



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-FA(2)
Project Number
10516125
Test Number
775758

Test Date

2014-10-02

Prepared By

Javier Caban

Javier Caban, 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, frosted plastic enclosure
Catalog Number: GLT2-V5-5K-FA(2)
Lamp: 196 white LEDs
Mounting: Surface
Ballast/Driver: One Philips Advance XIO75C200V054

Luminaire

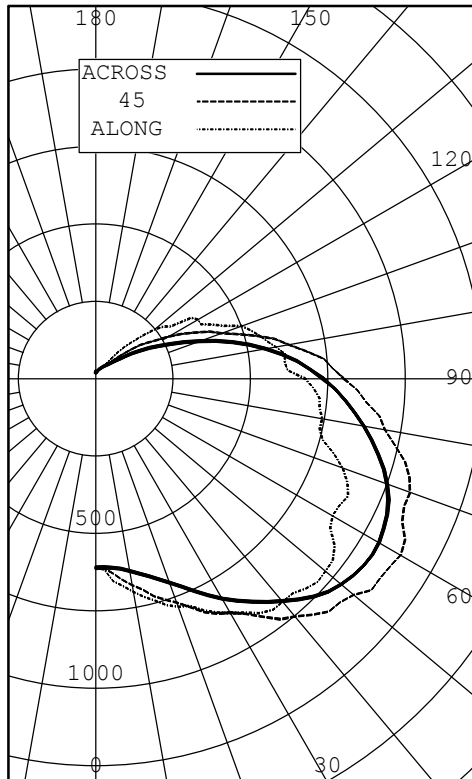


Test Conditions

Test Temperature:	25.2 °C
Voltage:	120.0 VAC
Current:	0.6610 A
Power:	78.89 W
Power Factor:	0.996
Frequency:	60 Hz
Current THD:	9.11 %



INTENSITY (CANDLEPOWER) SUMMARY OUTPUT LUMENS



ANGLE	ALONG	22.5	45	67.5	ACROSS	OUTPUT LUMENS
0	611	611	611	611	611	
5	658	652	632	616	614	63
15	744	737	729	699	661	205
25	826	826	833	803	758	379
35	926	947	939	939	881	585
45	960	1022	1065	1057	996	792
55	941	1004	1123	1134	1056	952
65	899	975	1092	1139	1039	1032
75	757	862	1035	1052	945	1005
85	726	811	878	888	810	908
90	676	742	801	801	734	
95	615	687	740	712	653	753
105	546	584	537	477	459	554
115	416	427	355	267	266	348
125	294	281	203	134	144	194
135	172	156	97	78	76	89
145	64	51	52	53	52	36
155	40	35	39	38	38	18
165	26	26	26	27	29	8
175	23	23	22	21	21	2
180	23	23	23	23	23	

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	646	8.16
0-40	1231	15.55
0-60	2975	37.56
0-90	5920	74.74
40-90	4689	59.20
60-90	2945	37.18
90-180	2001	25.26
0-180	7921	100.00

EFFICACY (LUMENS PER WATT): 100.4

*** THIS IS AN ABSOLUTE TEST ***

LUMINOUS LENGTH: 28.000 INS
 WIDTH: 9.000 INS

LUMINANCE SUMMARY CD./SQ.M.

S/MH: 2.2
 SC: 2.2

ANGLE	ALONG	45	ACROSS
45	8354	6076	4970
55	10094	6875	5486
65	13083	7458	5818
75	17986	8263	5934
85	51249	8799	5990

TESTED IN ACCORDANCE WITH IES PROCEDURES.



