

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: ITL85144

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ISSUE DATE: 08/19/15

PREPARED FOR: FINELITE, INC.

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

LUMINAIRE: FABRICATED METAL HOUSING WITH WHITE PAINTED INTERIOR FINISH, FORMED WHITE PAINTED METAL REFLECTOR/LED DRIVER COVER, FORMED WHITE PAINTED METAL CIRCUIT BOARD MOUNT, FOUR WHITE CIRCUIT BOARDS EACH WITH 40 LEDS, 3-PIECE FROSTED HOLOGRAPHIC FLAT PLASTIC LENS IN FABRICATED WHITE PAINTED METAL FRAME. LENS FROSTED SIDE OUT.

LAMPS: ONE HUNDRED SIXTY WHITE LIGHT EMITTING DIODES (LEDs), 80 VERTICAL BASE-UP POSITION, 80 TILTED 54-DEGREES FROM VERTICAL BASE-UP POSITION.

INPUT ELECTRICAL: 120.0 VOLTS, 58.3 WATTS, 0.488 AMPS

TOTAL REFLECTANCE OF PAINT = 93.3 %

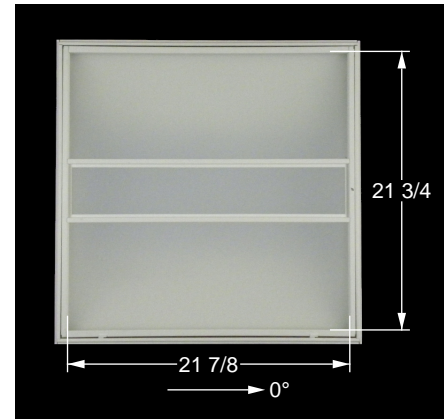
MOUNTING: RECESSED

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

	0.0	22.5	45.0	67.5	90.0	FLUX
0	2149	2149	2149	2149	2149	
5	2139	2139	2139	2139	2139	203
15	2051	2052	2052	2054	2054	579
25	1879	1880	1883	1890	1894	868
35	1645	1643	1649	1662	1665	1033
45	1362	1361	1368	1380	1386	1057
55	1048	1046	1052	1060	1063	941
65	712	708	708	713	718	703
75	370	367	363	365	368	388
85	84	82	78	79	80	97
90	0	0	0	0	0	

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%FIXT
0- 30	1650	28.1
0- 40	2684	45.7
0- 60	4683	79.8
0- 90	5871	100.0
90-180	0	0.0
0-180	5871	100.0

EFFICACY (120V) = 100.7 lm/W

EFFICACY (277V) = 102.5 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 ITL85144-THD.

CIE TYPE - DIRECT

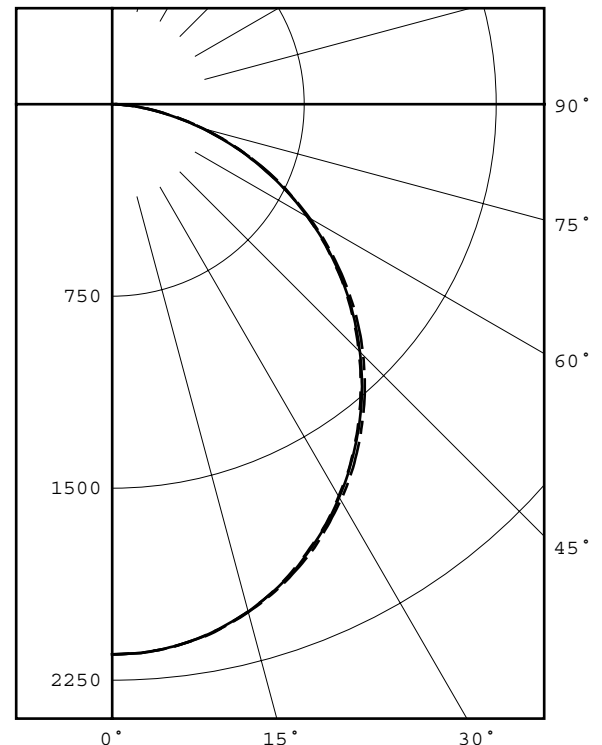
PLANE : 0-DEG 90-DEG

SPACING CRITERIA : 1.23 1.24

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	6275.	6303.	6386.
55	5952.	5975.	6038.
65	5489.	5458.	5535.
75	4657.	4569.	4632.
85	3140.	2916.	2990.



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	2149	2149	2149	2149	2149
2.5	2146	2147	2147	2147	2147
5.0	2139	2139	2139	2139	2139
7.5	2125	2126	2125	2126	2126
10.0	2109	2109	2107	2106	2106
12.5	2082	2082	2081	2082	2083
15.0	2051	2052	2052	2054	2054
17.5	2016	2016	2016	2020	2021
20.0	1975	1975	1978	1981	1983
22.5	1928	1930	1933	1937	1940
25.0	1879	1880	1883	1890	1894
27.5	1828	1826	1831	1839	1840
30.0	1769	1769	1773	1783	1786
32.5	1710	1708	1713	1723	1728
35.0	1645	1643	1649	1662	1665
37.5	1578	1576	1584	1596	1599
40.0	1508	1507	1515	1527	1531
42.5	1436	1435	1443	1454	1460
45.0	1362	1361	1368	1380	1386
47.5	1286	1285	1292	1304	1310
50.0	1209	1207	1214	1226	1230
52.5	1130	1127	1134	1145	1148
55.0	1048	1046	1052	1060	1063
57.5	966	963	969	976	978
60.0	882	879	883	889	891
62.5	798	794	796	801	802
65.0	712	708	708	713	718
67.5	625	623	619	624	629
70.0	539	538	534	536	540
72.5	454	451	447	449	452
75.0	370	367	363	365	368
77.5	289	286	281	284	287
80.0	214	211	206	208	208
82.5	145	142	138	140	141
85.0	84	82	78	79	80
87.5	33	31	29	28	29
90.0	0	0	0	0	0



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5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	51
5- 10	152
10- 15	247
15- 20	332
20- 25	405
25- 30	463
30- 35	505
35- 40	529
40- 45	535
45- 50	523
50- 55	494
55- 60	448
60- 65	388
65- 70	316
70- 75	235
75- 80	153
80- 85	77
85- 90	19

10-DEGREE
ZONAL LUMEN SUMMARY

0- 10	203
0- 20	782
0- 30	1650
0- 40	2684
0- 50	3741
0- 60	4683
0- 70	5386
0- 80	5774
0- 90	5871



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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	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86	84
2	99	91	84	78	96	89	83	78	85	80	76	82	78	74	79	76	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	47	41	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	33	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25

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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