

REPORT NUMBER: ITL81712

PAGE: 1 OF 5

ISSUE DATE: 06/02/14

PREPARED FOR: FINELITE, INC.

CATALOG NUMBER: S16-DCO-2T8-91W-STO

LUMINAIRE: FABRICATED METAL HOUSING WITH WHITE PAINTED GENERAL INTERIOR FINISH, WHITE PAINTED FLAT METAL END CAPS, 2 FORMED WHITE PAINTED METAL OUTBOARD REFLECTORS/BALLAST COVERS, FORMED WHITE PAINTED PERFORATED METAL TOP DIFFUSER COVERING TOP AND SIDES OF LAMPS, TRANSLUCENT WHITE FROSTED BOTTOM DIFFUSER. DIFFUSER FROSTED SIDE DOWN.

LAMPS: TWO 32-WATT T-8 FO32/841/XPS/ECO LINEAR FLUORESCENTS.

TOTAL INPUT WATTS = 55.5 AT 120.0 VOLTS

BALLAST: SYLVANIA QTP 2X32/UNV ISN-SC

THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.

MOUNTING: SUSPENDED

REPORT IS BASED ON 3100 LUMENS PER LAMP.

## CANDELA DISTRIBUTION

## FLUX

	0.0	22.5	45.0	67.5	90.0	
0	993	993	993	993	993	
5	992	988	991	992	989	94
15	957	950	955	955	952	269
25	884	876	883	883	882	406
35	779	774	781	781	782	487
45	649	646	653	653	653	502
55	502	501	504	504	504	449
65	347	347	346	345	346	343
75	197	198	195	195	195	208
85	63	60	59	59	57	67
90	2	3	5	6	6	
95	8	20	27	31	33	30
105	56	78	114	123	126	107
115	135	158	202	234	242	193
125	223	246	292	323	330	254
135	309	325	364	394	401	277
145	384	395	422	445	448	262
155	444	449	465	477	478	214
165	484	485	493	498	496	139
175	503	502	504	503	502	48
180	504	504	504	504	504	

## ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT
0- 30	769	12.4	17.7
0- 40	1256	20.3	28.9
0- 60	2208	35.6	50.8
0- 90	2825	45.6	65.0
90-120	330	5.3	7.6
90-130	584	9.4	13.4
90-150	1123	18.1	25.8
90-180	1524	24.6	35.0
0-180	4349	70.1	100.0

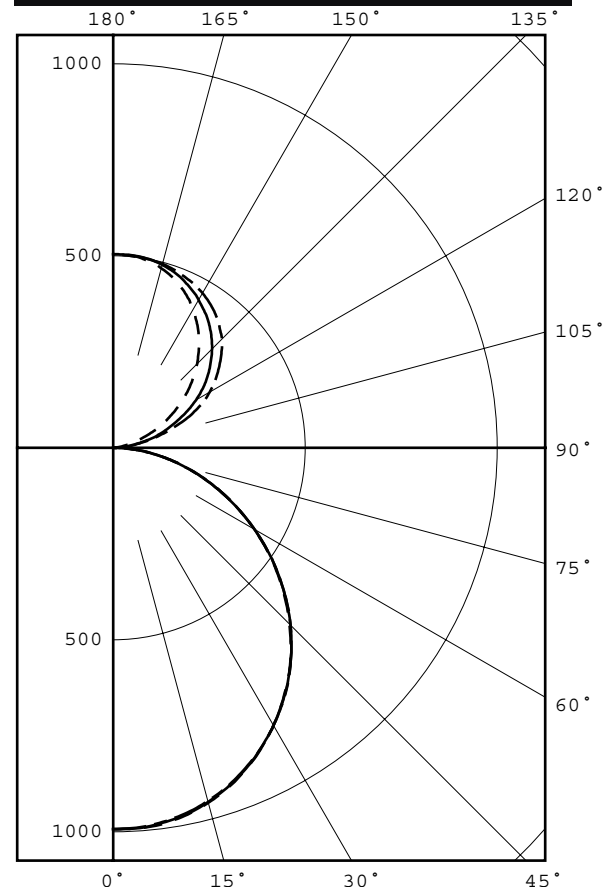
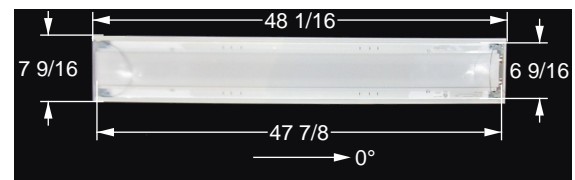
TOTAL LUMINAIRE EFFICIENCY = 70.1 %

