



7036 Snowdrift Road Suite 200
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

Catalog Number
GLT2-V2-5K
Project Number
10243387
Test Number
514180

Test Date

2014-03-05

Prepared By

Handwritten signature of Eric M. Gaudreau in black ink.

Eric Gaudreau, Engineering Project Handler

Approved By

Handwritten signature of Jeff A. Smith Jr. in black ink.

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, specular reflectors, clear plastic enclosure
Catalog Number: GLT2-V2-5K
Lamp: 48 white LEDs
Mounting: Surface
Ballast/Driver: One Mean Well HLG-100H-48A

Luminaire

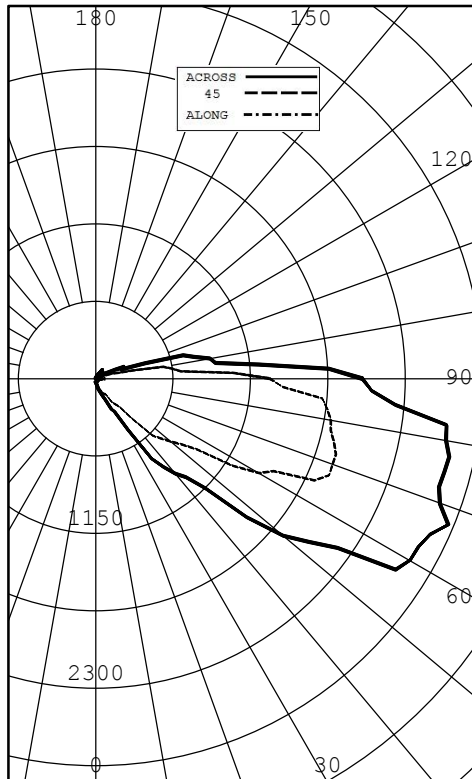


Test Conditions

Test Temperature:	24.9 °C
Voltage:	120.0 VAC
Current:	0.8362 A
Power:	99.78 W
Power Factor:	0.994
Frequency:	60 Hz
Current THD:	7.91 %



INTENSITY (CANDLEPOWER) SUMMARY OUTPUT
 LUMENS



ANGLE	ALONG	22.5	45	67.5	ACROSS	OUTPUT LUMENS
0	31	31	31	31	31	
5	35	34	34	31	28	3
15	34	36	43	68	83	16
25	32	43	97	146	177	51
35	31	71	219	481	729	181
45	29	105	602	1006	1153	460
55	28	216	917	1936	2197	977
65	31	479	1793	2587	2740	1534
75	28	848	1834	2508	2681	1733
85	53	822	1690	2122	2236	1562
90	25	657	1293	1834	1981	
95	22	288	637	1086	1217	813
105	45	48	172	539	673	288
115	23	45	54	113	160	80
125	12	52	20	33	48	32
135	9	39	81	17	14	25
145	8	22	43	68	88	26
155	7	19	29	38	40	13
165	8	11	23	23	22	5
175	7	6	4	3	2	1
180	4	4	4	4	4	

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	70	0.89
0-40	251	3.22
0-60	1688	21.64
0-90	6517	83.56
40-90	6266	80.34
60-90	4829	61.92
90-180	1282	16.44
0-180	7800	100.00

EFFICACY (LUMENS PER WATT): 78.2

*** THIS IS AN ABSOLUTE TEST ***

LUMINOUS LENGTH: 27.000 INS
 WIDTH: 8.500 INS

LUMINANCE SUMMARY CD./SQ.M.

SC (ALONG): 1.5

ANGLE	ALONG	45	ACROSS
45	277	3747	6261
55	332	6117	12409
65	492	13312	16648
75	722	15875	18220
85	4134	18297	17854

TESTED IN ACCORDANCE WITH IES PROCEDURES.



