



UL Verification Services Inc.
7826 East Evans Road
Scottsdale, AZ 85260
480-991-9260

Photometric Indoor Test Report

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

Prepared For
Solavanti Lighting LLC
9659 Wendell Rd.
Dallas, TX. 75243

Catalog Number
S3-SS-1-**-NR-ST-1-3-2-1-4
Project Number
10712772
Test Number
33823

Test Date

2015-03-19

Prepared By

Handwritten signature of Dennis Boyles in black ink.

Dennis Boyles, Technician

Approved By

Handwritten signature of Jim Domigan in black ink.

Jim Domigan, Laboratory Team Leader

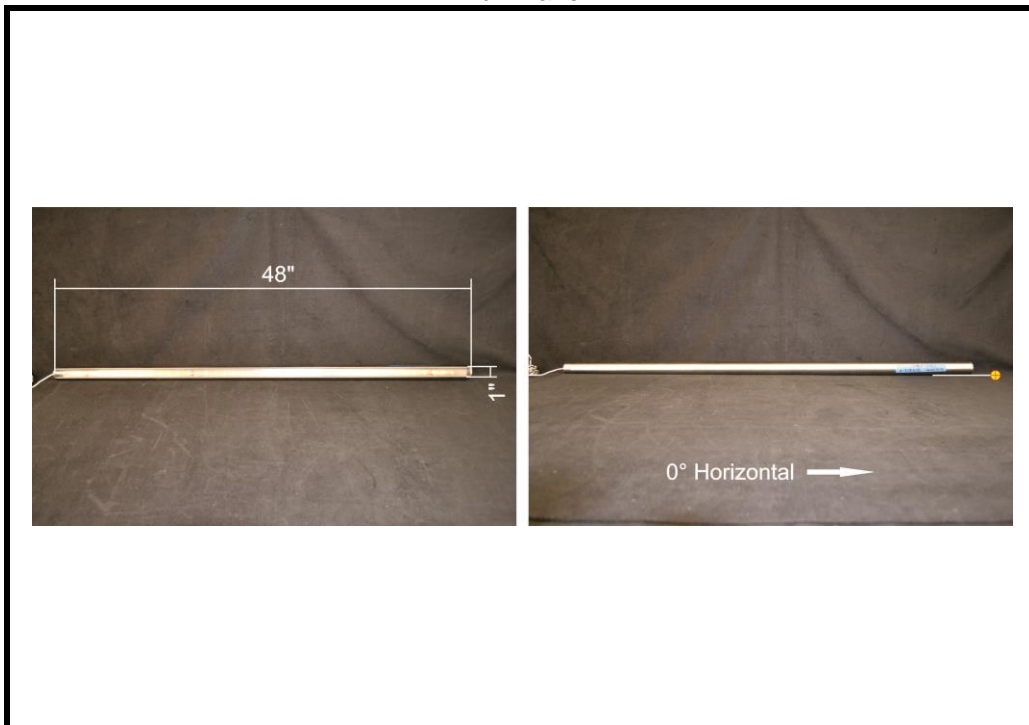
The results contained in this report pertain only to the tested sample.
This report shall not be reproduced, except in full, without written approval of Underwriters Laboratories.



UL Verification Services Inc.
7826 East Evans Road
Scottsdale, AZ 85260
480-991-9260

Luminaire Description: Medium output standard dist. Stainless steel housing, plastic textured lens
Catalog Number: S3-SS-1-**-NR-ST-1-3-2-1-4
Lamp: 42 LEDs
Ballast/Driver: One ACLED AC-A100VD24H4.1 LED Driver

Luminaire

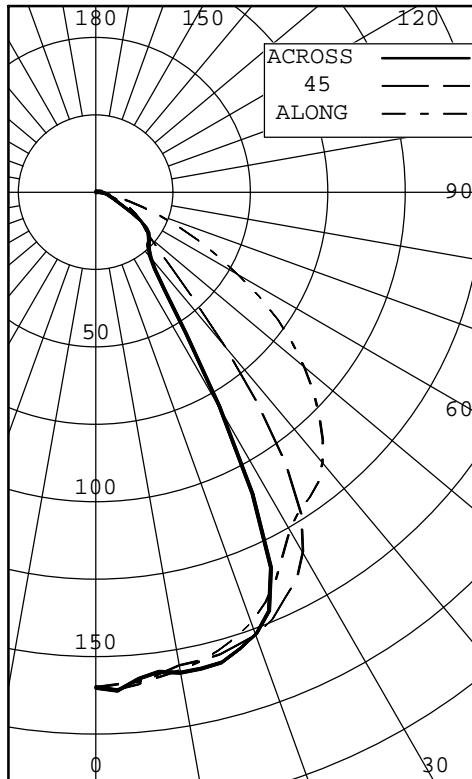


Test Conditions

Test Temperature:	25.6 °C
Voltage:	120.0 VAC
Current:	0.1256 A
Power:	14.40 W
Power Factor:	0.952
Frequency:	60 Hz
Current THD:	12.6 %



