

2.0 AC DOB LED  
**STREET LIGHT**

SPECIFICATION SHEET

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2.0G AC DOB LED Street Light 20W

2 0 W

# 2.0G AC DOB LED STREET LIGHTS

## 01

### AC DOB LED SOLUTION

- No SMPS.
- Drive LED light with AC IC Driver without using existing DC/AC SMS
- The world's first line up of Outdoor Light AC LED Series

## 03

### RESPOND OF VARIOUS VOLTAGE

- Possess the world's first correspondent solution in AC LED Lights in 110V, 227V, etc

## 05

### THE WORLD'S FIRST MCU DIMMING TECHNOLOGY

- Possess the world's first dimming solution at lowest price in AC LED lightning via MCU (Micro Computer Unit). a spherical surface optical technology and injection.

## 07

### OUR ADVANTAGE IS THAT OUR PRODUCT IS EXTREMELY LIGHT

- Installing the lights are very easy because it is extremely light weight

## 02

### CUSTOMIZED HEAT SINK AND LIGHT FIXTURE

- Secure AC DOB LED Light technology to keep LED package Tc temperature 70° C

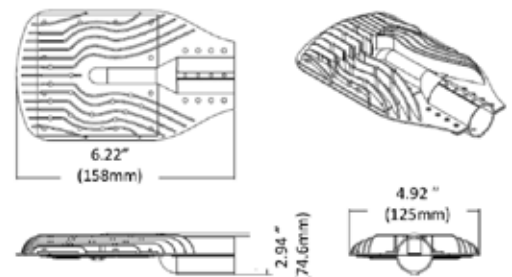
## 04

### CONVERGENCE OF AC DOB NANO OPTIC

- Secure light distribution using a spherical surface optical technology
- Possess technologies related to lens construction, molding and injection.

## 06

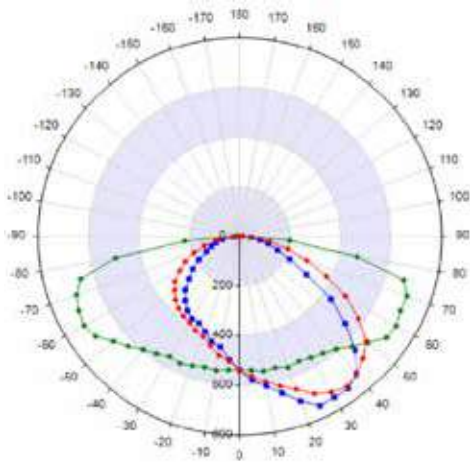
### OPERATING TEMP RANGE -45° C TO 70° C



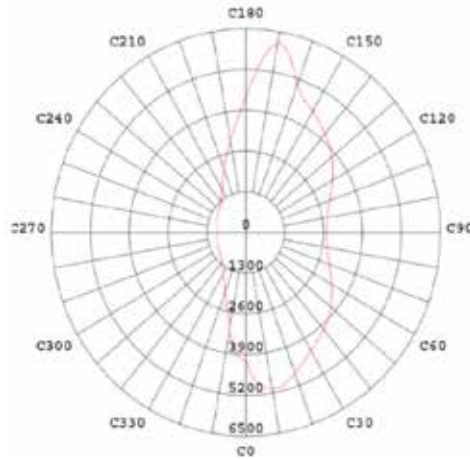
Mounting	Optic	Input power Designator	CCT	Voltage	Light Efficiency	IP	CRI
Horizontal Tennon	Type II Medium	20W	5.000K	110V, 220V, 277V, 480V	120lm/W	67	Ra70

# PHOTOMETRY

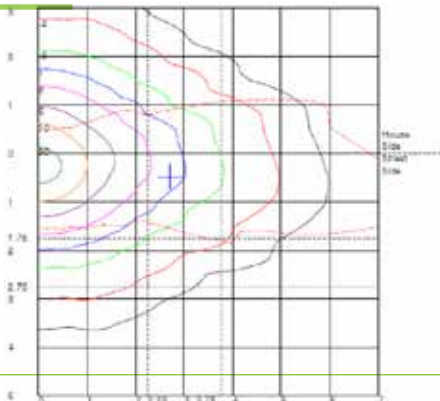
## INTENSITY DISTRIBUTION DIAGRAM



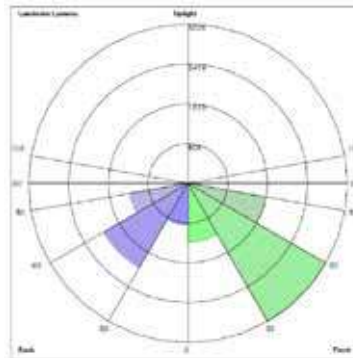
## MAX INTENSITY CONE SURFACE DISTRIBUTION DIAGRAM



