



PHONE: (303) 442-1255 • FAX: (970) 535-3114 • E-MAIL: [itl@itlboulder.com](mailto:itl@itlboulder.com) • WEBSITE: [www.itlboulder.com](http://www.itlboulder.com)



INDEPENDENT TESTING LABORATORIES, INC.  
4066 CAMELOT CIRCLE, LONGMONT, CO 80504 USA

**REPORT NUMBER:** ITL93789-GONIOPHOTOMETRY

**PAGE:** 1 OF 6

**ISSUE DATE:** 09/29/20

**PREPARED FOR:** FINELITE, INC.

**ADDRESS:** 30500 WHIPPLE ROAD

UNION CITY, CA 94587

**CATALOG NUMBER:** S19-P-ID-4ft-2E-V-835-OPEN

**LUMINAIRE:** EXTRUDED METAL HOUSING WITH WHITE PAINTED GENERAL INTERIOR FINISH AND CAST WHITE PAINTED METAL END CAPS, FOUR WHITE CIRCUIT BOARDS EACH WITH 80 LEDS, INTERIOR FROSTED TRANSLUCENT PLASTIC DIFFUSER OVER EACH CIRCUIT BOARD, FABRICATED WHITE PAINTED METAL TOP DRIVER COVER, TWO FROSTED TRANSLUCENT WHITE PLASTIC BOTTOM DIFFUSERS, TWO FROSTED TRANSLUCENT WHITE PLASTIC DIFFUSERS IN EACH END CAP. BOTTOM AND END DIFFUSERS FROSTED BOTH SIDES.

**LAMPS:** THREE HUNDRED TWENTY WHITE LIGHT EMITTING DIODES (LEDS), AIMED AT THE HORIZON.

**MOUNTING:** SUSPENDED

**LED DRIVER:** OTi 50/120-277/1A4 DIM-1 L G2, DRIVER HAS MULTIPLE LEADS, ONLY LINE INPUT AND LED OUTPUT LEADS CONNECTED FOR THIS TEST. CLIENT STATES DRIVER PROGRAMMED FOR 700mA OUTPUT.

**NOTE:** DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED AT RATED INPUT VOLTAGE (277VAC, 60Hz) TO THE DRIVER.

**INPUT ELECTRICAL:** 277.0 VOLTS, 34.4 WATTS, 0.134 AMPS

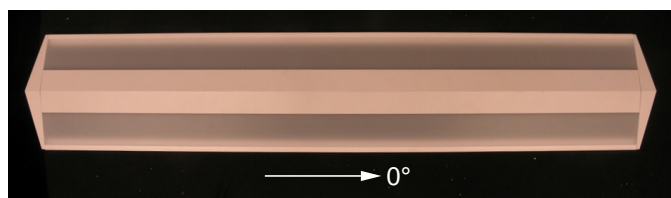
POWER FACTOR: 92.7%, VOLTAGE THD: 0.1, CURRENT THD: 14.5

TEST PROCEDURE: IESNA LM-79-19

TEST DISTANCE = 35.0 FEET

AMBIENT: 24.2

THIS REPORT WITH THE USE OF THE NVLAP LOGO SHALL NOT BE USED BY THE CLIENT TO CLAIM PRODUCT CERTIFICATION, APPROVAL, OR ENDORSEMENT BY NVLAP, NIST, OR ANY AGENCY OF THE FEDERAL GOVERNMENT.



Approved C STOUT

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CATALOG NUMBER: S19-P-ID-4'-2E-V-835-OPEN-277V-X-X-X

#### CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	353	353	353	353	353
5	352	353	353	354	354
15	345	347	355	361	362
25	331	336	353	367	371
35	306	315	339	363	371
45	268	280	310	339	351
55	219	231	262	292	305
65	158	170	197	225	238
75	91	101	124	148	158
85	31	38	64	88	98
90	8	38	69	94	105
95	39	290	530	467	442
105	108	394	637	765	806
115	171	431	700	825	860
125	220	431	693	834	877
135	255	418	642	778	824
145	278	392	565	681	720
155	290	363	472	557	586
165	295	330	383	424	440
175	296	302	313	321	325
180	296	296	296	296	296

#### FLUX

34
100
162
212
239
234
195
132
74
364
595
611
560
460
336
213
108
31

ZONAL LUMEN ZONE	SUMMARY LUMENS	%FIXT
0- 30	297	6.4
0- 40	509	10.9
0- 60	981	21.1
0- 90	1382	29.7
90-120	1570	33.7
90-130	2130	45.7
90-150	2926	62.8
90-180	3278	70.3
0-180	4660	100.0