INTENSITY (CANDLEPOWER) SUMMARY OUTPUT LUMENS



ANGLE	ALONG	22.5	45	67.5	ACROSS	OUTPUT LUMENS
0	160	160	160	160	160	
5	159	159	160	158	158	15
15	153	151	155	157	157	43
25	138	140	145	142	134	63
35	120	119	107	52	39	56
45	102	100	35	24	24	43
55	72	54	19	19	20	31
65	37	18	12	10	9	16
75	11	7	5	5	5	7
85	2	2	3	3	3	3
90	0	1	2	2	2	
95	0	0	1	1	1	1
105	0	0	0	0	0	0
115	0	0	0	0	0	0
125	0	0	0	0	0	0
135	0	0	0	0	0	0
145	0	0	0	0	0	0
155	0	0	0	0	0	0
165	0	0	0	0	0	0
175	0	0	0	0	0	0
180	0	0	0	0	0	0

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	122	43.74
0-40	178	63.99
0-60	252	90.46
0-90	277	99.54
40-90	99	35.56
60-90	25	9.09
90-180	1	0.46
0-180	279	100.00

EFFICACY (LUMENS PER WATT): 19.3

*** THIS IS AN ABSOLUTE TEST ***

LUMINOUS LENGTH: 48.000 INS
 WIDTH: 1.000 INS

LUMINANCE SUMMARY CD./SQ.M.

S/MH: 1.0
 SC(ALONG): 1.2, SC(ACROSS): 1.0

ANGLE	ALONG	45	ACROSS
45	4664	1597	1102
55	4047	1059	1124
65	2788	954	663
75	1409	674	569
85	592	965	1041

TESTED IN ACCORDANCE WITH IES PROCEDURES.



INTENSITY (CANDLEPOWER) DATA

ANGLE	PLANE						OUTPUT LUMENS
	ALONG	22.5	45	67.5	ACROSS	AVERAGE	
0	160	160	160	160	160	160	
5	159	159	160	158	158	159	15
10	157	156	155	157	158	156	
15	153	151	155	157	157	154	43
20	148	146	152	151	152	150	
25	138	140	145	142	134	141	63
30	126	128	134	102	80	117	
35	120	119	107	52	39	89	56
40	114	113	65	30	28	70	
45	102	100	35	24	24	55	43
50	88	79	23	22	22	45	
55	72	54	19	19	20	34	31
60	53	31	16	15	14	24	
65	37	18	12	10	9	16	16
70	22	11	9	6	6	10	
75	11	7	5	5	5	6	7
80	5	4	4	4	4	4	
85	2	2	3	3	3	2	3
90	0	1	2	2	2	1	
95	0	0	1	1	1	1	1
100	0	0	0	1	1	0	
105	0	0	0	0	0	0	0
110	0	0	0	0	0	0	
115	0	0	0	0	0	0	0
120	0	0	0	0	0	0	
125	0	0	0	0	0	0	0
130	0	0	0	0	0	0	
135	0	0	0	0	0	0	0
140	0	0	0	0	0	0	
145	0	0	0	0	0	0	0
150	0	0	0	0	0	0	
155	0	0	0	0	0	0	0
160	0	0	0	0	0	0	
165	0	0	0	0	0	0	0
170	0	0	0	0	0	0	
175	0	0	0	0	0	0	0
180	0	0	0	0	0	0	



