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THE LIGHT CENTER OF THE INDUSTRY SINCE 1955



NVLAP LAB CODE: 200925-0

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

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REPORT NUMBER: ITL88651-GONIOPHOTOMETRY
ISSUE DATE: 12/02/16
PREPARED FOR: PACE ELECTRONICS PRODUCTS
CATALOG NUMBER: PAC0825

PAGE: 1 OF 8

LUMINAIRE: MOLDED WHITE PLASTIC HOUSING WITH 2 DISTINCT OPTICAL COMPARTMENTS, EACH OPTICAL COMPARTMENT CONSISTS OF: ONE CIRCUIT BOARD WITH 12 LEDS, MOLDED WHITE PLASTIC REFLECTOR, CLEAR PRISMATIC PLASTIC LENS WITH NON-PRISMATIC LOWER SECTION. LENS PRISMS IN.

LAMPS: TWENTY-FOUR WHITE LIGHT EMITTING DIODES (LEDS), TILTED 28-DEGREES FROM VERTICAL BASE-UP POSITION.

INPUT ELECTRICAL: 3.60 VOLTS, 1.74 WATTS, 0.485 AMPS

MOUNTING: WALL

LED DRIVER: PACE ELECTRONICS PROPRIETARY

NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED AT CLIENT REQUESTED

INPUT VOLTAGE (3.6VDC) TO THE DRIVER.

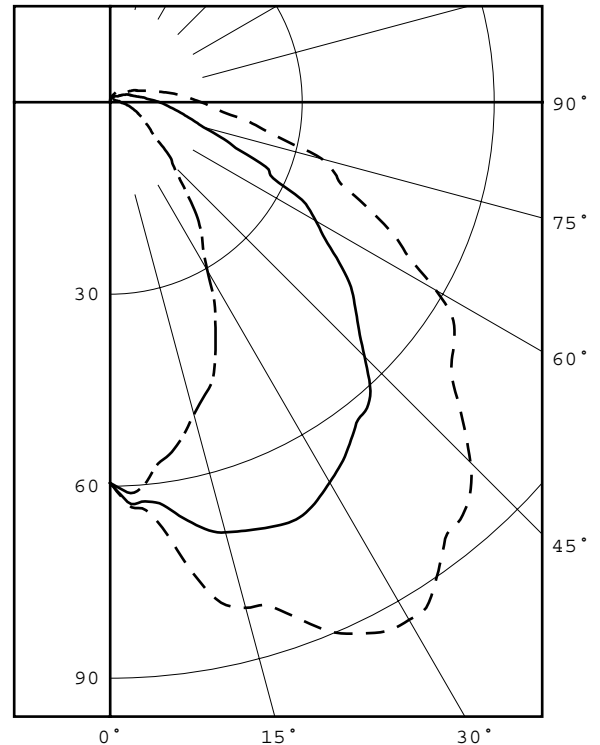
DRIVER INFORMATION PROVIDED BY CLIENT.

TEST PROCEDURE: IESNA LM-79-08

TEST DISTANCE = 20.0 FEET

CANDELA DISTRIBUTION

	0.0	45.0	90.0	135.0	180.0	FLUX
0	59.5	59.5	59.5	59.5	59.5	
5	64.0	62.6	60.1	53.3	49.3	5
15	81.8	69.6	50.5	33.5	26.5	15
25	91.6	71.2	38.9	18.6	11.5	21
35	89.4	65.2	24.8	6.7	3.3	23
45	79.6	56.2	13.9	2.9	0.7	22
55	65.6	43.7	7.8	1.2	0.0	19
65	48.8	28.1	5.3	0.2	0.0	15
75	34.2	15.1	3.5	0.0	0.0	10
85	17.7	9.5	2.1	0.0	0.0	6
90	14.2	7.7	1.7	0.0	0.0	
95	11.4	5.9	1.5	0.0	0.0	4
105	6.8	3.8	0.9	0.0	0.0	2
115	4.4	2.9	0.5	0.0	0.0	1
125	2.7	1.8	0.5	0.2	0.0	1
135	2.2	1.3	0.6	0.3	0.2	1
145	2.0	1.2	0.7	0.4	0.4	1
155	1.5	1.0	0.7	0.5	0.5	0
165	1.1	0.7	0.6	0.5	0.5	0
175	0.4	0.5	0.4	0.3	0.3	0
180	0.2	0.2	0.2	0.2	0.2	0



