itl boulder
THE LIGHT CENTER OF THE INDUSTRY SINCE 1955
INDEPENDENT TESTING LABORATORIES, INC.
3386 LONGHORN ROAD, BOULDER, CO 80302 USA
PHONE: (303)442-1255 • FAX: (303)449-5274 • E-MAIL: itl@itlboulder.com • WEBSITE: www.itlboulder.com

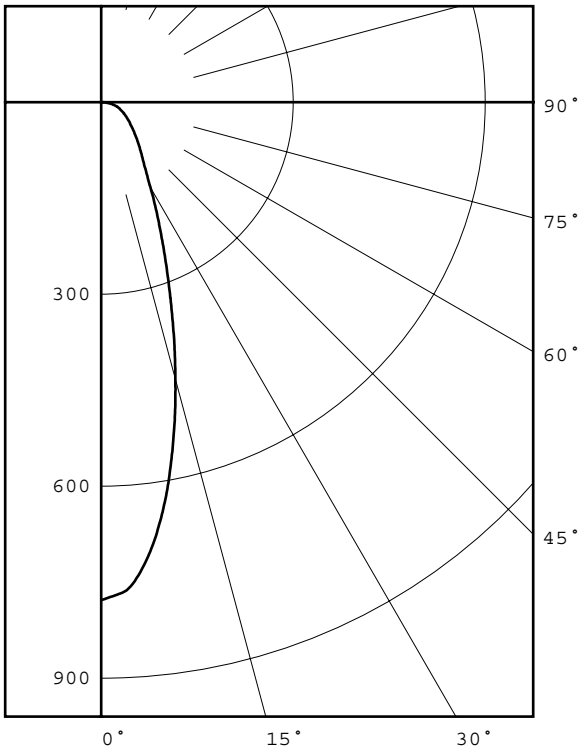
REPORT NUMBER: ITL62951 DATE: 08/19/09
PREPARED FOR: NEXXUS LIGHTING, INC.
CATALOG NUMBER: AE26PAR307NW25
LAMP: ONE PAR-30 STYLE MEDIUM BASE LED LAMP WITH INTEGRAL LED DRIVER, MOLDED FINNED WHITE PLASTIC BODY, ONE WHITE CIRCUIT BOARD WITH 120 VERTICAL BASE-UP WHITE LIGHT EMITTING DIODES (LEDS), MULTIPLE METAL STRIPS BETWEEN UPPER AND LOWER HOUSING, FROSTED FLAT PLASTIC LENS WITH ONE CLEAR OPTIC BELOW EACH LED, VERTICAL BASE-UP POSITION.
TOTAL INPUT WATTS = 7.9 AT 120.0 VOLTS AC
NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED AT RATED INPUT VOLTAGE (120VAC, 60Hz) TO THE LAMP.
TEST PROCEDURE: IESNA LM-79-08
TEST DISTANCE = 25.25 FEET

DEG	CANDELA	LUMENS
0	778	
5	732	67
15	448	124
25	217	101
35	116	74
45	77	60
55	54	48
65	38	37
75	25	26
85	8	9
90	0	

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%FIXT
0- 30	292	53.5
0- 40	365	67.0
0- 60	473	86.7
0- 90	545	100.0
90-180	0	0.0
0-180	545	100.0

EFFICACY = 69.0 Lm/W
CIE TYPE - DIRECT
LUMINAIRE SPACING CRITERION = 0.6
BEAM ANGLE (50%) : 34.1 DEGREES
FIELD ANGLE (10%): 89.5 DEGREES



Checked *N WHITE*
Approved *R BEATTIE*

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CANDELA DISTRIBUTION

	0.0
0.0	778
2.5	767
5.0	732
7.5	675
10.0	604
12.5	526
15.0	448
17.5	376
20.0	312
22.5	260
25.0	217
27.5	183
30.0	154
32.5	132
35.0	116
37.5	104
40.0	94
42.5	85
45.0	77
47.5	70
50.0	64
52.5	58
55.0	54
57.5	49
60.0	45
62.5	41
65.0	38
67.5	34
70.0	31
72.5	28
75.0	25
77.5	21
80.0	17
82.5	13
85.0	8
87.5	4
90.0	0

ZONAL LUMEN SUMMARY

0- 5	18.
5- 10	48.
10- 15	62.
15- 20	62.
20- 25	55.
25- 30	46.
30- 35	39.
35- 40	35.
40- 45	31.
45- 50	28.
50- 55	25.
55- 60	23.
60- 65	20.
65- 70	17.
70- 75	15.
75- 80	11.
80- 85	7.
85- 90	2.

