



PHONE: (303) 442-1255

FAX: (970) 535-3114

E-MAIL: itl@itlboulder.com

WEBSITE: www.itlboulder.com



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

REPORT NUMBER: ITL89348

PAGE: 1 OF 6

ISSUE DATE: 06/19/17

PREPARED FOR: FINELITE, INC.

ADDRESS: 30500 WHIPPLE ROAD

UNION CITY, CA 94587

CATALOG NUMBER: HO4-D-RO-4ft-V-835-OPN

LUMINAIRE: EXTRUDED WHITE PAINTED METAL HOUSING WITH CAST WHITE PAINTED METAL END CAPS, FORMED METAL REFLECTOR POSITIONING PLATE, FORMED "WHITE98 REFLECTIVE FILM" REFLECTOR, 4 CIRCUIT BOARDS EACH WITH 80 LEDS. OPEN BOTTOM AND ENDS.

LAMPS: THREE HUNDRED TWENTY WHITE LIGHT EMITTING DIODES (LEDs), VERTICAL BASE-DOWN POSITION.

INPUT ELECTRICAL: 277.0 VOLTS, 35.9 WATTS, 0.135 AMPS

MOUNTING: PENDANT

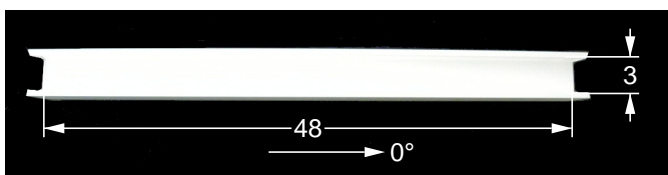
LED DRIVER: OSRAM OTi 50/120-277/1A4 DIM L, DRIVER HAS MULTIPLE LEADS, ONLY LINE INPUT AND LED OUTPUT LEADS CONNECTED FOR THIS TEST, CLIENT STATES DRIVER PROGRAMMED FOR 700mA OUTPUT.

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

TEST PROCEDURE: IESNA LM-79-08

TEST DISTANCE = 35.0 FEET

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.



Checked

M KLOPF
TECHNICIAN

Approved

R BEATTIE
LIGHTING ENGINEER

REPORT NUMBER: ITL89348-GONIOPHOTOMETRY

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CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0	
0	1200	1200	1200	1200	1200	
5	1197	1192	1186	1182	1180	113
15	1169	1143	1132	1124	1120	321
25	1105	1062	1053	1047	1042	489
35	1007	958	954	951	948	601
45	876	831	834	832	827	646
55	716	682	690	680	683	617
65	535	520	537	578	591	545
75	331	348	431	469	477	434
85	116	219	185	107	85	179
90	0	64	42	17	0	
95	0	58	40	16	0	31
105	0	55	35	14	0	27
115	0	44	40	14	0	24
125	0	33	31	16	0	18
135	0	23	22	12	0	11
145	0	12	15	6	0	5
155	0	0	9	2	0	1
165	0	0	0	0	0	0
175	0	0	0	0	0	0
180	0	0	0	0	0	0

FLUX

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%FIXT
0- 30	922	22.7
0- 40	1523	37.5
0- 60	2786	68.6
0- 90	3943	97.1
90-120	82	2.0
90-130	100	2.5
90-150	116	2.9
90-180	117	2.9
0-180	4061	100.0

EFFICACY (277) = 113.1 lm/W

EFFICACY (120) = 116.0 lm/W **

** THE EFFICACY AT 120 VOLTS IS BASED ON THE LUMENS FROM THIS REPORT AND THE WATTAGE MEASURED AT 120 VOLTS FROM ITL REPORT NUMBER ITL89348-THD.