LEGEND:
0-deg -----
45-deg =====
90-deg -----

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%FIXT
0- 30	41	28.4
0- 40	64	44.2
0- 60	104	72.2
0- 90	134	93.1
90-120	7	5.1
90-130	8	5.7
90-150	9	6.5
90-180	10	6.9
0-180	144	100.0

EFFICACY = 82.8 lm/W

CIE TYPE - DIRECT

PLANE : 0-DEG 90-DEG 180-DEG

SPACING CRITERIA : 1.95 0.92 0.43

BEAM ANGLE (50%) : 72.3 X 39.5 DEGREES

FIELD ANGLE (10%) : 125.5 X 102.9 DEGREES

Checked J. VILLANUEVA
Approved N. WHITE
Lighting Engineer



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CANDELA DISTRIBUTION
LATERAL ANGLE

	0.0	2.5	5.0	7.5	10.0	12.5	15.0	20.0	22.5	25.0	30.0	35.0	40.0	45.0
0.0	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5
2.5	62.9	62.8	62.9	62.9	63.0	63.0	62.9	63.0	62.6	62.8	62.5	62.7	62.6	62.5
5.0	64.0	64.1	64.2	64.1	64.0	64.3	64.1	64.1	63.6	63.8	63.3	63.2	62.8	62.6
7.5	68.1	68.3	68.6	68.1	67.9	68.0	67.4	67.0	66.3	66.2	65.2	64.8	64.1	63.5
10.0	74.8	74.4	74.5	73.8	73.6	73.2	72.6	71.8	70.8	70.6	69.2	68.2	67.1	66.0
12.5	80.1	80.0	79.9	79.3	78.8	78.6	77.9	77.0	75.8	75.1	73.0	71.4	69.7	68.3
15.0	81.8	81.9	82.0	81.8	81.7	81.9	81.1	79.9	78.7	78.2	75.7	73.1	71.1	69.6
17.5	82.5	82.4	83.0	83.2	83.2	83.5	83.1	82.1	80.9	80.1	77.5	74.7	72.3	70.2
20.0	85.8	85.5	84.8	84.6	84.4	84.6	84.4	83.4	82.2	81.4	79.4	77.1	74.1	70.8
22.5	89.5	89.1	88.2	87.2	86.9	87.5	86.9	84.9	83.9	82.9	81.2	78.6	75.3	71.3
25.0	91.6	91.6	90.5	89.4	88.8	88.7	87.1	84.8	84.0	83.2	81.7	78.5	75.0	71.2
27.5	93.2	92.5	91.0	89.9	89.3	88.8	87.4	85.2	84.4	84.1	81.6	78.5	74.0	70.1
30.0	93.4	93.0	91.7	90.4	89.2	88.6	87.6	85.6	84.9	84.5	81.9	78.0	73.2	68.6
32.5	92.7	92.2	90.9	89.5	88.1	87.5	87.0	85.1	84.4	83.4	79.8	75.7	70.9	67.1
35.0	89.4	89.0	87.9	87.0	86.0	85.3	84.9	83.7	82.5	81.0	76.8	72.6	67.9	65.2
