



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-2-3-2-1-4
Project Number
10712772
Test Number
33825

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

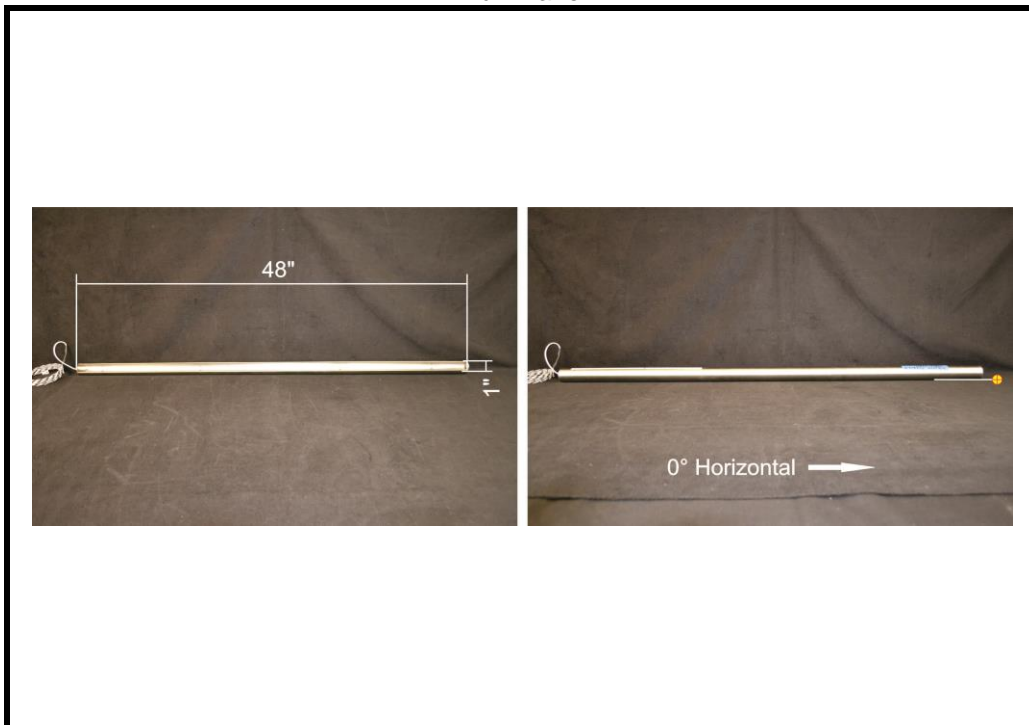
The results contained in this report pertain only to the tested sample.
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Luminaire Description: High output standard dist. Stainless steel housing, plastic textured lens
Catalog Number: S3-SS-1-**-NR-ST-2-3-2-1-4
Lamp: 72 LEDs
Ballast/Driver: One ACLED AC-A100VD24H4.1 LED Driver

Luminaire

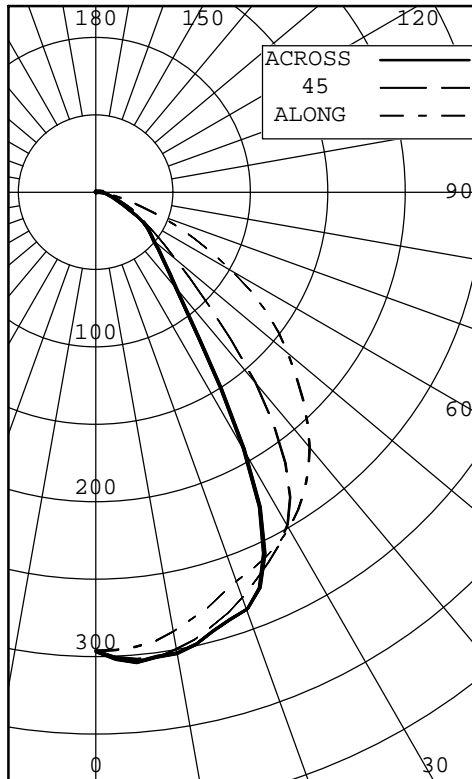


Test Conditions

Test Temperature:	25.4 °C
Voltage:	120.0 VAC
Current:	0.1823 A
Power:	21.40 W
Power Factor:	0.975
Frequency:	60 Hz
Current THD:	10.6 %



INTENSITY (CANDLEPOWER) SUMMARY OUTPUT LUMENS



ANGLE	ALONG	22.5	45	67.5	ACROSS	OUTPUT LUMENS
0	296	296	296	296	296	
5	295	296	303	305	305	29
15	278	283	290	296	293	81
25	260	263	264	268	257	120
35	235	238	214	142	118	120
45	189	191	103	66	62	94
55	135	113	47	41	41	65
65	70	43	26	22	19	34
75	23	14	12	10	10	15
85	3	4	6	6	6	6
90	0	2	4	5	5	
95	0	1	2	3	3	2
105	0	0	0	1	1	1
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	230	40.57
0-40	350	61.77
0-60	509	89.72
0-90	564	99.41
40-90	213	37.64
60-90	55	9.69
90-180	3	0.59
0-180	567	100.00

EFFICACY (LUMENS PER WATT): 26.5

*** THIS IS AN ABSOLUTE TEST ***

LUMINOUS LENGTH: 48.000 INS
 WIDTH: 1.000 INS

LUMINANCE SUMMARY CD./SQ.M.