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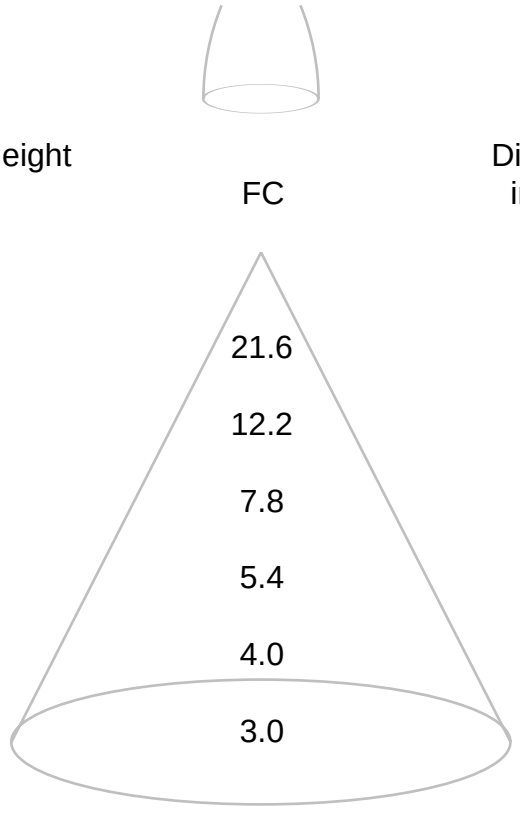
CONE OF LIGHT DIAGRAM

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



Mounting Height in feet	FC	Diameter in feet
6.0	21.6	3.3
8.0	12.2	4.4
10.0	7.8	5.5
12.0	5.4	6.6
14.0	4.0	7.8
16.0	3.0	8.9

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ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINATION

Values based on 5 foot mounting height

REPORT NO.: ITL62951A DATE: 08/22/09
PREPARED FOR: NEXXUS LIGHTING, INC.
CATALOG NUMBER: AE26PAR307NW25
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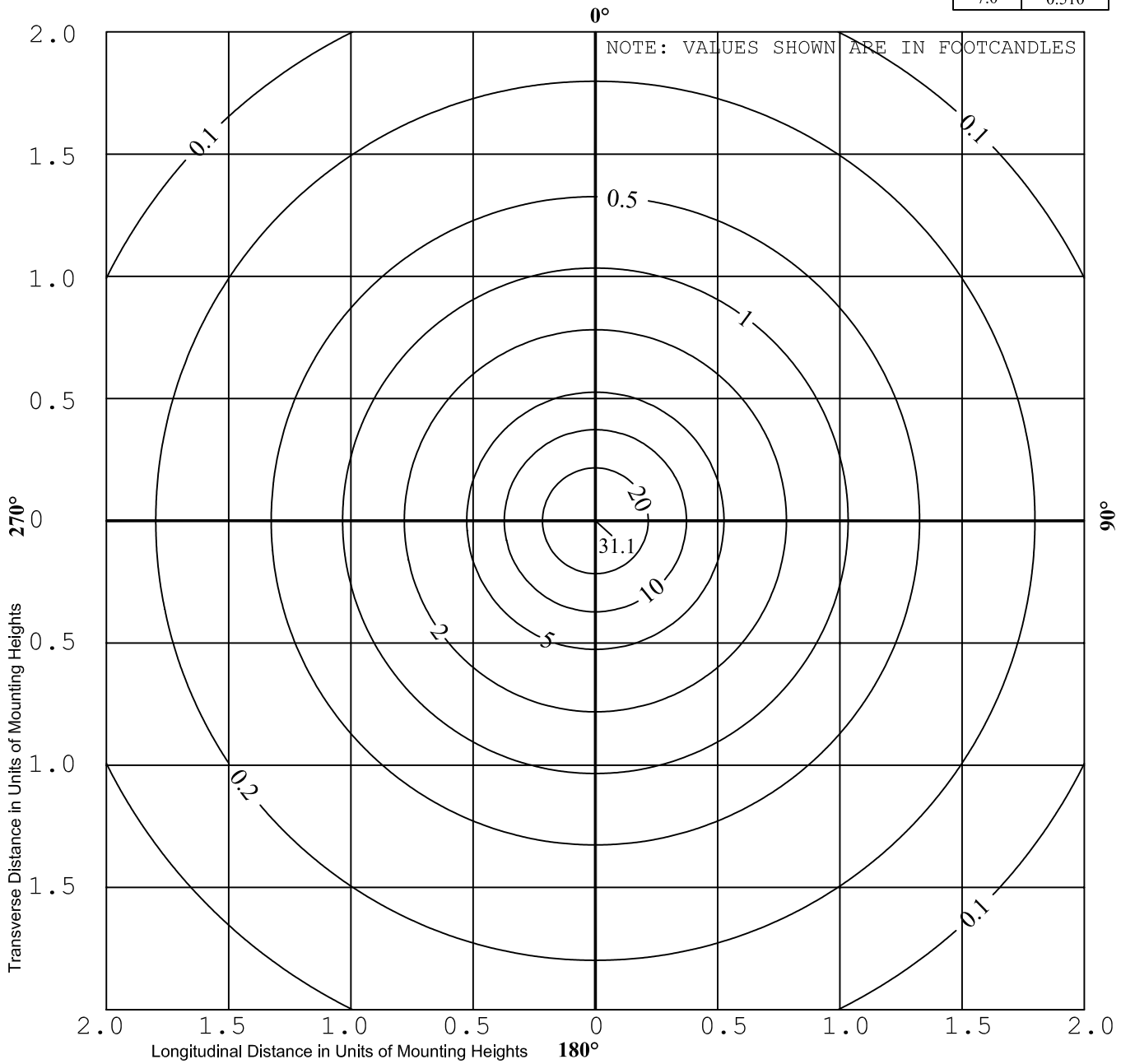
NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED AT RATED INPUT VOLTAGE (120VAC, 60Hz) TO THE LAMP.

