



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-AS-1-3-2-1-4  
Project Number  
10712772  
Test Number  
33827

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

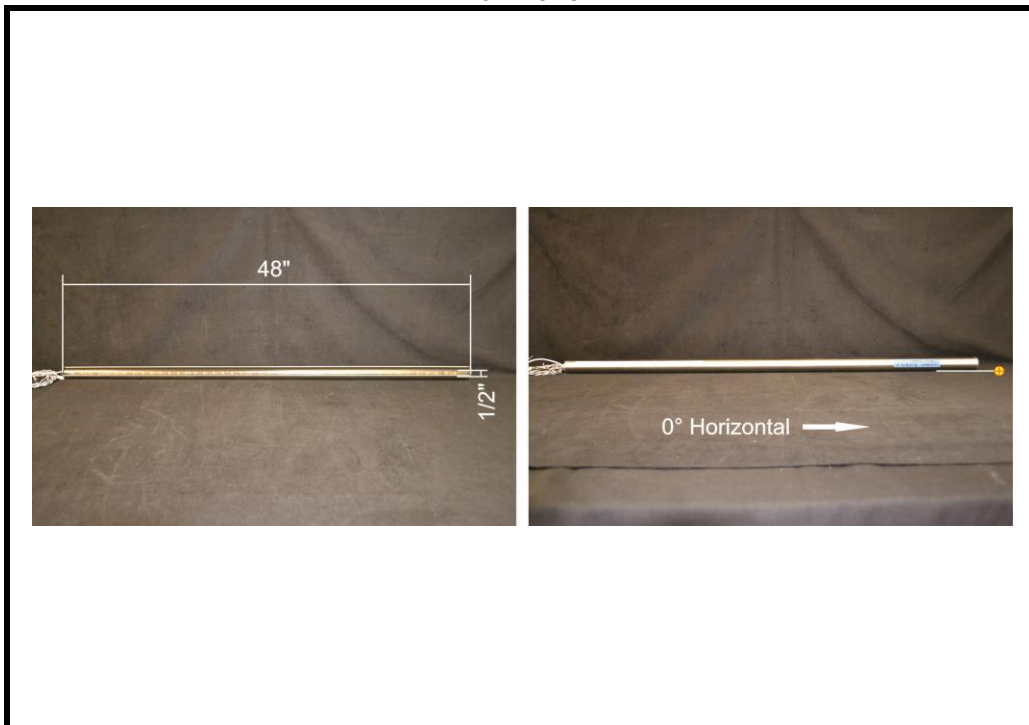
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Luminaire Description: Medium output asymmetric dist. Stainless steel housing, plastic textured lens  
Catalog Number: S3-SS-1-\*\*-NR-AS-1-3-2-1-4  
Lamp: 42 LEDs  
Ballast/Driver: One ACLED AC-A100VD24H4.1 LED Driver

### Luminaire

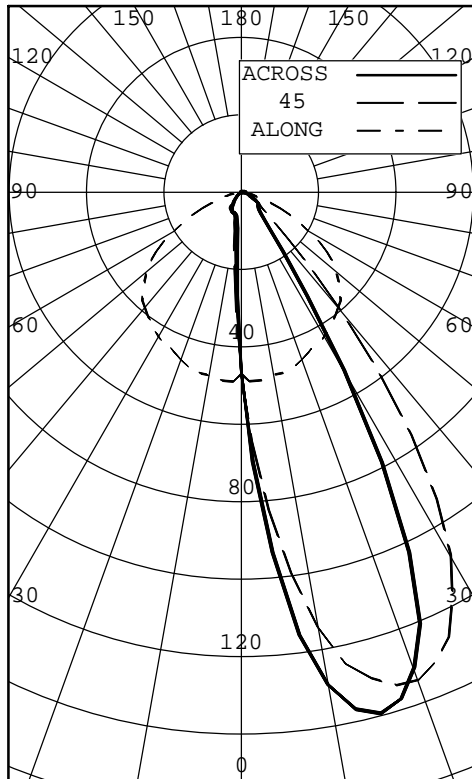


### Test Conditions

Test Temperature:	25.4 °C
Voltage:	120.0 VAC
Current:	0.1262 A
Power:	14.40 W
Power Factor:	0.951
Frequency:	60 Hz
Current THD:	12.6 %