S/MH: 1.1
 SC(ALONG): 1.3, SC(ACROSS): 1.1

ANGLE	ALONG	45	ACROSS
45	8633	4733	2821
55	7577	2681	2322
65	5333	1982	1491
75	2869	1480	1277
85	1259	2080	2287

TESTED IN ACCORDANCE WITH IES PROCEDURES.



INTENSITY (CANDLEPOWER) DATA

ANGLE	PLANE						OUTPUT LUMENS
	ALONG	22.5	45	67.5	ACROSS	AVERAGE	
0	296	296	296	296	296	296	
5	295	296	303	305	305	301	29
10	288	293	300	303	303	298	
15	278	283	290	296	293	289	81
20	267	271	278	286	287	278	
25	260	263	264	268	257	263	120
30	250	254	248	217	192	235	
35	235	238	214	142	118	193	120
40	215	216	160	92	81	154	
45	189	191	103	66	62	121	94
50	162	154	68	51	49	94	
55	135	113	47	41	41	72	65
60	102	73	35	33	31	52	
65	70	43	26	22	19	34	34
70	43	25	18	14	14	21	
75	23	14	12	10	10	13	15
80	11	9	8	8	8	8	
85	3	4	6	6	6	5	6
90	0	2	4	5	5	3	
95	0	1	2	3	3	2	2
100	0	0	1	2	2	1	
105	0	0	0	1	1	0	1
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	



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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	.061	.06	1.021	.021	.021	.02	0.99
	1	1.141	.101	.071	.03	1.111	.081	.051	.02	1.091	.061	.031	.00	1.010	.990	.97	0.970	.960	.94	0.940	.920	.91	0.89			
	2	1.061	.000	.950	.90	1.040	.980	.930	.89	1.020	.960	.920	.88	0.930	.890	.86	0.900	.870	.84	0.870	.840	.82	0.80			
	3	0.990	.910	.840	.79	0.970	.890	.830	.78	0.950	.880	.820	.77	0.850	.800	.76	0.820	.780	.75	0.800	.770	.73	0.72			
	4	0.930	.830	.760	.70	0.910	.820	.750	.70	0.890	.810	.740	.69	0.780	.730	.68	0.760	.710	.67	0.740	.700	.67	0.65			
	5	0.870	.760	.680	.62	0.850	.750	.670	.62	0.830	.740	.670	.62	0.720	.660	.61	0.700	.650	.61	0.680	.640	.60	0.58			
	6	0.810	.690	.620	.56	0.790	.680	.610	.56	0.780	.680	.610	.56	0.660	.600	.55	0.640	.590	.55	0.630	.580	.54	0.52			
	7	0.750	.630	.550	.51	0.740	.620	.550	.50	0.720	.620	.550	.50	0.600	.540	.49	0.590	.530	.49	0.580	.520	.49	0.47			
	8	0.710	.580	.510	.45	0.690	.570	.500	.45	0.680	.570	.500	.45	0.550	.490	.45	0.540	.490	.44	0.530	.480	.44	0.42			
	9	0.660	.540	.460	.41	0.640	.530	.460	.41	0.630	.520	.450	.41	0.510	.450	.40	0.500	.440	.40	0.490	.440	.40	0.38			
	10	0.610	.490	.420	.37	0.600	.490	.420	.37	0.590	.480	.410	.37	0.470	.410	.37	0.460	.400	.36	0.450	.400	.36	0.35			