EFFICACY (277) = 135.5 lm/W

EFFICACY (120) = 135.5 lm/W \*\*

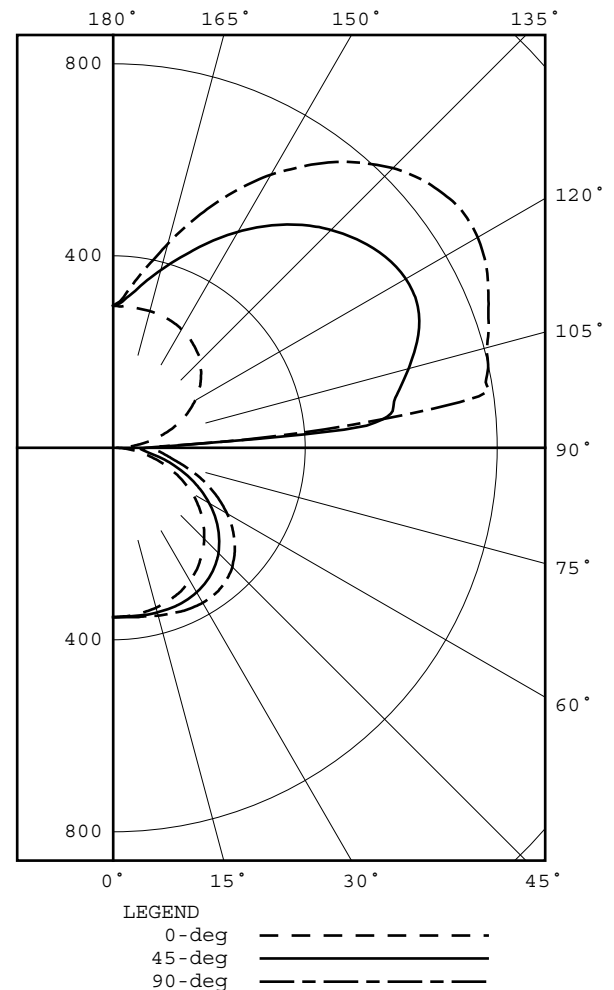
\*\* THE EFFICACY AT 120 VOLTS IS BASED ON THE LUMENS FROM THIS REPORT AND THE WATTAGE MEASURED AT 120 VOLTS INPUT.

CIE TYPE - SEMI-INDIRECT

PLANE : 0-DEG 90-DEG

BEAM ANGLE (50%) : N/A X 70.1 DEGREES

FIELD ANGLE (10%) : 151.0 X N/A DEGREES





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CATALOG NUMBER: S19-P-ID-4'-2E-V-835-OPEN-277V-X-X-X

CANDELA DISTRIBUTION  
LATERAL ANGLE

	0.0	22.5	45.0	67.5	90.0
0.0	353	353	353	353	353
5.0	352	353	353	354	354
10.0	349	351	354	357	357
15.0	345	347	355	361	362
20.0	339	343	355	365	366
25.0	331	336	353	367	371
30.0	320	327	348	366	373
35.0	306	315	339	363	371
40.0	288	299	327	353	364
45.0	268	280	310	339	351
50.0	245	257	288	319	331
55.0	219	231	262	292	305
60.0	190	202	231	261	274
65.0	158	170	197	225	238
70.0	125	135	161	187	200
75.0	91	101	124	148	158
80.0	59	69	88	111	122
85.0	31	38	64	88	98
90.0	8	38	69	94	105
95.0	39	290	530	467	442
100.0	74	347	597	745	788
105.0	108	394	637	765	806
110.0	141	420	676	796	832
115.0	171	431	700	825	860
120.0	197	433	704	839	877
125.0	220	431	693	834	877
130.0	239	426	671	812	857
135.0	255	418	642	778	824
140.0	268	406	606	734	777
145.0	278	392	565	681	720
150.0	285	378	519	623	657
155.0	290	363	472	557	586
160.0	293	348	425	490	512
165.0	295	330	383	424	440
170.0	295	315	345	369	377
175.0	296	302	313	321	325
180.0	296	296	296	296	296



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5-DEGREE  
ZONAL LUMEN SUMMARY

0- 5	8
5- 10	25
10- 15	42
15- 20	58
20- 25	74
25- 30	88
30- 35	101
35- 40	111
40- 45	118
45- 50	121
50- 55	120
55- 60	114
60- 65	104
65- 70	91
70- 75	75
75- 80	57
80- 85	41
85- 90	33
90- 95	104
95-100	259
100-105	293
105-110	303
110-115	307
115-120	303
120-125	290
125-130	270
130-135	244
135-140	215
140-145	184
145-150	152
150-155	121
155-160	92
160-165	65
165-170	43
170-175	23
175-180	7

10-DEGREE  
ZONAL LUMEN SUMMARY

0- 10	34
0- 20	134
0- 30	297
0- 40	509
0- 50	747
0- 60	981
0- 70	1176
0- 80	1308
0- 90	1382
0-100	1746
0-110	2341
0-120	2952
0-130	3512
0-140	3972
0-150	4308
0-160	4521
0-170	4629
0-180	4660