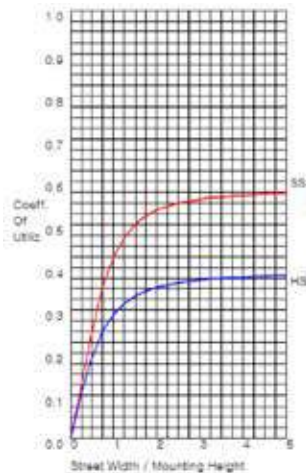
## ISO FOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



## LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



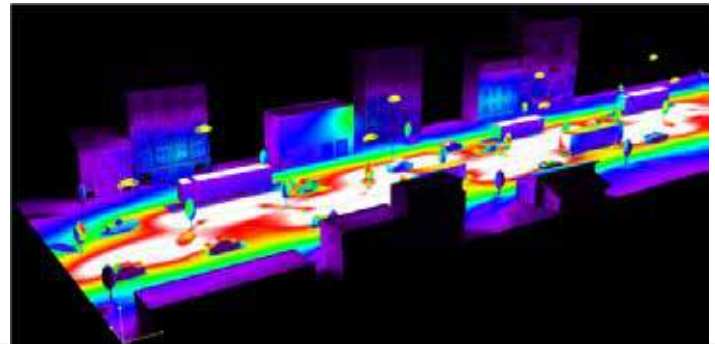
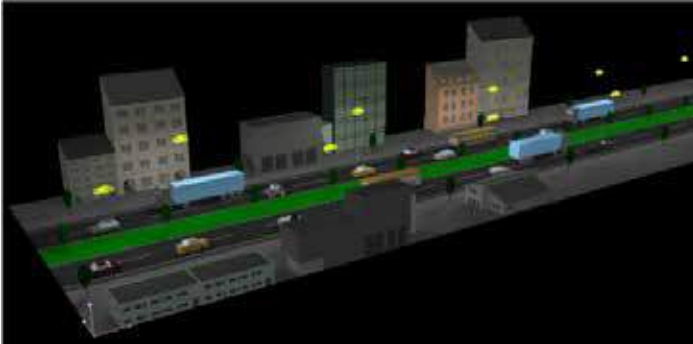
## COEFFICIENTS OF UTILIZATION



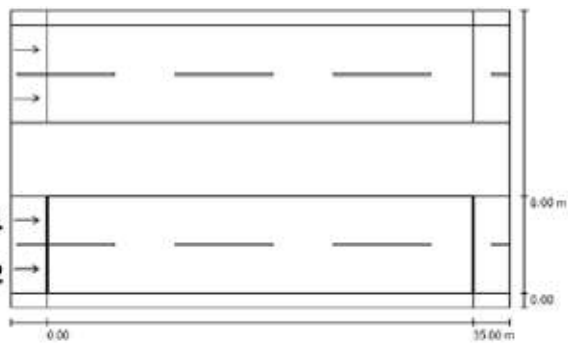
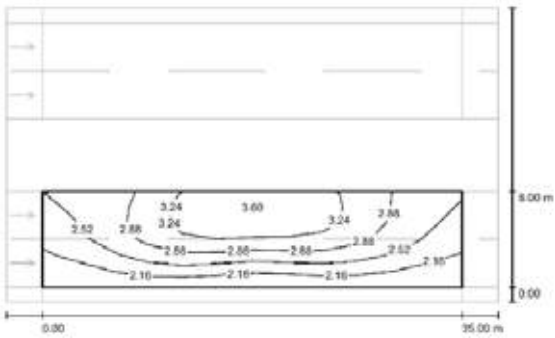
Roadway summary	Lumens	Percent of lamp
Downward Street Side	1439.2	60
Downward House Side	954.8	39.8
Downward Total	2394.0	99.8
Upward Street Side	1.7	0.1
Upward House Side	0.8	0.0
Upward Total	2.5	0.1
Tot Flux	2396.5	99.9

# PHOTOMETRY SIMULATION

ADDRESS: 1628 NW 82ND AVE, DORAL, FL ,UNITED STATES.