INTENSITY (CANDLEPOWER) DATA

ANGLE	PLANE					AVERAGE	OUTPUT LUMENS
	ALONG	22.5	45	67.5	ACROSS		
0	31	31	31	31	31	31	
5	35	34	34	31	28	33	3
10	34	35	36	38	40	37	
15	34	36	43	68	83	51	16
20	33	38	75	105	122	74	
25	32	43	97	146	177	98	51
30	32	47	137	265	287	152	
35	31	71	219	481	729	288	181
40	30	78	272	820	923	412	
45	29	105	602	1006	1153	576	460
50	28	105	725	1521	1820	819	
55	28	216	917	1936	2197	1045	977
60	28	337	1403	2528	2696	1408	
65	31	479	1793	2587	2740	1561	1534
70	27	678	1872	2601	2719	1631	
75	28	848	1834	2508	2681	1636	1733
80	40	891	1774	2477	2641	1620	
85	53	822	1690	2122	2236	1445	1562
90	25	657	1293	1834	1981	1197	
95	22	288	637	1086	1217	657	813
100	44	98	512	784	864	462	
105	45	48	172	539	673	279	288
110	32	32	76	236	207	116	
115	23	45	54	113	160	76	80
120	19	66	23	60	79	49	
125	12	52	20	33	48	34	32
130	14	37	33	16	18	26	
135	9	39	81	17	14	37	25
140	8	28	54	45	28	36	
145	8	22	43	68	88	45	26
150	7	21	35	50	54	34	
155	7	19	29	38	40	27	13
160	7	14	24	30	31	22	
165	8	11	23	23	22	18	5
170	8	6	12	13	12	10	
175	7	6	4	3	2	5	1
180	4	4	4	4	4	4	



COEFFICIENTS OF UTILIZATION

ZONAL CAVITY METHOD

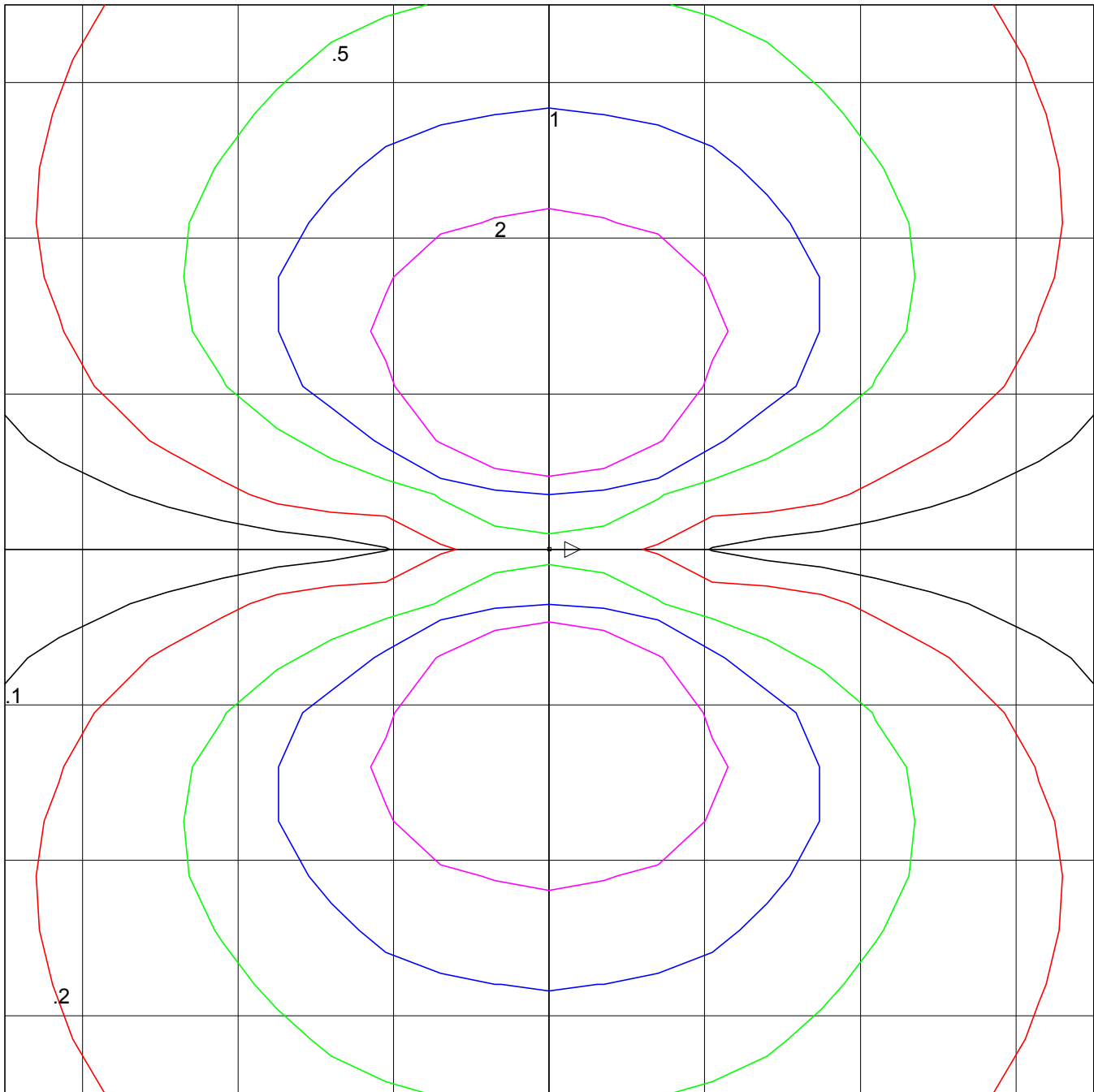
EFFECTIVE FLOOR CAVITY REFLECTANCE = .20