INTENSITY (CANDLEPOWER) SUMMARY OUTPUT  
 BEAM SIDE LUMENS



ANGLE	ALONG	67.5	45	22.5	ACROSS	LUMENS
0	47	47	47	47	47	
5	49	65	82	91	94	4
15	48	99	130	139	140	16
25	44	112	127	114	103	24
35	41	108	77	29	19	19
45	36	82	17	7	7	12
55	27	36	6	5	5	7
65	14	7	4	3	3	3
75	4	3	2	2	2	1
85	0	1	1	1	1	1
90	0	1	1	1	1	
95	0	0	0	1	1	0
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	

BOTH SIDES  
 ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	50	48.06
0-40	72	69.50
0-60	96	93.38
0-90	103	99.78
40-90	31	30.29
60-90	7	6.40
90-180	0	0.22
0-180	103	100.00

EFFICACY (LUMENS PER WATT): 7.2

\*\*\* THIS IS AN ABSOLUTE TEST \*\*\*

LUMINOUS LENGTH: 0.500 INS  
 WIDTH: 48.000 INS

LUMINANCE SUMMARY - CD./SQ.M.

ANGLE	ALONG	45	ACROSS
45	3288	1586	595
55	3040	666	610
65	2139	628	414
75	998	524	400
85	0	817	818

TESTED IN ACCORDANCE WITH IES PROCEDURES.



BEAM SIDE  
INTENSITY (CANDLEPOWER) DATA

ANGLE	PLANE						OUTPUT LUMENS
	ALONG	67.5	45	22.5	ACROSS	AVERAGE	
0	47	47	47	47	47	47	
5	49	65	82	91	94	77	4
10	48	83	114	127	129	103	
15	48	99	130	139	140	115	16
20	46	109	134	135	131	117	
25	44	112	127	114	103	107	24
30	43	112	108	71	53	85	
35	41	108	77	29	19	61	19
40	39	97	40	12	9	43	
45	36	82	17	7	7	32	12
50	32	60	9	6	6	23	
55	27	36	6	5	5	16	7
60	20	14	5	5	4	9	
65	14	7	4	3	3	6	3
70	8	4	3	2	2	4	
75	4	3	2	2	2	2	1
80	2	2	2	1	1	2	
85	0	1	1	1	1	1	1
90	0	1	1	1	1	1	
95	0	0	0	1	1	0	0
100	0	0	0	0	0	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	