## RESULT OF SIMULATION IN DIALUX



Light loss factor: 0.67  
 Grid: 12 x 6 Points  
 Accompanying Street Elements: 216, 1  
 Lumen: 83, 40 0.070

## SIMULATION CONDITION

- Wattage: 20W
- Double Row, with offset
- Pole distance: 35m
- Mounting height: 12m
- Total Road Width: 16m (4 lanes)

Emin	Emax	Eav	Emin/Emax
1.83	3.62	2.72	0.674

	Lav	UO	UI	TI
Observer1	0.20	0.77	0.75	7
Observer2	0.20	0.58	0.92	6

2.0G AC DOB LED Street Light 20W

4 5 W

# 2.0G AC DOB LED STREET LIGHTS

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### CUSTOMIZED HEAT SINK AND LIGHT FIXTURE

- Secure AC DOB LED Light technology to keep LED package Tc temperature 70° C

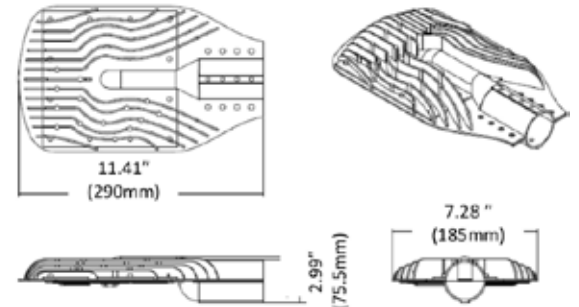
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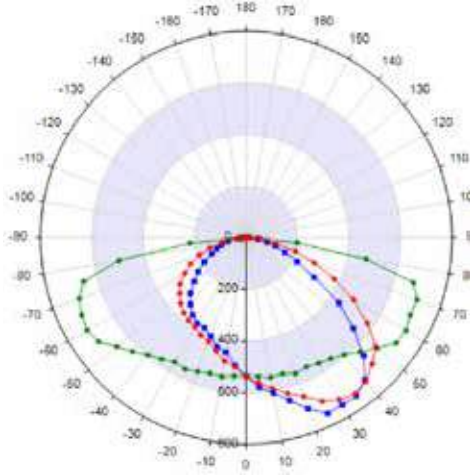
### OPERATING TEMP RANGE -45° C TO 70° C



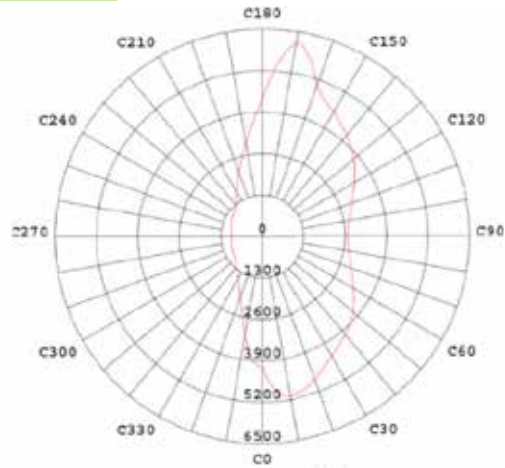
Mounting	Optic	Input power Designator	CCT	Voltage	Light Efficiency	IP	CRI
Horizontal Tennon	Type II Medium	45W	5.000K	110V, 220V, 277V, 480V	120lm/W	67	Ra70

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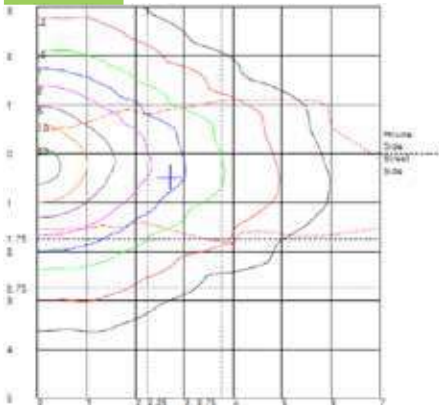
## INTENSITY DISTRIBUTION DIAGRAM



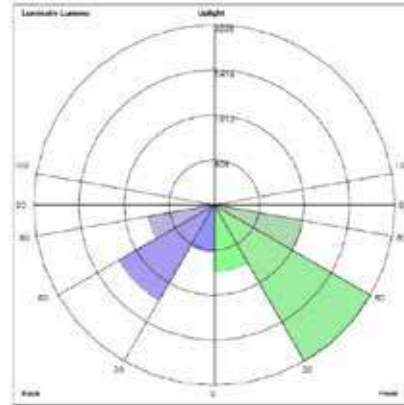
## MAX INTENSITY CONE SURFACE DISTRIBUTION DIAGRAM



