



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: IT193256

PAGE: 1 OF 6

ISSUE DATE: 03/23/20

PREPARED FOR: FINELITE, INC.

ADDRESS: 30500 WHIPPLE ROAD

UNION CITY, CA 94587

CATALOG NUMBER: HP-X-R-D-4ft-V-835-F

LUMINAIRE: EXTRUDED WHITE PAINTED METAL HOUSING WITH FABRICATED WHITE PAINTED METAL END CAPS, 2-PIECE FLAT METAL CIRCUIT BOARD MOUNTING PLATE, 4 CIRCUIT BOARDS EACH WITH 120 LEDS, EXTRUDED PLASTIC REFLECTOR/LENS ASSEMBLY WITH WHITE REFLECTOR AND A TRANSLUCENT WHITE FROSTED PLASTIC DIFFUSER. DIFFUSER FROSTED BOTH SIDES.

LAMPS: FOUR HUNDRED EIGHTY WHITE LIGHT EMITTING DIODES (LEDS), VERTICAL BASE-UP POSITION.

INPUT ELECTRICAL: 277.0 VOLTS, 33.3 WATTS, 0.131 AMPS

MOUNTING: RECESSED

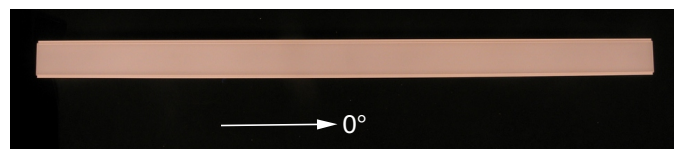
LED DRIVER: OSRAM OTi 50/120-277/1A4 DIM-1 L G2, DRIVER HAS MULTIPLE LEADS, ONLY LINE INPUT AND LED OUTPUT LEADS CONNECTED FOR THIS TEST, CLIENT STATES DRIVER PROGRAMMED FOR 700mA OUTPUT.

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

TEST PROCEDURE: IESNA LM-79-19

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.



Approved R BERGIN

REPORT NUMBER: ITL93256-GONIOPHOTOMETRY

PAGE: 2 OF 6

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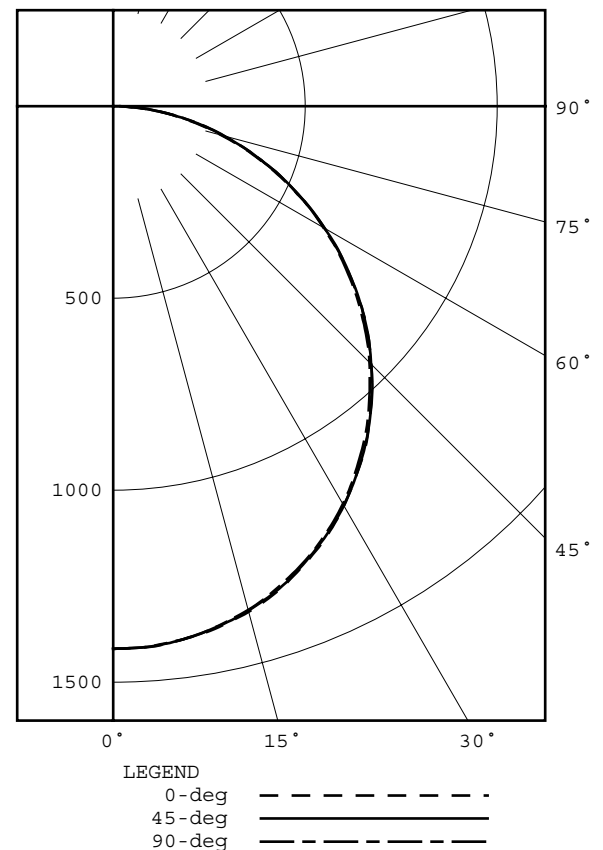
CANDELA DISTRIBUTION						FLUX
	0.0	22.5	45.0	67.5	90.0	
0	1413	1413	1413	1413	1413	
5	1409	1407	1408	1408	1407	134
15	1363	1354	1360	1361	1358	383
25	1267	1253	1264	1264	1261	581
35	1127	1116	1126	1123	1119	702
45	951	945	950	946	944	731
55	746	743	747	743	741	665
65	520	521	523	522	522	517
75	292	295	298	299	300	315
85	89	88	91	91	91	100
90	0	0	0	0	0	

ZONAL LUMEN SUMMARY		
ZONE	LUMENS	%FIXT
0- 30	1098	26.6
0- 40	1800	43.6
0- 60	3196	77.4
0- 90	4127	100.0
90-180	0	0.0
0-180	4127	100.0

EFFICACY (277) = 123.9 lm/W
 EFFICACY (120) = 124.3 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 ITL93256-SPHERE.

CIE TYPE - DIRECT
 PLANE : 0-DEG 90-DEG
 SPACING CRITERIA : 1.26 1.26
 BEAM ANGLE (50%) : 113.7 X 113.3 DEGREES
 FIELD ANGLE (10%) : 164.6 X 165.1 DEGREES
 LUMINOUS LENGTH : 48.000 2.375

LUMINANCE DATA IN CANDELA/SQ M			
ANGLE	AVERAGE	AVERAGE	AVERAGE
IN DEG	0-DEG	45-DEG	90-DEG
45	18286.	18267.	18152.
55	17684.	17707.	17565.
65	16729.	16826.	16794.
75	15340.	15655.	15760.
85	13884.	14196.	14196.





