Number
GLT2-V5-5K-CA(2)
Project Number
10516125
Test Number
775759

Test Date

2014-10-03

Prepared By

Derek Smarr

Derek Smarr, Technician

Approved By

Jeff A. Smith Jr.

Jeff Smith Jr., Project Handler

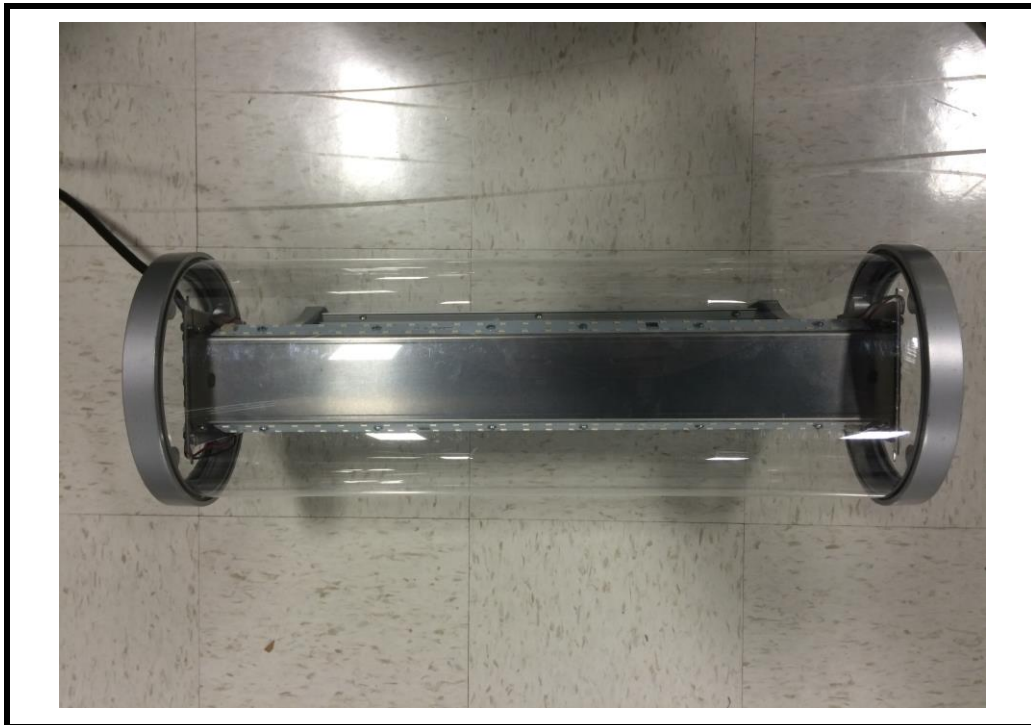
The results contained in this report pertain only to the tested sample.
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Luminaire Description: Cast and extruded aluminum housing, semi specular reflector, clear plastic enclosure
Catalog Number: GLT2-V5-5K-CA(2)
Lamp: 196 white LEDs
Mounting: Surface
Ballast/Driver: One Philips Advance XIO75C200V054

Luminaire

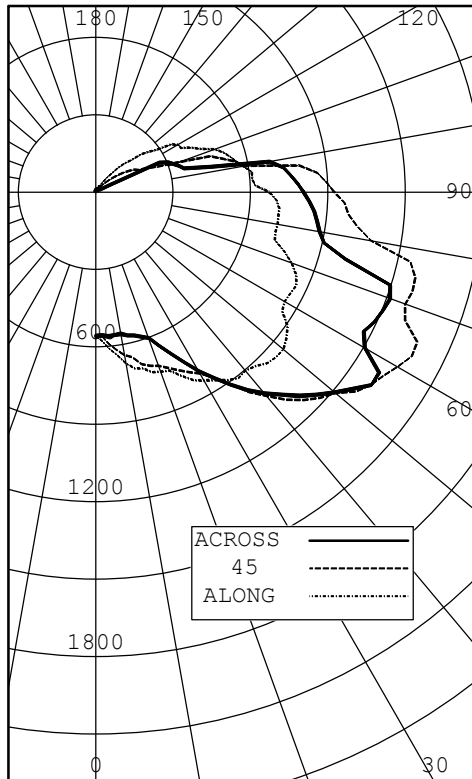


Test Conditions

Test Temperature:	24.7 °C
Voltage:	120.0 VAC
Current:	0.6613 A
Power:	78.97 W
Power Factor:	0.996
Frequency:	60 Hz
Current THD:	9.09 %



INTENSITY (CANDLEPOWER) SUMMARY OUTPUT LUMENS



ANGLE	ALONG	22.5	45	67.5	ACROSS	OUTPUT LUMENS
0	559	559	559	559	559	
5	609	610	591	562	562	59
15	708	714	692	639	576	191
25	787	770	763	752	693	354
35	892	894	910	969	913	580
45	939	990	1141	1176	1118	836
55	908	1051	1302	1361	1305	1072
65	858	1082	1374	1291	1192	1175
75	718	1006	1282	1197	1001	1139
85	715	871	983	937	850	976
90	673	792	924	868	806	
95	609	688	863	822	759	823
105	537	524	505	398	355	510
115	409	372	221	159	273	272
125	287	239	133	29	23	129
135	160	118	52	23	15	57
145	50	33	23	20	14	18
155	24	19	17	12	10	8
165	13	12	10	9	9	3
175	10	10	10	8	6	1
180	9	9	9	9	9	

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	604	7.36
0-40	1183	14.43
0-60	3091	37.69
0-90	6380	77.80
40-90	5197	63.38
60-90	3289	40.11
90-180	1820	22.20
0-180	8201	100.00

EFFICACY (LUMENS PER WATT): 103.8

*** THIS IS AN ABSOLUTE TEST ***

LUMINOUS LENGTH: 28.000 INS
 WIDTH: 9.000 INS

LUMINANCE SUMMARY CD./SQ.M.