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. **

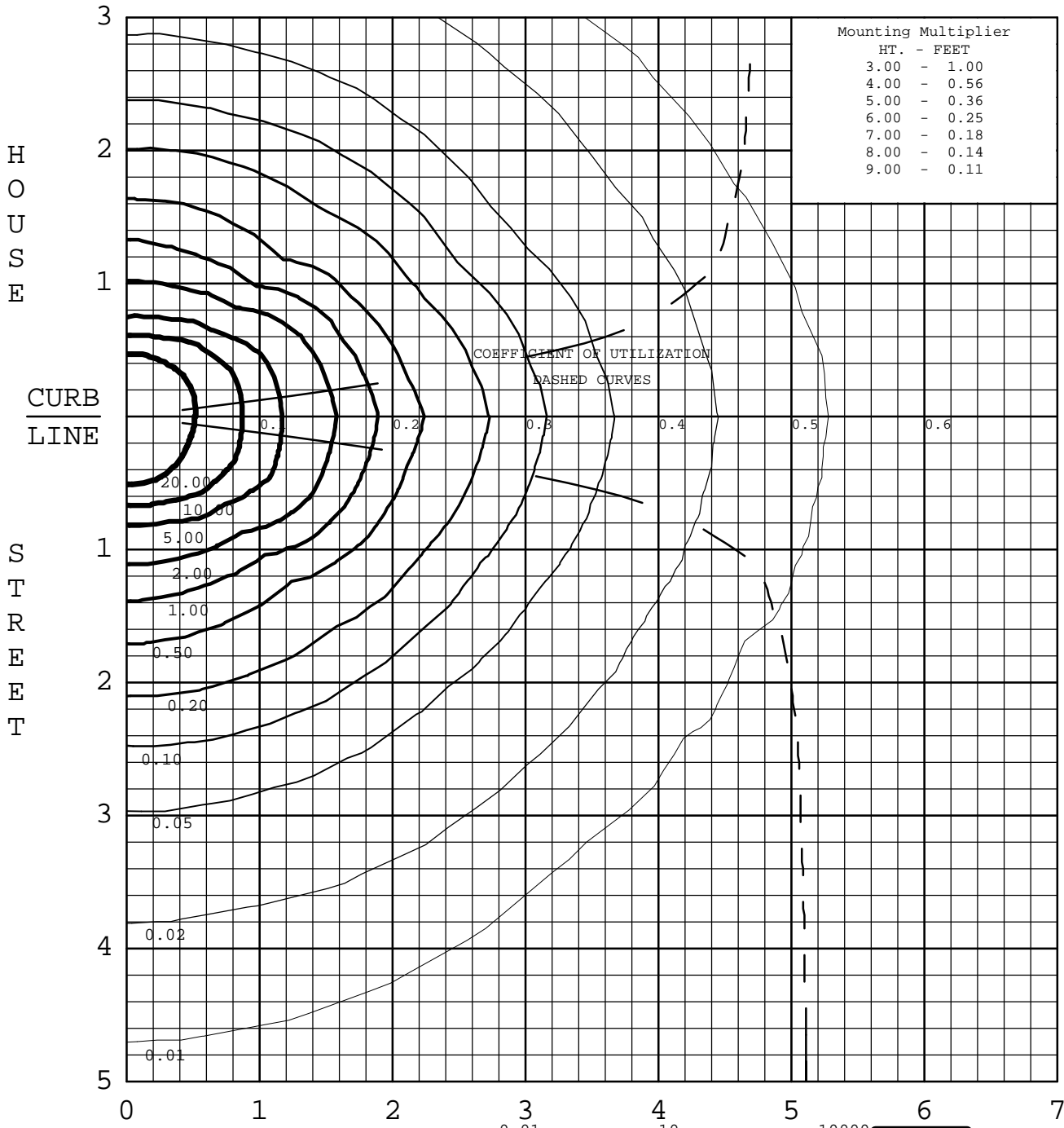
LATERAL RATIOS	0.0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0
-3.00	.041	.040	.035	.029	.023	.018	.013	.010	.007	.006	.004	.003	.002	.002	.002
-2.50	.081	.078	.066	.053	.039	.027	.019	.013	.010	.007	.005	.004	.003	.002	.002
-2.00	0.19	0.18	0.14	0.10	.068	.044	.028	.018	.012	.008	.006	.004	.003	.002	.002
-1.50	0.68	0.58	0.37	0.21	0.12	.072	.041	.025	.016	.011	.007	.005	.004	.003	.002
-1.00	2.0	1.7	0.90	0.58	0.25	0.12	.064	.036	.021	.013	.009	.006	.004	.003	.002
-0.50	17.	12.	4.7	1.5	0.51	0.20	.096	.049	.027	.016	.010	.007	.004	.003	.002
HOUSE STREET	32.	20.	7.4	2.3	0.78	0.29	0.12	.061	.032	.018	.011	.007	.005	.003	.002
0.50	20.	13.	5.2	1.7	0.56	0.22	.100	.050	.028	.016	.010	.007	.005	.003	.002
1.00	2.7	2.2	1.1	0.68	0.29	0.13	.068	.038	.022	.014	.009	.006	.004	.003	.002
1.50	0.78	0.65	0.43	0.23	0.14	.082	.045	.026	.017	.011	.008	.006	.004	.003	.002
2.00	0.24	0.23	0.17	0.11	.077	.049	.031	.020	.013	.009	.007	.005	.003	.003	.002
2.50	.094	.090	.075	.059	.043	.030	.021	.015	.010	.008	.006	.004	.003	.002	.002
3.00	.046	.045	.039	.033	.026	.020	.014	.011	.008	.006	.005	.004	.003	.002	.002
3.50	.026	.025	.023	.020	.017	.013	.010	.008	.006	.005	.004	.003	.002	.002	.001
4.00	.016	.016	.015	.013	.011	.009	.008	.006	.005	.004	.003	.003	.002	.002	.001
4.50	.011	.010	.010	.009	.008	.007	.006	.005	.004	.003	.003	.002	.002	.001	.001
5.00	.007	.007	.007	.007	.006	.005	.004	.004	.003	.003	.002	.002	.002	.001	.001
	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	