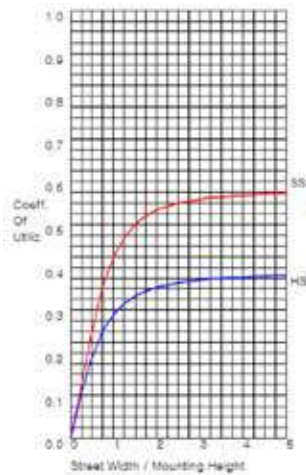
## ISO FOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



## LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



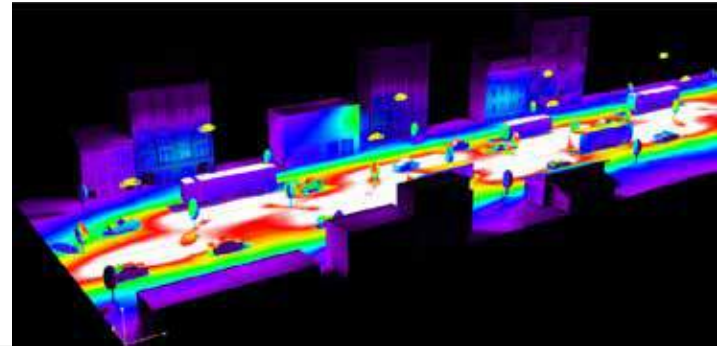
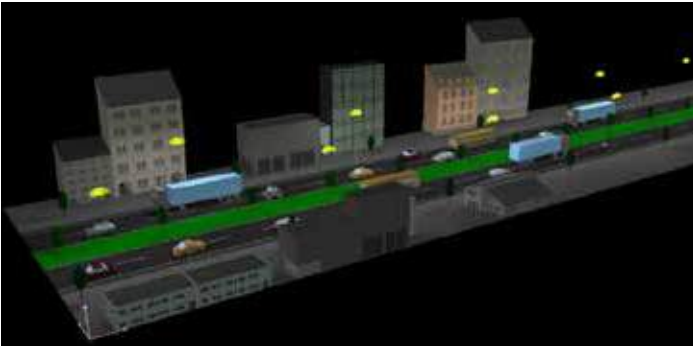
## COEFFICIENTS OF UTILIZATION



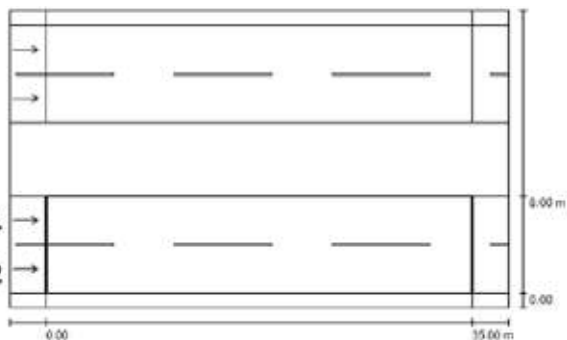
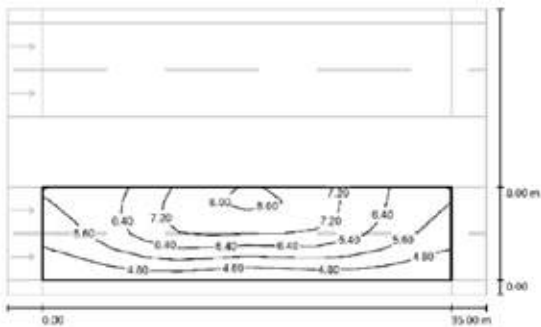
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 Grid: 12 x 6 Points  
 Accompanying Street Elements: R16, 1  
 Linaire: R3, q0 0.070

## SIMULATION CONDITION

- Wattage: 45W
- Double Row, with offset
- Pole distance: 35m
- Mounting height: 12m
- Total Road Width: 16m (4 lanes)