37.5	86.0	85.9	85.6	85.2	84.7	84.2	83.7	82.1	80.6	78.6	74.0	70.4	65.6	63.2
40.0	85.1	85.2	85.0	84.4	83.6	82.7	82.2	79.5	77.9	75.4	71.0	67.3	64.1	62.4
42.5	83.2	83.9	83.8	82.3	81.4	79.9	78.9	75.3	73.6	71.7	68.4	64.8	62.0	60.1
45.0	79.6	80.4	79.4	78.2	76.9	75.4	74.1	70.5	69.1	67.9	64.6	61.7	59.0	56.2
47.5	75.0	74.8	73.8	73.2	72.5	71.5	70.2	67.4	66.4	65.1	62.5	59.1	56.4	52.7
50.0	70.4	70.1	69.4	68.9	68.8	68.5	67.3	65.3	64.7	64.0	60.9	57.2	53.7	50.0
52.5	67.2	67.2	66.5	66.1	65.7	64.9	63.9	62.8	62.4	61.8	59.2	54.4	50.3	47.4
55.0	65.6	65.3	64.5	63.7	62.8	61.3	60.4	60.0	59.5	58.5	55.0	50.0	46.7	43.7
57.5	63.6	63.3	62.3	60.9	59.7	58.5	58.0	56.6	55.2	53.3	49.0	45.2	42.8	39.8
60.0	58.8	58.4	57.4	56.8	56.0	54.9	54.3	51.7	49.5	47.5	44.2	42.1	40.6	37.1
62.5	52.7	52.5	52.8	53.1	52.7	51.6	50.6	47.3	45.6	43.8	41.5	40.5	38.5	34.5
65.0	48.8	48.8	49.1	49.4	49.0	47.8	46.9	44.0	43.1	42.2	40.2	38.7	34.8	28.1
67.5	43.9	44.2	43.9	43.9	43.8	43.0	42.9	41.6	40.9	40.5	38.5	36.7	30.0	26.3
70.0	39.0	39.1	39.0	38.9	38.6	38.3	38.3	36.6	36.2	35.7	33.4	29.2	26.8	20.9
72.5	36.8	36.7	36.1	35.7	35.3	34.7	34.2	31.5	30.7	29.6	27.8	24.8	20.7	18.1
75.0	34.2	34.2	33.6	33.0	32.2	30.6	29.6	27.5	27.6	26.6	24.5	20.5	18.4	15.1
77.5	28.3	28.1	27.9	27.4	27.3	27.0	27.0	26.0	25.0	23.7	20.7	18.4	15.5	13.4
80.0	24.2	24.2	24.4	24.6	24.6	24.8	24.3	21.9	20.9	19.2	17.5	15.5	13.7	11.9
82.5	21.3	21.1	20.7	20.3	20.0	19.4	18.7	17.7	17.1	16.6	15.5	13.9	12.4	10.7
85.0	17.7	17.7	17.6	17.4	17.3	17.0	16.5	15.8	15.2	14.9	13.7	12.5	10.9	9.5
87.5	15.9	15.9	15.8	15.6	15.4	15.2	14.9	14.2	13.7	13.3	12.2	11.2	9.8	8.6
90.0	14.2	14.1	14.1	13.9	13.8	13.5	13.4	12.7	12.3	11.9	11.0	9.9	8.7	7.7