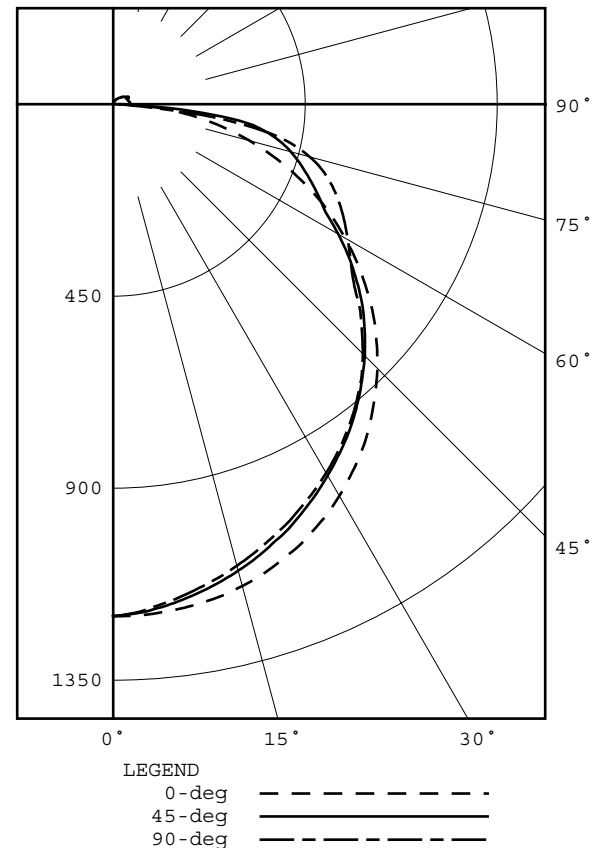
CIE TYPE - DIRECT

PLANE : 0-DEG 90-DEG

SPACING CRITERIA : 1.31 1.24

BEAM ANGLE (50%) : 123.0 X 128.0 DEGREES

FIELD ANGLE (10%) : 169.6 X 168.9 DEGREES





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CANDELA DISTRIBUTION
LATERAL ANGLE

	0.0	22.5	45.0	67.5	90.0
0.0	1200	1200	1200	1200	1200
5.0	1197	1192	1186	1182	1180
10.0	1187	1172	1162	1156	1152
15.0	1169	1143	1132	1124	1120
20.0	1141	1106	1095	1088	1083
25.0	1105	1062	1053	1047	1042
30.0	1060	1013	1005	1001	998
35.0	1007	958	954	951	948
40.0	944	898	896	894	892
45.0	876	831	834	832	827
50.0	800	759	766	761	756
55.0	716	682	690	680	683
60.0	627	602	609	625	635
65.0	535	520	537	578	591
70.0	435	433	484	530	543
75.0	331	348	431	469	477
80.0	225	288	360	368	355
85.0	116	219	185	107	85
90.0	0	64	42	17	0
95.0	0	58	40	16	0
100.0	0	51	37	15	0
105.0	0	55	35	14	0
110.0	0	50	36	14	0
115.0	0	44	40	14	0
120.0	0	39	35	16	0
125.0	0	33	31	16	0
130.0	0	29	26	12	0
135.0	0	23	22	12	0
140.0	0	19	17	8	0
145.0	0	12	15	6	0
150.0	0	5	11	6	0
155.0	0	0	9	2	0
160.0	0	0	4	0	0
165.0	0	0	0	0	0
170.0	0	0	0	0	0
175.0	0	0	0	0	0
180.0	0	0	0	0	0



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5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	29
5- 10	84
10- 15	136
15- 20	184
20- 25	226
25- 30	262
30- 35	290
35- 40	311
40- 45	322
45- 50	324
50- 55	316
55- 60	301
60- 65	283
65- 70	262
70- 75	235
75- 80	199
80- 85	135
85- 90	44
90- 95	16
95-100	15
100-105	14
105-110	13
110-115	13
115-120	11
120-125	10
125-130	8
130-135	6
135-140	5
140-145	3
145-150	2
150-155	1
155-160	0
160-165	0
165-170	0
170-175	0
175-180	0

10-DEGREE
ZONAL LUMEN SUMMARY

0- 10	113
0- 20	433
0- 30	922
0- 40	1523
0- 50	2169
0- 60	2786
0- 70	3331
0- 80	3765
0- 90	3943
0-100	3974
0-110	4001
0-120	4025
0-130	4043
0-140	4054
0-150	4059
0-160	4061
0-170	4061
0-180	4061