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	50	30	10	50	30	10																																																																																																																																																																																																																																
RCR	0	1.201	.201	.201	.20	1.151	.151	.151	.15	1.111	.111	.111	.11	1.021	.021	.021	.02	0.940	.940	.94	0.870	.870	.87	0.84	1	1.000	.900	.810	.73	0.950	.860	.780	.70	0.900	.820	.740	.67	0.740	.680	.62	0.670	.620	.57	0.600	.560	.53	0.49	2	0.860	.710	.590	.49	0.810	.680	.570	.47	0.770	.640	.540	.45	0.570	.490	.41	0.510	.440	.38	0.460	.400	.34	0.31	3	0.750	.580	.450	.35	0.710	.550	.430	.33	0.660	.520	.410	.31	0.460	.370	.29	0.410	.330	.26	0.360	.290	.23	0.20	4	0.670	.490	.360	.26	0.630	.460	.340	.25	0.590	.440	.330	.24	0.390	.290	.22	0.340	.260	.19	0.300	.230	.17	0.14	5	0.600	.410	.290	.19	0.570	.390	.270	.18	0.530	.370	.260	.18	0.330	.230	.16	0.290	.200	.14	0.250	.180	.12	0.09	6	0.550	.360	.240	.15	0.510	.340	.220	.14	0.480	.320	.210	.13	0.280	.190	.12	0.250	.170	.10	0.220	.140	.09	0.06	7	0.490	.310	.200	.12	0.460	.300	.190	.11	0.440	.280	.180	.10	0.250	.150	.09	0.220	.140	.08	0.190	.120	.06	0.04	8	0.450	.280	.170	.10	0.430	.260	.160	.09	0.400	.250	.150	.08	0.220	.140	.07	0.200	.120	.06	0.170	.100	.05	0.03	9	0.420	.250	.150	.08	0.400	.240	.140	.07	0.370	.230	.130	.07	0.200	.120	.06	0.180	.100	.05	0.160	.090	.04	0.02	10	0.390	.230	.130	.07	0.370	.220	.120	.06	0.350	.200	.120	.06	0.180	.100	.05	0.160	.090	.04	0.140	.080	.03	0.01

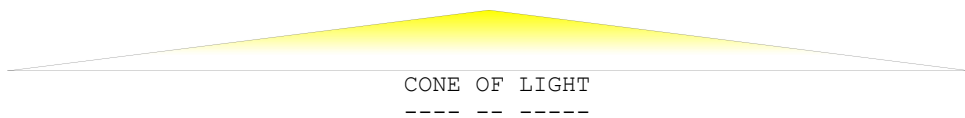
THE ABOVE COEFFICIENTS HAVE BEEN CALCULATED BASED ON LUMINAIRE LUMENS
 BECAUSE IN AN ABSOLUTE TEST THE BARE LAMP LUMENS ARE UNKNOWN.
 LIGHTING DESIGN CALCULATIONS MADE USING THESE COEFFICIENTS SHOULD
 THEREFORE USE THE LUMINAIRE LUMENS IN THE CALCULATION FORMULA

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.



Horizontal Footcandles
Scale: 1 Inch = 10 Ft.
Mounting Height = 10.00 Ft.
Maximum Calculated Value = 4.46 Fc



MOUNTING HEIGHT ABOVE WORK PLANE (FT)	INITIAL FC AT NADIR -FCN (FC)	.1*FCN (FC)	10% LIGHTED DIAMETER (FT)	.5*FCN (FC)	50% LIGHTED DIAMETER (FT)
1	31.0	3.1	16.1	15.5	9.3
2	7.8	0.8	32.3	3.9	18.6
3	3.4	0.3	48.4	1.7	28.0
4	1.9	0.2	64.5	1.0	37.3
5	1.2	0.1	80.6	0.6	46.6
6	0.9	0.1	96.8	0.4	55.9
7	0.6	0.1	112.9	0.3	65.3
8	0.5	0.0	129.0	0.2	74.6

10% CONE ANGLE: 165.9 DEGREES
 50% CONE ANGLE: 155.8 DEGREES