OPPOSITE SIDE TO BEAM  
INTENSITY (CANDLEPOWER) DATA

ANGLE	PLANE					AVERAGE	OUTPUT LUMENS
	ALONG	112.5	135	157.5	ACROSS		
0	47	47	47	47	47	47	
5	49	30	21	16	15	25	1
10	48	20	10	8	7	16	
15	48	13	7	6	6	13	2
20	46	9	6	6	6	12	
25	44	7	6	6	6	11	3
30	43	6	6	5	5	10	
35	41	6	5	5	4	10	3
40	39	5	5	3	3	9	
45	36	5	4	3	2	8	3
50	32	5	3	2	2	7	
55	27	4	2	1	1	5	2
60	20	3	1	1	1	4	
65	14	2	1	1	1	3	1
70	8	1	1	0	0	2	
75	4	1	0	0	0	1	0
80	2	0	0	0	0	0	
85	0	0	0	0	0	0	0
90	0	0	0	0	0	0	
95	0	0	0	0	0	0	0
100	0	0	0	0	0	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	.11	1	.061	.061	.06	1	.021	.021	.02	1	1.00
	1	1	.141	.101	.071	.04	1	.121	.081	.051	.02	1	.091	.061	.031	.00	1	.020	.990	.97	0	.980	.960	.94	0	.940	.930	.92	0	0.90
	2	1	.071	.010	.960	.92	1	.050	.990	.950	.91	1	.030	.980	.930	.89	0	.940	.910	.87	0	.910	.880	.86	0	.880	.860	.84	0	0.82
	3	1	.010	.930	.860	.81	0	.990	.910	.860	.81	0	.970	.900	.850	.80	0	.870	.830	.79	0	.850	.810	.78	0	.820	.790	.76	0	0.75
	4	0	.950	.860	.790	.74	0	.930	.850	.780	.73	0	.910	.830	.780	.73	0	.810	.760	.72	0	.790	.750	.71	0	.770	.730	.70	0	0.68
	5	0	.900	.790	.720	.67	0	.880	.780	.710	.66	0	.860	.770	.710	.66	0	.750	.690	.65	0	.730	.680	.65	0	.720	.680	.64	0	0.62
	6	0	.840	.730	.660	.61	0	.820	.720	.650	.60	0	.810	.710	.650	.60	0	.700	.640	.60	0	.680	.630	.59	0	.670	.620	.59	0	0.57
	7	0	.780	.670	.600	.55	0	.770	.660	.600	.55	0	.760	.660	.590	.54	0	.640	.580	.54	0	.630	.580	.54	0	.620	.570	.53	0	0.52
	8	0	.740	.620	.550	.50	0	.730	.610	.550	.50	0	.710	.610	.540	.50	0	.600	.540	.50	0	.590	.530	.49	0	.570	.530	.49	0	0.47
	9	0	.690	.580	.500	.45	0	.680	.570	.500	.45	0	.670	.560	.500	.45	0	.550	.490	.45	0	.540	.490	.45	0	.530	.480	.45	0	0.43
	10	0	.650	.530	.460	.42	0	.640	.530	.460	.42	0	.630	.520	.460	.42	0	.510	.450	.41	0	.510	.450	.41	0	.500	.450	.41	0	0.40