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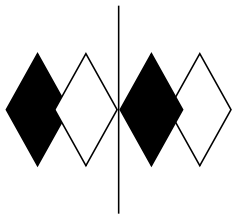
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	118	118	118	118	115	115	115	115	110	110	110	104	104	104	99	99	99	97
1	106	101	96	91	103	98	93	89	93	89	86	89	86	83	85	82	80	77
2	96	86	79	72	93	84	77	71	80	74	69	76	71	67	73	69	65	63
3	87	75	66	59	84	73	65	58	70	63	57	66	60	55	64	58	54	52
4	79	66	57	49	76	64	56	49	62	54	48	59	52	47	56	51	46	43
5	72	59	49	42	70	57	48	42	55	47	41	53	46	40	50	44	40	37
6	67	53	43	36	65	52	43	36	49	42	36	47	40	35	46	39	35	32
7	62	48	38	32	60	47	38	32	45	37	31	43	36	31	41	35	30	28
8	57	43	35	28	56	43	34	28	41	33	28	39	33	28	38	32	27	25
9	54	40	31	25	52	39	31	25	38	30	25	36	30	25	35	29	24	23
10	50	37	28	23	49	36	28	23	35	28	23	34	27	22	33	27	22	20

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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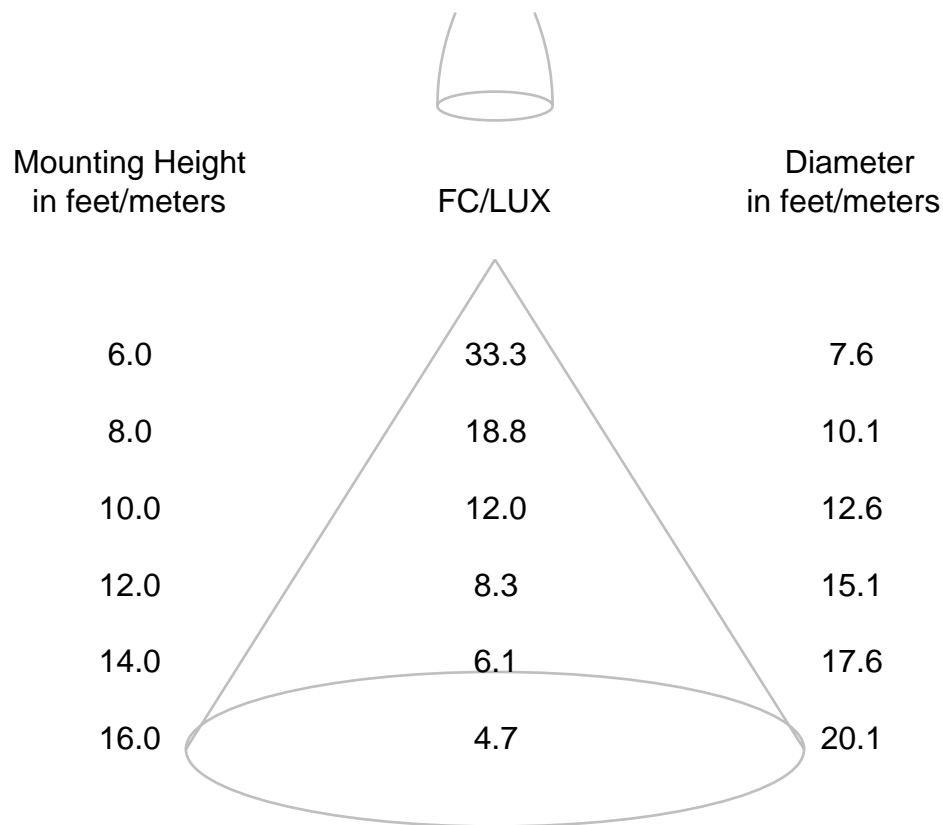
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CONE OF LIGHT DIAGRAM

(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.