CIE TYPE - SEMI-DIRECT

PLANE : 0-DEG 90-DEG

SPACING CRITERIA : 1.25 1.25

SHIELDING ANGLES : 90 90



### LEGEND:

0-deg - - - - -  
45-deg - - - - -  
90-deg - - - - -

Checked M KLOPF  
Approved R BEATTIE  
Lighting Engineer



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THE LIGHT CENTER OF THE INDUSTRY SINCE 1955

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PLANE : 0-DEG 90-DEG  
LUMINOUS LENGTH : 42.875 3.437

LUMINANCE DATA IN CANDELA/SQ M			
ANGLE	AVERAGE	AVERAGE	AVERAGE
IN DEG	0-DEG	45-DEG	90-DEG
45	9653.	9712.	9712.
55	9204.	9241.	9241.
65	8635.	8610.	8610.
75	8005.	7924.	7924.
85	7602.	7119.	6878.



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CANDELA DISTRIBUTION  
LATERAL ANGLE

	0.0	22.5	45.0	67.5	90.0
0.0	993	993	993	993	993
5.0	992	988	991	992	989
10.0	980	974	978	979	975
15.0	957	950	955	955	952
20.0	925	916	923	923	921
25.0	884	876	883	883	882
30.0	835	827	835	835	835
35.0	779	774	781	781	782
40.0	718	713	720	721	720
45.0	649	646	653	653	653
50.0	577	575	580	581	580
55.0	502	501	504	504	504
60.0	424	424	425	424	425
65.0	347	347	346	345	346
70.0	271	271	269	268	269
75.0	197	198	195	195	195
80.0	126	127	126	125	124
85.0	63	60	59	59	57
90.0	2	3	5	6	6
95.0	8	20	27	31	33
100.0	27	49	66	72	74
105.0	56	78	114	123	126
110.0	93	114	156	179	184
115.0	135	158	202	234	242
120.0	179	203	249	281	290
125.0	223	246	292	323	330
130.0	267	287	329	362	366
135.0	309	325	364	394	401
140.0	348	362	395	422	426
145.0	384	395	422	445	448
150.0	416	425	445	463	465
155.0	444	449	465	477	478
160.0	467	470	482	488	488
165.0	484	485	493	498	496
170.0	496	495	501	502	500
175.0	503	502	504	503	502
180.0	504	504	504	504	504



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5-DEGREE  
ZONAL LUMEN SUMMARY

0- 5	24
5- 10	70
10- 15	115
15- 20	155
20- 25	189
25- 30	217
30- 35	237
35- 40	250
40- 45	253
45- 50	248
50- 55	235
55- 60	214
60- 65	187
65- 70	156
70- 75	122
75- 80	86
80- 85	50
85- 90	17
90- 95	7
95-100	23
100-105	43
105-110	65
110-115	87
115-120	106
120-125	122
125-130	132
130-135	138
135-140	139
140-145	135
145-150	127
150-155	115
155-160	99
160-165	80
165-170	59
170-175	36
175-180	12

10-DEGREE  
ZONAL LUMEN SUMMARY

0- 10	94
0- 20	363
0- 30	769
0- 40	1256
0- 50	1758
0- 60	2208
0- 70	2551
0- 80	2758
0- 90	2825
0-100	2854
0-110	2962
0-120	3155
0-130	3409
0-140	3686
0-150	3948
0-160	4162
0-170	4301
0-180	4349



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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	78	78	78	78	73	73	73	73	64	64	64	56	56	56	49	49	49	46
1	71	67	65	62	66	64	61	59	56	54	52	49	48	46	43	42	41	38
2	64	59	54	50	60	55	51	48	49	46	43	43	41	39	38	36	34	31
3	59	52	46	42	55	49	44	40	43	39	36	38	35	32	33	31	29	26
4	54	46	40	35	50	43	38	34	38	34	31	34	30	28	30	27	25	23
5	49	41	35	30	46	38	33	29	34	30	26	30	27	24	27	24	22	20
6	45	36	30	26	42	34	29	25	31	26	23	27	24	21	24	21	19	17
7	42	33	27	23	39	31	26	22	28	24	20	25	21	19	22	19	17	15
8	39	30	24	20	36	28	23	20	25	21	18	23	19	17	20	17	15	13
9	36	27	22	18	34	26	21	18	23	19	16	21	17	15	19	16	14	12
10	34	25	20	16	32	24	19	16	22	17	15	19	16	13	17	14	12	11

ALL CANDELA, LUMENS, LUMINANCE, COEFFICIENT OF UTILIZATION AND VCP VALUES IN THIS REPORT ARE BASED ON RELATIVE PHOTOMETRY WHICH ASSUMES A BALLAST FACTOR OF 1.000. ANY CALCULATIONS PREPARED FROM THESE DATA SHOULD INCLUDE AN APPROPRIATE BALLAST FACTOR.