INTENSITY (CANDLEPOWER) DATA

ANGLE	PLANE						OUTPUT LUMENS
	ALONG	22.5	45	67.5	ACROSS	AVERAGE	
0	611	611	611	611	611	611	
5	658	652	632	616	614	634	63
10	699	693	677	651	631	671	
15	744	737	729	699	661	717	205
20	785	796	770	745	703	764	
25	826	826	833	803	758	813	379
30	876	887	874	875	821	871	
35	926	947	939	939	881	932	585
40	941	959	1004	1007	939	978	
45	960	1022	1065	1057	996	1031	792
50	969	1025	1087	1100	1034	1053	
55	941	1004	1123	1134	1056	1065	952
60	884	987	1138	1151	1057	1062	
65	899	975	1092	1139	1039	1044	1032
70	850	940	1079	1109	1002	1013	
75	757	862	1035	1052	945	950	1005
80	743	839	948	972	878	892	
85	726	811	878	888	810	836	908
90	676	742	801	801	734	762	
95	615	687	740	712	653	693	753
100	592	642	634	599	559	612	
105	546	584	537	477	459	525	554
110	501	487	432	370	357	429	
115	416	427	355	267	266	347	348
120	383	358	271	189	199	277	
125	294	281	203	134	144	209	194
130	249	221	146	99	102	160	
135	172	156	97	78	76	114	89
140	114	90	66	64	61	77	
145	64	51	52	53	52	54	36
150	45	40	46	45	44	44	
155	40	35	39	38	38	38	18
160	33	31	32	33	34	32	
165	26	26	26	27	29	27	8
170	23	23	23	24	24	23	
175	23	23	22	21	21	22	2
180	23	23	23	23	23	23	



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	1.131	1.131	1.131	1.13	1.071	1.071	1.071	1.07	0.970	0.970	0.97	0.880	0.880	0.88	0.790	0.790	0.79	0.75				
1	1.040	0.960	0.890	0.84	0.980	0.910	0.850	0.80	0.920	0.870	0.810	0.76	0.770	0.730	0.69	0.690	0.660	0.62	0.610	0.590	0.56	0.52				
2	0.920	0.810	0.710	0.63	0.870	0.770	0.680	0.60	0.820	0.720	0.640	0.58	0.640	0.580	0.52	0.570	0.520	0.48	0.510	0.460	0.43	0.39				
3	0.830	0.690	0.580	0.50	0.780	0.650	0.550	0.48	0.730	0.610	0.530	0.45	0.550	0.470	0.41	0.480	0.430	0.37	0.430	0.380	0.34	0.30				
4	0.750	0.600	0.490	0.41	0.710	0.570	0.470	0.39	0.660	0.540	0.440	0.37	0.480	0.400	0.34	0.420	0.360	0.31	0.370	0.320	0.28	0.24				
5	0.680	0.520	0.410	0.33	0.640	0.490	0.390	0.32	0.600	0.470	0.370	0.30	0.420	0.340	0.28	0.370	0.300	0.25	0.320	0.270	0.23	0.20				
6	0.620	0.460	0.350	0.28	0.580	0.430	0.340	0.27	0.540	0.410	0.320	0.25	0.370	0.290	0.23	0.320	0.260	0.21	0.290	0.230	0.19	0.16				
7	0.560	0.400	0.300	0.23	0.530	0.380	0.290	0.22	0.500	0.360	0.270	0.21	0.320	0.250	0.19	0.290	0.220	0.17	0.250	0.200	0.15	0.13				
8	0.520	0.360	0.270	0.20	0.490	0.340	0.250	0.19	0.460	0.320	0.240	0.18	0.290	0.220	0.16	0.260	0.190	0.15	0.230	0.170	0.13	0.11				
9	0.480	0.330	0.230	0.17	0.450	0.310	0.220	0.16	0.420	0.290	0.210	0.15	0.260	0.190	0.14	0.230	0.170	0.13	0.210	0.150	0.11	0.09				
10	0.440	0.300	0.200	0.15	0.420	0.280	0.190	0.14	0.400	0.260	0.190	0.13	0.240	0.170	0.12	0.210	0.150	0.11	0.190	0.130	0.09	0.08				

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.