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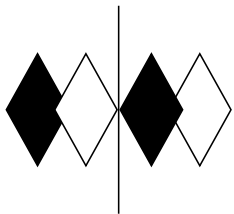
CATALOG NUMBER: S19-P-ID-4'-2E-V-835-OPEN-277V-X-X-X

# 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	102	102	102	102	92	92	92	92	72	72	72	54	54	54	37	37	37	30
1	93	88	84	80	83	79	76	72	62	60	57	46	45	43	32	31	30	24
2	84	76	70	65	75	68	63	59	54	50	47	40	38	36	28	26	25	19
3	76	67	59	53	68	60	54	48	47	43	39	35	32	30	24	22	21	16
4	69	59	51	45	62	53	46	41	41	37	33	31	28	25	21	19	17	13
5	63	52	44	38	57	47	40	34	37	32	28	28	24	21	19	17	15	11
6	58	46	38	32	52	42	35	30	33	28	24	25	21	18	17	15	13	10
7	54	42	34	28	48	37	31	26	30	25	21	22	19	16	15	13	11	8
8	50	37	30	25	44	34	27	22	27	22	18	20	17	14	14	12	10	7
9	46	34	27	22	41	31	24	20	24	20	16	19	15	12	13	11	9	7
10	43	31	24	19	38	28	22	18	22	18	14	17	14	11	12	10	8	6

ALL CANDELA, LUMENS, LUMINANCE, AND VCP VALUES IN THIS REPORT ARE BASED ON ABSOLUTE PHOTOMETRY. THE COEFFICIENT OF UTILIZATION VALUES ARE BASED ON THE TOTAL ABSOLUTE LUMEN OUTPUT OF THIS TEST SAMPLE.



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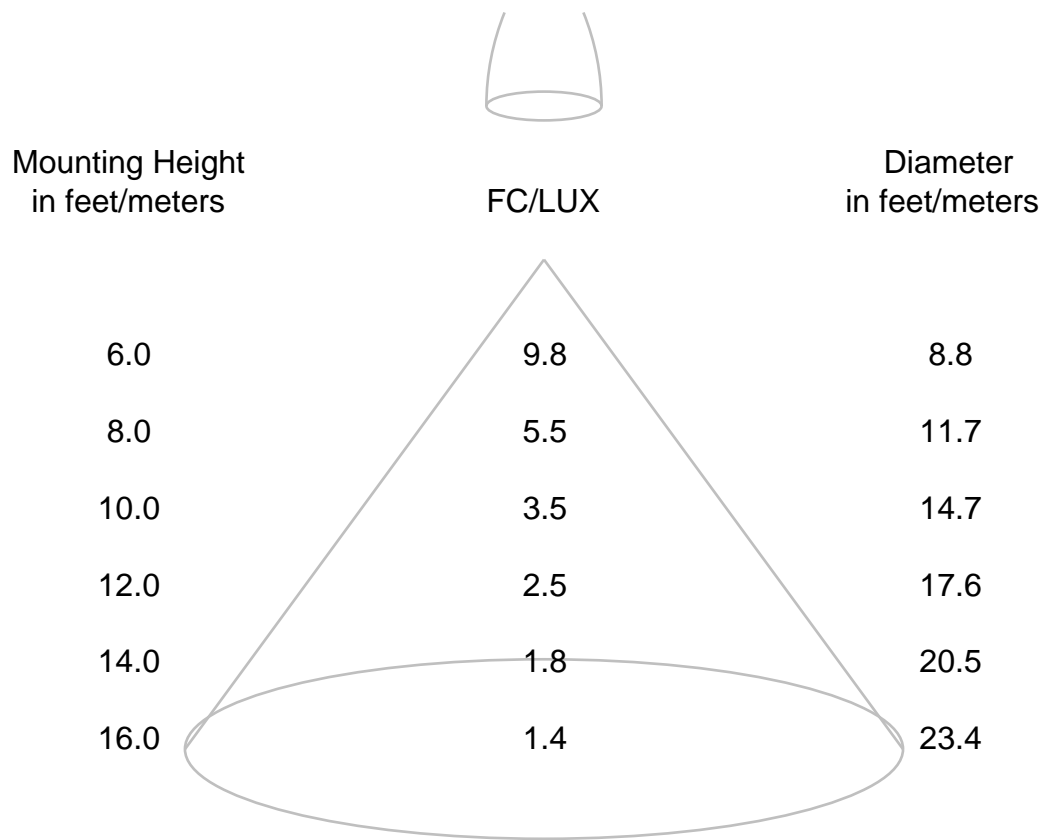
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## CONE OF LIGHT DIAGRAM

(diameter shown is where fc/lux value is half the fc/lux at nadir)



If distances are feet, results are footcandles.  
If distances are meters, results are lux.

Note: The candela values used to generate this diagram were obtained by averaging the photometric data into a single plane.