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. \*\*

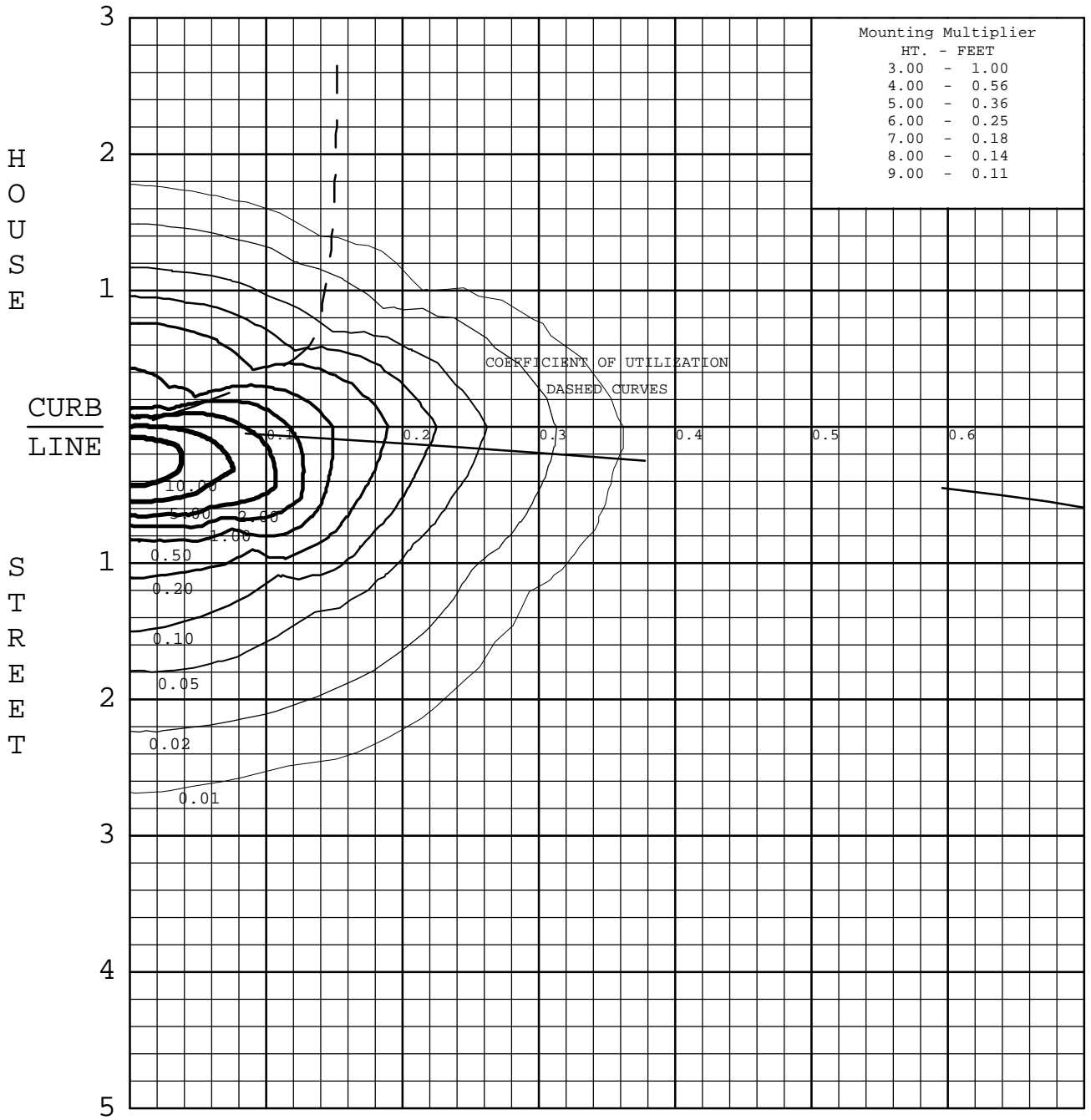
LATERAL RATIOS	0.0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0
-3.00	.001	.001	.001	.001	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
-2.50	.002	.002	.001	.001	.001	.001	.000	.000	.000	.000	.000	.000	.000	.000	.000
-2.00	.006	.005	.004	.003	.002	.001	.001	.001	.000	.000	.000	.000	.000	.000	.000
-1.50	.019	.017	.013	.007	.006	.003	.002	.001	.001	.001	.001	.000	.000	.000	.000
-1.00	.082	.073	.045	.026	.013	.009	.006	.004	.002	.001	.001	.001	.000	.000	.000
-0.50	0.45	0.31	0.15	0.13	.066	.031	.015	.007	.004	.002	.001	.001	.001	.000	.000
HOUSE	CURB LINE														
STREET	5.1	3.4	1.4	0.48	0.15	.059	.025	.011	.006	.003	.002	.001	.001	.001	.000
0.50	6.9	4.5	1.9	0.33	0.10	.040	.018	.009	.005	.003	.002	.001	.001	.001	.000
1.00	0.25	0.23	0.13	0.10	.046	.021	.012	.007	.004	.003	.002	.001	.001	.001	.000
1.50	.099	.085	.058	.036	.023	.013	.008	.005	.003	.002	.001	.001	.001	.001	.000
2.00	.030	.029	.023	.018	.012	.008	.005	.004	.002	.002	.001	.001	.001	.000	.000
2.50	.013	.012	.011	.009	.007	.005	.004	.003	.002	.001	.001	.001	.001	.000	.000
3.00	.007	.006	.006	.005	.004	.003	.002	.002	.001	.001	.001	.001	.001	.000	.000
3.50	.004	.004	.003	.003	.003	.002	.002	.001	.001	.001	.001	.001	.001	.000	.000
4.00	.002	.002	.002	.002	.002	.002	.001	.001	.001	.001	.001	.000	.000	.000	.000
4.50	.002	.002	.002	.001	.001	.001	.001	.001	.001	.001	.000	.000	.000	.000	.000
5.00	.001	.001	.001	.001	.001	.001	.001	.001	.001	.000	.000	.000	.000	.000	.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



Mounting Multiplier	
HT. - FEET	
3.00	- 1.00
4.00	- 0.56
5.00	- 0.36
6.00	- 0.25
7.00	- 0.18
8.00	- 0.14
9.00	- 0.11

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

0.01	—————	10	—————	10000
0.02	—————	20	—————	20000
0.05	—————	50	—————	50000
0.1	—————	100	—————	
0.2	—————	200	—————	
0.5	—————	500	—————	
1	—————	1000	—————	
2	—————	2000	—————	
5	—————	5000	—————	