S/MH: 2.6
 SC (ALONG): 2.2, SC (ACROSS): 2.6

ANGLE	ALONG	45	ACROSS
45	6578	5854	5578
55	7246	7003	6782
65	8226	8012	6675
75	8979	8435	6288
85	13438	7720	6290

TESTED IN ACCORDANCE WITH IES PROCEDURES.



INTENSITY (CANDLEPOWER) DATA

ANGLE	PLANE						OUTPUT LUMENS
	ALONG	22.5	45	67.5	ACROSS	AVERAGE	
0	559	559	559	559	559	559	
5	609	610	591	562	562	587	59
10	675	669	641	600	558	631	
15	708	714	692	639	576	672	191
20	742	749	717	674	603	703	
25	787	770	763	752	693	756	354
30	844	836	813	867	803	835	
35	892	894	910	969	913	919	580
40	905	915	1032	1081	1020	998	
45	939	990	1141	1176	1118	1084	836
50	949	1043	1212	1274	1210	1152	
55	908	1051	1302	1361	1305	1205	1072
60	846	1056	1353	1392	1203	1206	
65	858	1082	1374	1291	1192	1193	1175
70	809	1060	1275	1304	1212	1162	
75	718	1006	1282	1197	1001	1086	1139
80	716	947	1084	996	881	956	
85	715	871	983	937	850	893	976
90	673	792	924	868	806	831	
95	609	688	863	822	759	764	823
100	579	629	587	686	685	633	
105	537	524	505	398	355	468	510
110	488	434	334	342	320	378	
115	409	372	221	159	273	273	272
120	369	319	174	40	24	182	
125	287	239	133	29	23	139	129
130	231	186	92	25	17	107	
135	160	118	52	23	15	70	57
140	98	65	33	21	14	44	
145	50	33	23	20	14	27	18
150	29	23	21	14	14	20	
155	24	19	17	12	10	16	8
160	19	16	14	11	10	14	
165	13	12	10	9	9	10	3
170	11	10	9	8	8	9	
175	10	10	10	8	6	9	1
180	9	9	9	9	9	9	



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	1.191	1.191	1.191	1.19	1.141	1.141	1.141	1.14	1.091	1.091	1.091	1.09	0.990	0.990	0.99	0.900	0.900	0.90	0.820	0.820	0.82	0.78				
1	1.040	0.960	0.890	0.83	0.980	0.910	0.850	0.79	0.930	0.870	0.810	0.76	0.780	0.740	0.70	0.700	0.670	0.63	0.630	0.600	0.58	0.54				
2	0.920	0.800	0.700	0.62	0.870	0.760	0.670	0.60	0.820	0.720	0.640	0.57	0.650	0.580	0.52	0.580	0.530	0.48	0.520	0.470	0.43	0.40				
3	0.820	0.680	0.570	0.48	0.770	0.640	0.540	0.46	0.730	0.610	0.520	0.44	0.550	0.470	0.41	0.490	0.420	0.37	0.430	0.380	0.34	0.30				
4	0.740	0.590	0.470	0.39	0.700	0.560	0.450	0.38	0.660	0.530	0.440	0.36	0.470	0.390	0.33	0.420	0.360	0.30	0.380	0.320	0.27	0.24				
5	0.670	0.510	0.400	0.32	0.630	0.480	0.380	0.30	0.590	0.460	0.360	0.29	0.410	0.330	0.27	0.370	0.300	0.24	0.330	0.270	0.22	0.19				
6	0.610	0.450	0.340	0.26	0.580	0.420	0.320	0.25	0.540	0.400	0.310	0.24	0.360	0.280	0.22	0.320	0.250	0.20	0.290	0.230	0.18	0.15				
7	0.560	0.390	0.290	0.22	0.520	0.370	0.280	0.21	0.490	0.350	0.260	0.20	0.320	0.240	0.18	0.280	0.210	0.16	0.250	0.190	0.15	0.12				
8	0.510	0.350	0.250	0.18	0.480	0.330	0.240	0.18	0.460	0.320	0.230	0.17	0.280	0.210	0.15	0.260	0.190	0.14	0.230	0.170	0.12	0.10				
9	0.470	0.320	0.220	0.15	0.450	0.300	0.210	0.15	0.420	0.290	0.200	0.14	0.260	0.180	0.13	0.230	0.160	0.12	0.200	0.150	0.10	0.08				
10	0.430	0.290	0.190	0.13	0.410	0.270	0.180	0.13	0.390	0.260	0.180	0.12	0.230	0.160	0.11	0.210	0.140	0.10	0.190	0.130	0.09	0.07				

THE ABOVE COEFFICIENTS HAVE BEEN CALCULATED BASED ON LUMINAIRE LUMENS
 BECAUSE IN AN ABSOLUTE TEST THE BARE LAMP LUMENS ARE UNKNOWN.
 LIGHTING DESIGN CALCULATIONS MADE USING THESE COEFFICIENTS SHOULD
 THEREFORE USE THE LUMINAIRE LUMENS IN THE CALCULATION FORMULA

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.