Mounting Height Correction Factors	
mtg hgt	corr factor
3.0'	2.778
4.0'	1.563
5.0'	1.000
6.0'	0.694
7.0'	0.510



DIRECT CONTRIBUTION ONLY, NO INTERREFLECTED COMPONENTS (0% REFLECTANCES)

This lighting pattern represents illumination levels calculated from laboratory data taken under controlled condition in accordance with Illuminating Engineering Society approved methods. Actual performance of the manufacturer's luminaire may vary due to conditions including, but not limited to variation in line voltage, tolerance in lamps, and other variable field conditions.

ITL makes every effort to supply our customers with application work that is free from errors and without defects. However, since it is humanly impossible to be without error 100 % of the time, the customer agrees to not hold ITL liable (for any error or defect) for more than the purchase price of these services.

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REPORT NUMBER: ITL62955
DATE: 8/18/09
PREPARED FOR: NEXXUS LIGHTING, INC.

CATALOG NUMBER: AE26PAR307NW25

LAMP: ONE PAR-30 STYLE MEDIUM BASE LED LAMP WITH INTEGRAL LED DRIVER, MOLDED FINNED WHITE PLASTIC BODY, ONE WHITE CIRCUIT BOARD WITH 120 VERTICAL BASE-UP WHITE LIGHT EMITTING DIODES (LEDS), MULTIPLE METAL STRIPS BETWEEN UPPER AND LOWER HOUSING, FROSTED FLAT PLASTIC LENS WITH ONE CLEAR OPTIC BELOW EACH LED, VERTICAL BASE-UP POSITION.

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

INSTRUMENTATION: Kikusui PCR500L AC Power Source
Yokogawa WT210 Digital Power Meter
Optronics OL770 Spectroradiometer
ITL 1.5 Meter Diameter Integrating Sphere

OBJECT OF TEST: Measure the Correlated Color Temperature (CCT), Color Rendering Index (CRI), Chromaticity Coordinates (x,y), ANSI C78.377 Duv, and input electrical parameters.

PROCEDURE: The lamp was provided by customer and the LEDs had an unknown number of burn hours. The lamp was mounted inside the integrating sphere with the lamp in a base up position (LEDS facing down). The lamp was allowed to stabilize at 120 VAC input. After stabilization occurred, CCT, CRI, x/y chromaticity coordinates, ANSI C78.377 Duv, and input electrical data were measured with the lamp operating in the integrating sphere. In order to measure the mean performance, twenty data sets were recorded and averaged within the OL770. Readings were taken with the lamp operating at 120 VAC input in a 25 +/-1 degree Celsius free air ambient and in accordance with IESNA LM-79-08. All data are traceable to the National Institute of Standards and Technology.

RESULTS:

SPECTRORADIOMETRIC	
Observer	CIE 1931 2 degree
Correlated Color Temp CCT (K)	5379
Chromaticity Ordinate x	0.3353
Chromaticity Ordinate y	0.3443
Color Rendering Index (CRI)	77
ANSI C78.377-2008 Duv	0.000
ELECTRICAL	
Input Voltage (Volts AC)	120.0
Input Current (mA AC)	72
Input Power (Watts)	7.9

Checked: *N Gully*
Approved: *R Bergin*