

itl boulder
THE LIGHT CENTER OF THE INDUSTRY SINCE 1955

NVLAP
NVLAP LAB CODE: 200925-0

INDEPENDENT TESTING LABORATORIES, INC.
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REPORT NUMBER: ITL85154

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ISSUE DATE: 08/27/15

PREPARED FOR: FINELITE, INC.

CATALOG NUMBER: HPR-LED-F-2X2-DD-V-8-35

LUMINAIRE: FABRICATED METAL HOUSING WITH WHITE PAINTED INTERIOR FINISH, FORMED WHITE PAINTED METAL REFLECTOR AND LED DRIVER COVER, 2 WHITE CIRCUIT BOARDS EACH WITH 80 LEDS, FROSTED HOLOGRAPHIC FLAT PLASTIC LOWER LENS, TRANSLUCENT PLASTIC OVERLAY WITH INTEGRATED MICRO-GRID PATTERN ON TOP SURFACE IN FABRICATED WHITE PAINTED METAL FRAME. LENS FROSTED SIDE DOWN.

LAMPS: ONE HUNDRED SIXTY WHITE LIGHT EMITTING DIODES (LEDs), VERTICAL BASE-UP POSITION.

INPUT ELECTRICAL: 120.0 VOLTS, 58.3 WATTS, 0.487 AMPS

TOTAL REFLECTANCE OF PAINT = 93.1 %

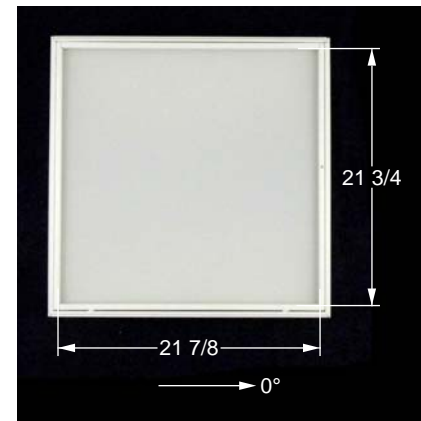
MOUNTING: RECESSED

LED DRIVER: OSRAM OT50W/PRG1400C/UNV/DIM/L, DRIVER HAS MULTIPLE LEADS, ONLY LINE INPUT AND LED OUTPUT LEADS CONNECTED FOR THIS TEST, CLIENT STATES DRIVER PROGRAMMED FOR 1050mA OUTPUT.

NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED AT RATED INPUT VOLTAGE (120VAC, 60Hz) TO THE DRIVER.

TEST PROCEDURE: IESNA LM-79-08

TEST DISTANCE = 20.0 FEET



CANDELA DISTRIBUTION						FLUX
	0.0	22.5	45.0	67.5	90.0	
0	2080	2080	2080	2080	2080	
5	2069	2068	2069	2068	2069	196
15	1964	1965	1966	1967	1968	554
25	1763	1766	1769	1772	1773	814
35	1494	1493	1497	1503	1505	936
45	1180	1179	1185	1191	1194	915
55	862	862	867	873	875	777
65	562	561	565	569	575	561
75	292	293	294	297	297	314
85	77	77	77	78	77	88
90	0	0	0	0	0	

ZONAL LUMEN SUMMARY		
ZONE	LUMENS	%FIXT
0- 30	1564	30.3
0- 40	2500	48.5
0- 60	4191	81.3
0- 90	5154	100.0
90-180	0	0.0
0-180	5154	100.0

EFFICACY (120V) = 88.4 lm/W

EFFICACY (277V) = 89.9 lm/W **

** THE EFFICACY AT 277 VOLTS IS BASED ON THE LUMENS FROM THIS REPORT AND THE WATTAGE MEASURED AT 277 VOLTS FROM ITL REPORT NUMBER ITL85154-THD.