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	1.221	.221	.221	.22	1.191	.191	.191	.19	1.161	.161	.161	.16	1.111	.111	.111	.11	1.061	.061	.06	1.021	.021	.02	1.00	
	1	1.141	.101	.071	.04	1.121	.081	.051	.02	1.091	.061	.031	.00	1.010	.990	.97	0.980	.960	.94	0.940	.930	.91	0.89		
	2	1.071	.010	.950	.90	1.040	.990	.940	.89	1.020	.970	.920	.88	0.930	.900	.86	0.900	.870	.84	0.870	.850	.82	0.81		
	3	1.000	.910	.850	.80	0.980	.900	.840	.79	0.960	.880	.830	.78	0.860	.810	.77	0.830	.790	.76	0.810	.770	.74	0.73		
	4	0.940	.840	.770	.71	0.920	.830	.760	.71	0.900	.810	.750	.70	0.790	.740	.69	0.770	.720	.69	0.750	.710	.68	0.66		
	5	0.880	.770	.690	.64	0.860	.760	.690	.63	0.840	.750	.680	.63	0.730	.670	.63	0.710	.660	.62	0.690	.650	.61	0.60		
	6	0.820	.710	.630	.58	0.800	.700	.620	.57	0.790	.690	.620	.57	0.670	.610	.57	0.650	.600	.56	0.640	.590	.56	0.54		
	7	0.760	.640	.570	.52	0.750	.640	.570	.52	0.740	.630	.560	.51	0.620	.550	.51	0.600	.550	.50	0.590	.540	.50	0.49		
	8	0.720	.600	.520	.47	0.700	.590	.520	.47	0.690	.580	.510	.47	0.570	.510	.46	0.560	.500	.46	0.550	.500	.46	0.44		
	9	0.670	.550	.480	.42	0.660	.540	.470	.42	0.650	.540	.470	.42	0.530	.460	.42	0.520	.460	.42	0.510	.450	.42	0.40		
	10	0.630	.510	.430	.39	0.620	.500	.430	.39	0.610	.500	.430	.39	0.490	.430	.39	0.480	.420	.38	0.470	.420	.38	0.37		

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.