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CANDELA DISTRIBUTION
LATERAL ANGLE

	0.0	22.5	45.0	67.5	90.0
0.0	1413	1413	1413	1413	1413
2.5	1412	1412	1412	1412	1412
5.0	1409	1407	1408	1408	1407
7.5	1400	1399	1400	1399	1400
10.0	1391	1387	1389	1390	1389
12.5	1378	1372	1376	1377	1374
15.0	1363	1354	1360	1361	1358
17.5	1344	1331	1341	1341	1338
20.0	1321	1308	1319	1318	1314
22.5	1294	1282	1292	1293	1289
25.0	1267	1253	1264	1264	1261
27.5	1236	1221	1234	1233	1230
30.0	1202	1189	1201	1198	1196
32.5	1164	1154	1164	1162	1159
35.0	1127	1116	1126	1123	1119
37.5	1087	1076	1086	1082	1079
40.0	1042	1033	1043	1038	1035
42.5	997	990	999	993	989
45.0	951	945	950	946	944
47.5	903	896	903	897	896
50.0	854	847	853	849	845
52.5	799	796	801	796	794
55.0	746	743	747	743	741
57.5	692	689	694	689	689
60.0	636	633	636	634	632
62.5	580	578	581	577	579
65.0	520	521	523	522	522
67.5	464	464	468	465	468
70.0	406	407	410	410	410
72.5	350	351	355	355	354
75.0	292	295	298	299	300
77.5	238	240	245	246	248
80.0	187	189	192	194	194
82.5	137	137	140	142	142
85.0	89	88	91	91	91
87.5	39	39	43	42	43
90.0	0	0	0	0	0



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PAGE: 4 OF 6

5-DEGREE		
ZONAL LUMEN SUMMARY		
0- 5		34
5- 10		100
10- 15		163
15- 20		220
20- 25		270
25- 30		311
30- 35		341
35- 40		360
40- 45		368
45- 50		363
50- 55		346
55- 60		319
60- 65		281
65- 70		236
70- 75		184
75- 80		130
80- 85		76
85- 90		24

10-DEGREE		
ZONAL LUMEN SUMMARY		
0- 10		134
0- 20		517
0- 30		1098
0- 40		1800
0- 50		2531
0- 60		3196
0- 70		3713
0- 80		4028
0- 90		4127



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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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	45	39	50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24

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.

REPORT NUMBER: IT193256-GONIOPHOTOMETRY

PAGE: 6 OF 6

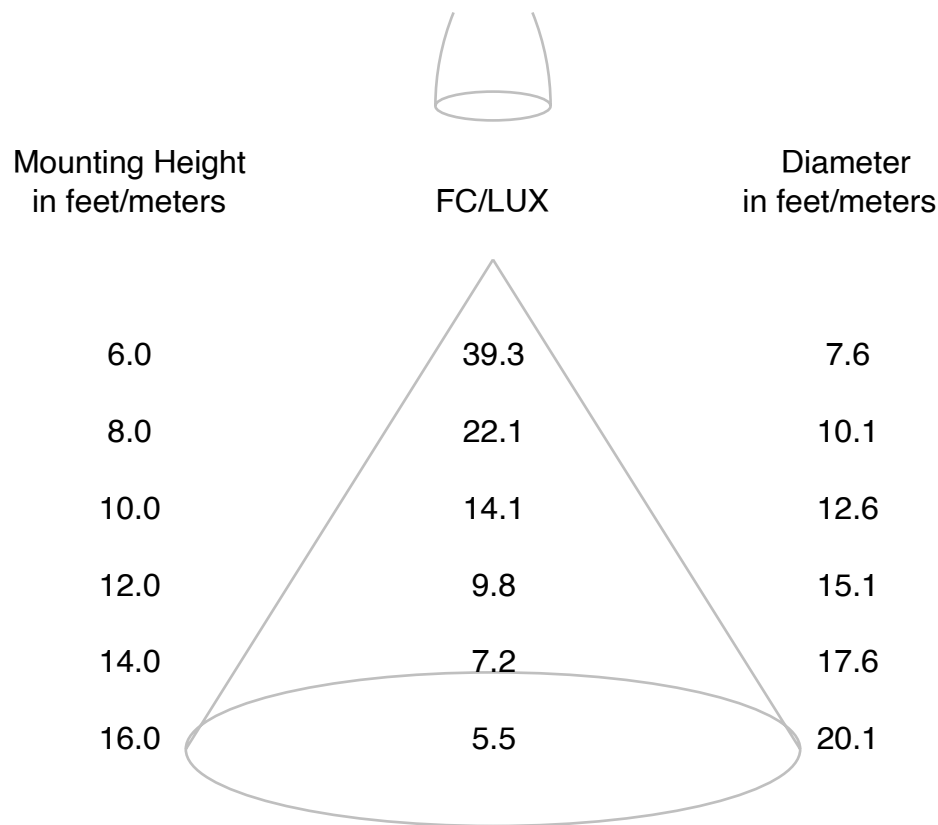
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CONE OF LIGHT DIAGRAM

(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.