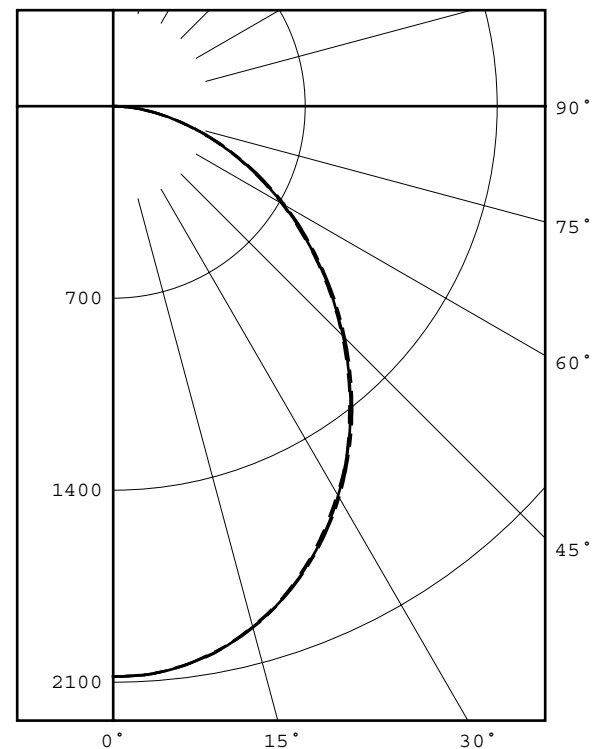
CIE TYPE - DIRECT

PLANE : 0-DEG 90-DEG

SPACING CRITERIA : 1.18 1.18

LUMINOUS LENGTH : 21.875 21.750

LUMINANCE DATA IN CANDELA/SQ M				
ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG	
45	5437.	5460.	5501.	
55	4896.	4924.	4970.	
65	4332.	4355.	4432.	
75	3675.	3701.	3738.	
85	2878.	2878.	2878.	



LEGEND:

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

Checked B. HYRE
Approved R. BEATTIE
Lighting Engineer



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CANDELA DISTRIBUTION LATERAL ANGLE

	0.0	22.5	45.0	67.5	90.0
0.0	2080	2080	2080	2080	2080
2.5	2078	2078	2078	2078	2077
5.0	2069	2068	2069	2068	2069
7.5	2052	2052	2053	2053	2053
10.0	2033	2032	2031	2031	2029
12.5	2001	2001	2002	2002	2002
15.0	1964	1965	1966	1967	1968
17.5	1923	1924	1926	1926	1928
20.0	1875	1876	1879	1880	1881
22.5	1821	1823	1826	1828	1830
25.0	1763	1766	1769	1772	1773
27.5	1699	1703	1707	1710	1712
30.0	1634	1636	1640	1644	1647
32.5	1567	1566	1569	1575	1577
35.0	1494	1493	1497	1503	1505
37.5	1414	1417	1421	1427	1430
40.0	1339	1339	1343	1350	1352
42.5	1259	1259	1265	1270	1273
45.0	1180	1179	1185	1191	1194
47.5	1100	1099	1105	1111	1114
50.0	1020	1020	1026	1031	1034
52.5	941	940	946	951	955
55.0	862	862	867	873	875
57.5	785	785	791	795	801
60.0	709	709	715	718	724
62.5	634	634	638	643	648
65.0	562	561	565	569	575
67.5	491	490	494	497	500
70.0	423	422	424	428	431
72.5	355	356	359	362	364
75.0	292	293	294	297	297
77.5	232	233	234	236	236
80.0	176	177	178	180	179
82.5	124	125	126	127	127
85.0	77	77	77	78	77
87.5	32	32	32	30	28
90.0	0	0	0	0	0



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5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	50
5- 10	147
10- 15	237
15- 20	317
20- 25	382
25- 30	431
30- 35	462
35- 40	474
40- 45	468
45- 50	446
50- 55	411
55- 60	365
60- 65	311
65- 70	250
70- 75	188
75- 80	126
80- 85	69
85- 90	19

10-DEGREE
ZONAL LUMEN SUMMARY

0- 10	196
0- 20	750
0- 30	1564
0- 40	2500
0- 50	3414
0- 60	4191
0- 70	4752
0- 80	5066
0- 90	5154



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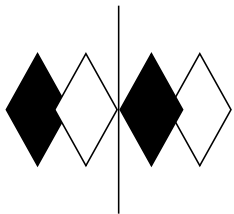
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	49	59	53	48	58	52	47	45
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	36
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26

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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