92.5	12.7	12.8	12.7	12.6	12.4	12.2	12.0	11.4	11.0	10.7	9.8	8.8	7.7	6.8
95.0	11.4	11.4	11.4	11.3	11.1	10.9	10.6	10.0	9.8	9.4	8.7	7.7	6.8	5.9
97.5	10.1	10.1	10.1	10.0	9.8	9.6	9.4	8.9	8.6	8.3	7.6	6.8	6.0	5.4
100.0	8.8	8.7	8.7	8.6	8.5	8.4	8.2	7.8	7.5	7.2	6.6	5.9	5.3	4.7
102.5	7.7	7.7	7.6	7.5	7.5	7.3	7.2	6.8	6.5	6.3	5.8	5.2	4.7	4.2
105.0	6.8	6.8	6.8	6.7	6.6	6.4	6.3	5.9	5.6	5.4	5.0	4.5	4.2	3.8
107.5	5.9	5.9	5.8	5.8	5.8	5.6	5.4	5.1	5.0	4.7	4.4	4.1	3.8	3.5
110.0	5.2	5.2	5.2	5.1	5.1	4.9	4.8	4.6	4.3	4.2	4.0	3.8	3.5	3.3
112.5	4.7	4.6	4.6	4.6	4.5	4.4	4.3	4.0	3.9	3.8	3.6	3.5	3.2	3.1
115.0	4.4	4.4	4.3	4.3	4.1	4.1	3.9	3.7	3.6	3.5	3.4	3.2	3.1	2.9
117.5	4.0	4.0	3.9	3.9	3.8	3.7	3.6	3.4	3.4	3.4	3.2	3.0	2.7	2.5
120.0	3.4	3.4	3.3	3.3	3.2	3.1	3.1	3.1	3.1	3.0	2.8	2.7	2.5	2.3
122.5	2.9	2.9	2.9	2.9	2.8	2.8	2.9	2.8	2.8	2.7	2.6	2.4	2.2	2.0
125.0	2.7	2.7	2.6	2.6	2.6	2.6	2.6	2.6	2.5	2.4	2.3	2.1	2.0	1.8
127.5	2.3	2.4	2.3	2.3	2.4	2.4	2.3	2.3	2.2	2.2	2.0	1.8	1.8	1.5
130.0	2.3	2.3	2.2	2.2	2.2	2.2	2.2	2.1	2.1	2.0	1.8	1.7	1.6	1.4
132.5	2.3	2.2	2.2	2.2	2.2	2.2	2.1	2.0	2.0	1.9	1.8	1.7	1.5	1.3
135.0	2.2	2.3	2.2	2.2	2.2	2.1	2.1	2.0	1.9	1.9	1.7	1.6	1.5	1.3
137.5	2.2	2.2	2.2	2.1	2.2	2.1	2.1	2.0	1.9	1.9	1.7	1.6	1.4	1.3
140.0	2.1	2.2	2.1	2.1	2.0	2.0	2.0	1.9	1.8	1.7	1.6	1.4	1.3	1.3
142.5	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.8	1.7	1.6	1.5	1.4	1.3	1.2
145.0	2.0	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.7	1.6	1.4	1.3	1.3	1.2
147.5	1.8	1.8	1.8	1.7	1.7	1.7	1.7	1.6	1.6	1.5	1.4	1.3	1.2	1.2
150.0	1.8	1.7	1.7	1.7	1.7	1.6	1.6	1.6	1.6	1.6	1.4	1.3	1.2	1.2
152.5	1.6	1.7	1.7	1.6	1.6	1.5	1.6	1.5	1.5	1.4	1.2	1.2	1.2	1.1
155.0	1.5	1.5	1.5	1.5	1.5	1.5	1.4	1.4	1.3	1.2	1.0	0.9	1.1	1.0
157.5	1.4	1.4	1.4	1.4	1.4	1.5	1.4	1.4	1.3	1.1	0.9	0.9	0.9	0.9