** ILLUMINANCE(FOOTCANDLE) TABLE FOR SINGLE LUMINAIRE AT 3.0 FT. **

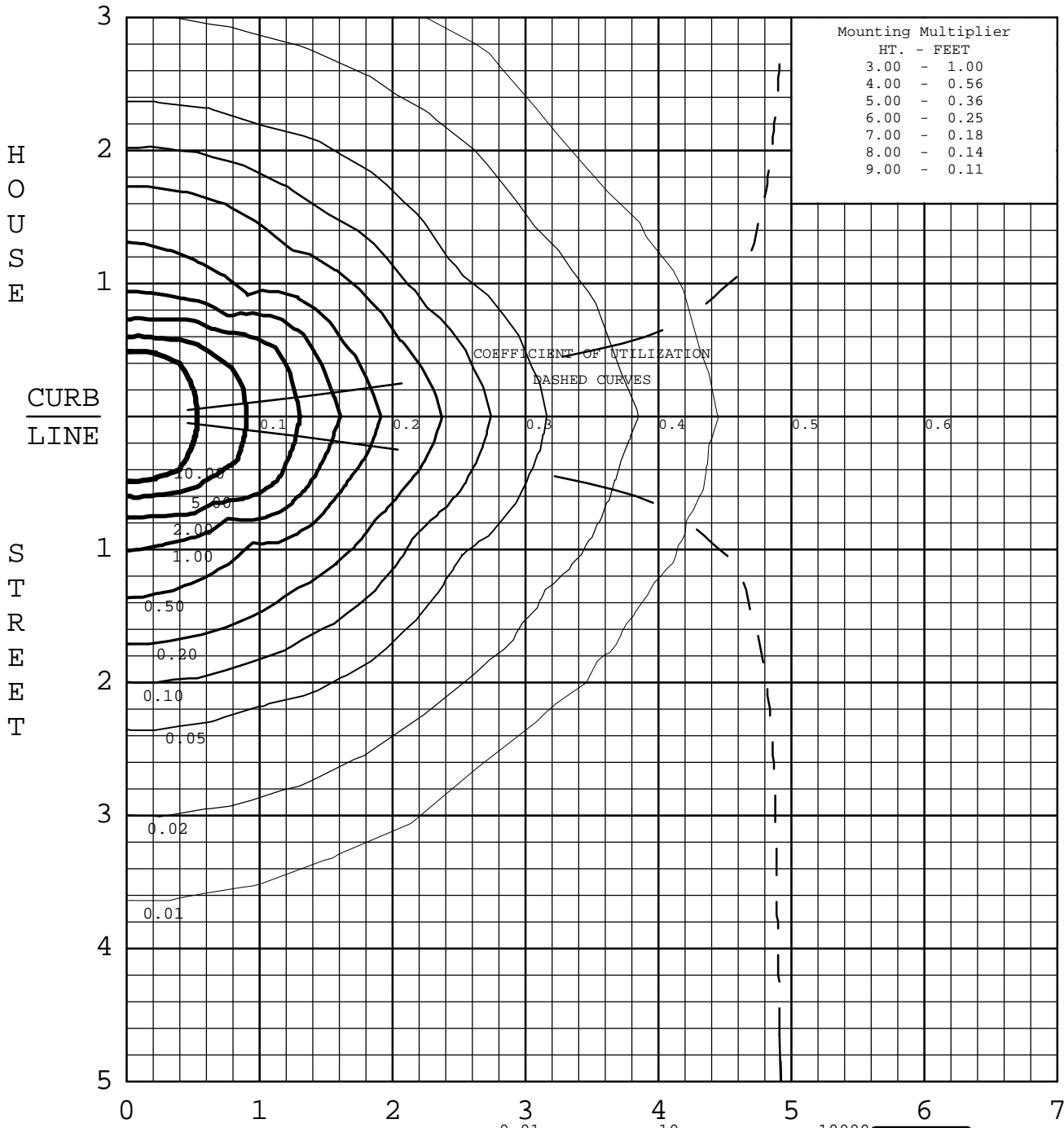
LATERAL RATIOS	0.0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0
-3.00	.019	.019	.017	.014	.011	.009	.006	.005	.004	.003	.002	.002	.001	.001	.001
-2.50	.040	.038	.032	.026	.019	.013	.009	.006	.005	.003	.002	.002	.001	.001	.001
-2.00	0.10	.095	.072	.051	.034	.021	.013	.009	.006	.004	.003	.002	.002	.001	.001
-1.50	0.34	0.28	0.18	0.10	.062	.034	.019	.012	.008	.005	.003	.002	.002	.001	.001
-1.00	0.88	0.71	0.38	0.27	0.11	.057	.031	.017	.010	.006	.004	.003	.002	.001	.001
-0.50	9.5	6.4	2.5	0.78	0.25	0.10	.048	.024	.013	.008	.005	.003	.002	.001	.001
HOUSE	CURB LINE														
STREET	17.	10.	4.0	1.2	0.41	0.15	.064	.030	.016	.009	.005	.003	.002	.002	.001
0.50	9.3	6.1	2.4	0.72	0.24	0.10	.048	.024	.013	.008	.005	.003	.002	.001	.001
1.00	1.0	0.80	0.42	0.27	0.11	.054	.030	.017	.010	.006	.004	.003	.002	.001	.001
1.50	0.35	0.29	0.18	0.11	.062	.034	.019	.012	.008	.005	.004	.002	.002	.001	.001
2.00	.097	.091	.070	.051	.033	.021	.013	.009	.006	.004	.003	.002	.002	.001	.001
2.50	.038	.037	.031	.025	.018	.013	.009	.006	.005	.003	.002	.002	.001	.001	.001
3.00	.019	.019	.016	.014	.011	.008	.006	.005	.004	.003	.002	.002	.001	.001	.001
3.50	.011	.011	.010	.008	.007	.006	.004	.004	.003	.002	.002	.001	.001	.001	.001
4.00	.007	.007	.006	.006	.005	.004	.003	.003	.002	.002	.001	.001	.001	.001	.001
4.50	.005	.004	.004	.004	.003	.003	.002	.002	.002	.001	.001	.001	.001	.001	.001
5.00	.003	.003	.003	.003	.002	.002	.002	.002	.001	.001	.001	.001	.001	.001	.000
	0.0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0

LONGITUDINAL MOUNTING HEIGHT RATIOS

CORRECTION FACTORS FOR OTHER MOUNTING HEIGHTS: SEE ISOFOOTCANDLE PAGE



MOUNTING HEIGHT FOR ISOFC 3.0 FEET



RATIO = $\frac{\text{DISTANCE ALONG}}{\text{MOUNTING HEIGHT}}$

COEFFICIENT OF UTILIZATION	Value	Legend
0.01	10	Thin solid line
0.02	20	Thin solid line
0.05	50	Thin solid line
0.1	100	Thin solid line
0.2	200	Thin solid line
0.5	500	Thin solid line
1	1000	Thin solid line
2	2000	Thin solid line
5	5000	Thin solid line
10000	10000	Thick solid line
20000	20000	Thick solid line
50000	50000	Thick solid line