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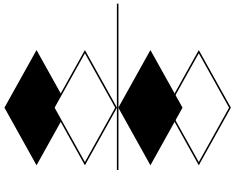
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CANDELA DISTRIBUTION
 LATERAL ANGLE

	0.0	2.5	5.0	7.5	10.0	12.5	15.0	20.0	22.5	25.0	30.0	35.0	40.0	45.0
160.0	1.3	1.3	1.3	1.4	1.3	1.3	1.4	1.3	1.3	1.2	1.0	0.9	0.9	0.8
162.5	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.1	1.1	0.9	0.8	0.8
165.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.0	0.9	0.8	0.7
167.5	1.0	1.0	1.0	1.1	1.0	1.0	1.0	1.0	1.0	1.0	0.9	0.9	0.7	0.7
170.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.7	0.7	0.7	0.7	0.6
172.5	0.6	0.6	0.6	0.6	0.7	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.5
175.0	0.4	0.4	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5
177.5	0.2	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4
180.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2



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CANDELA DISTRIBUTION
 LATERAL ANGLE

	67.5	90.0	112.5	135.0	157.5	180.0
0.0	59.5	59.5	59.5	59.5	59.5	59.5
2.5	62.1	61.0	59.0	57.3	56.3	56.0
5.0	61.5	60.1	57.3	53.3	50.6	49.3
7.5	60.0	57.0	51.8	47.7	45.9	44.0
10.0	59.8	55.5	48.1	44.2	43.9	38.5
12.5	60.7	53.2	47.1	39.3	35.7	31.2
15.0	61.1	50.5	42.8	33.5	28.7	26.5
17.5	61.5	48.4	37.2	27.3	24.0	20.7
20.0	59.9	46.5	35.3	22.7	17.8	20.2
22.5	58.2	42.9	30.7	19.7	17.0	13.6
25.0	56.3	38.9	23.9	18.6	12.1	11.5
27.5	54.3	35.3	22.9	14.0	9.6	8.1
30.0	52.2	30.3	19.9	11.5	7.1	5.9
32.5	49.4	27.0	15.9	9.0	5.3	4.5
35.0	45.9	24.8	13.4	6.7	4.0	3.3
37.5	43.4	22.1	10.8	5.5	3.0	2.4
40.0	40.7	18.7	9.4	4.3	2.2	1.6
42.5	35.1	15.9	7.6	3.6	1.7	1.2
45.0	31.4	13.9	6.5	2.9	1.2	0.7
47.5	28.0	12.7	5.7	2.4	0.8	0.5
50.0	24.1	10.5	5.0	2.0	0.6	0.2
52.5	22.0	8.5	4.4	1.6	0.3	0.1
55.0	19.6	7.8	3.9	1.2	0.1	0.0
57.5	16.6	7.1	3.4	0.8	0.1	0.0
60.0	14.1	6.4	2.9	0.6	0.1	0.0
62.5	12.4	5.8	2.4	0.4	0.0	0.0
65.0	10.3	5.3	2.1	0.2	0.0	0.0
67.5	9.3	4.8	1.7	0.1	0.0	0.0
70.0	8.3	4.4	1.4	0.0	0.0	0.0
72.5	7.6	3.9	1.1	0.0	0.0	0.0
75.0	6.9	3.5	0.8	0.0	0.0	0.0
77.5	6.5	3.2	0.7	0.0	0.0	0.0
80.0	5.9	2.7	0.5	0.0	0.0	0.0
82.5	5.5	2.5	0.6	0.0	0.0	0.0
85.0	5.1	2.1	0.5	0.0	0.0	0.0
87.5	4.7	1.8	0.5	0.0	0.0	0.0
90.0	4.2	1.7	0.4	0.0	0.0	0.0
92.5	3.8	1.6	0.4	0.0	0.0	0.0
95.0	3.3	1.5	0.3	0.0	0.0	0.0
97.5	2.9	1.3	0.3	0.0	0.0	0.0
100.0	2.7	1.2	0.2	0.0	0.0	0.0
102.5	2.5	1.1	0.2	0.0	0.0	0.0
105.0	2.3	0.9	0.2	0.0	0.0	0.0
107.5	2.2	0.8	0.2	0.0	0.0	0.0
110.0	2.0	0.7	0.2	0.0	0.0	0.0
112.5	1.8	0.6	0.2	0.0	0.0	0.0
115.0	1.5	0.5	0.2	0.0	0.0	0.0
117.5	1.4	0.5	0.2	0.0	0.0	0.0
120.0	1.2	0.4	0.2	0.1	0.0	0.0
122.5	1.1	0.5	0.3	0.1	0.0	0.0
125.0	1.0	0.5	0.3	0.2	0.0	0.0
127.5	0.9	0.5	0.2	0.2	0.1	0.1
130.0	0.8	0.5	0.3	0.2	0.2	0.2
132.5	0.8	0.5	0.3	0.3	0.2	0.2
135.0	0.9	0.6	0.4	0.3	0.3	0.2
137.5	0.9	0.7	0.4	0.4	0.3	0.4
140.0	0.9	0.6	0.4	0.4	0.4	0.4
142.5	0.8	0.6	0.4	0.4	0.3	0.4
145.0	0.9	0.7	0.5	0.4	0.4	0.4
147.5	0.9	0.7	0.5	0.4	0.4	0.4
150.0	1.0	0.7	0.5	0.4	0.4	0.5
152.5	0.9	0.7	0.6	0.4	0.5	0.5
155.0	0.8	0.7	0.5	0.5	0.4	0.5
157.5	0.8	0.7	0.6	0.5	0.5	0.5



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CANDELA DISTRIBUTION
LATERAL ANGLE

	67.5	90.0	112.5	135.0	157.5	180.0
160.0	0.8	0.7	0.6	0.5	0.6	0.6
162.5	0.7	0.6	0.5	0.5	0.5	0.6
165.0	0.6	0.6	0.4	0.5	0.5	0.5
167.5	0.6	0.5	0.5	0.5	0.6	0.5
170.0	0.6	0.5	0.5	0.4	0.5	0.6
172.5	0.5	0.4	0.4	0.4	0.4	0.4
175.0	0.5	0.4	0.4	0.3	0.3	0.3
177.5	0.5	0.5	0.4	0.4	0.3	0.2
180.0	0.2	0.2	0.2	0.2	0.2	0.2



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5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	1
5- 10	4
10- 15	6
15- 20	8
20- 25	10
25- 30	11
30- 35	11
35- 40	11
40- 45	11
45- 50	10
50- 55	10
55- 60	9
60- 65	8
65- 70	7
70- 75	5
75- 80	4
80- 85	3
85- 90	3
90- 95	2
95-100	2
100-105	1
105-110	1
110-115	1
115-120	1
120-125	0
125-130	0
130-135	0
135-140	0
140-145	0
145-150	0
150-155	0
155-160	0
160-165	0
165-170	0
170-175	0
175-180	0

10-DEGREE
ZONAL LUMEN SUMMARY

0- 10	5
0- 20	20
0- 30	41
0- 40	64
0- 50	85
0- 60	104
0- 70	118
0- 80	128
0- 90	134
0-100	138
0-110	140
0-120	141
0-130	142
0-140	143
0-150	143
0-160	144
0-170	144
0-180	144



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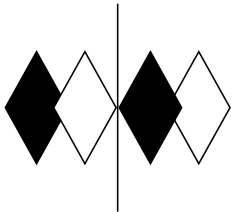
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	117	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	93
1	107	102	97	93	103	99	95	91	93	90	87	88	85	83	83	81	79	77	77
2	97	89	82	76	94	86	80	75	82	76	72	77	73	69	73	70	67	64	64
3	89	78	70	64	86	76	69	63	72	66	61	69	63	59	65	61	57	54	54
4	81	70	61	54	79	68	60	54	65	58	52	61	55	51	58	53	49	47	47
5	75	63	54	47	73	61	53	47	58	51	45	55	49	44	53	48	43	41	41
6	70	57	48	42	67	55	47	41	53	46	40	50	44	39	48	43	38	36	36
7	65	51	43	37	63	50	42	37	48	41	36	46	40	35	44	39	34	32	32
8	60	47	39	33	58	46	38	33	44	37	32	43	36	32	41	35	31	29	29
9	57	43	35	30	55	43	35	30	41	34	29	39	33	29	38	32	28	26	26
10	53	40	32	27	51	39	32	27	38	31	27	37	31	26	35	30	26	24	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.

NOTE: THE ZONAL CAVITY CALCULATION TECHNIQUE IS ACCURATE WHEN LUMINAIRES WITH SYMMETRIC CANDELA DISTRIBUTIONS ARE EMPLOYED AND WHEN THE LUMINAIRES ARE LOCATED SYMMETRICALLY THROUGHOUT THE ROOM. THIS UNIT HAS SPECIAL CHARACTERISTICS AND THEREFORE THESE COEFFICIENTS SHOULD BE USED WITH CAUTION.



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