Emin	Emax	Eav	Emin/Emax
4.12	8.14	6.11	0.674

	Lav	UO	UI	TI
Observer1	0.44	0.77	0.75	8
Observer2	0.45	0.58	0.92	7

2.0G AC DOB LED Street Light 20W

9 0 W

# 2.0G AC DOB LED STREET LIGHTS 90W

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### AC DOB LED SOLUTION

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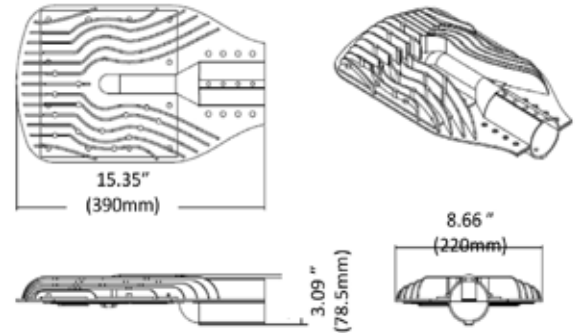
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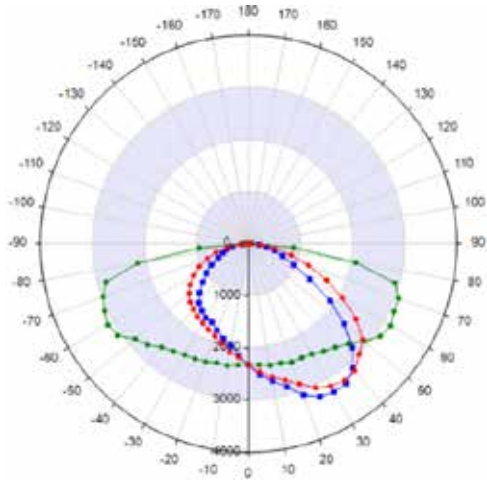
### OPERATING TEMP RANGE -45° C TO 70° C



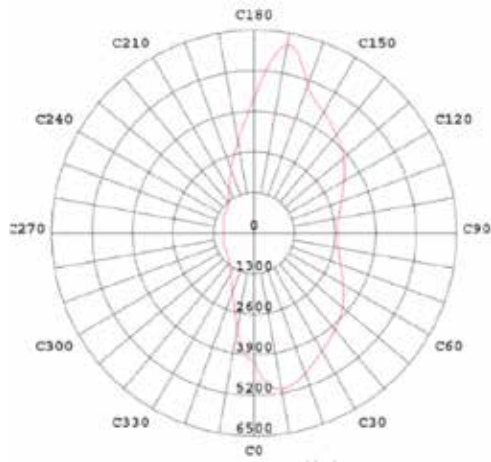
Mounting	Optic	Input power Designator	CCT	Voltage	Light Efficiency	IP	CRI
Horizontal Tennon	Type II Medium	90W	5.000K	110V, 220V, 277V, 480V	120lm/W	67	Ra70

# PHOTOMETRY

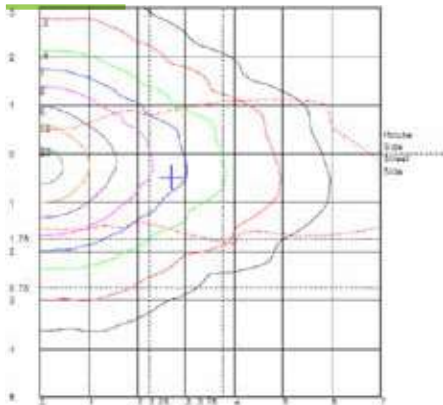
## INTENSITY DISTRIBUTION DIAGRAM



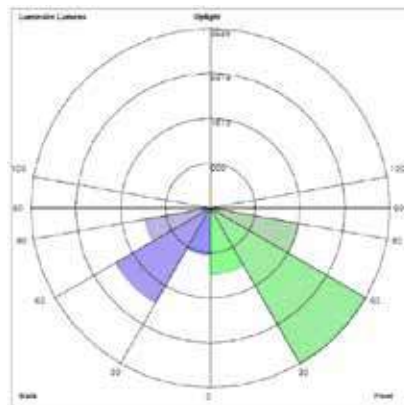
## MAX INTENSITY CONE SURFACE DISTRIBUTION DIAGRAM



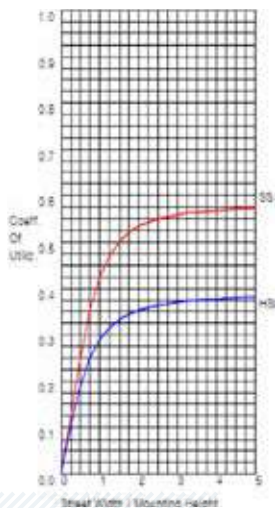
## ISO FOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



## LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



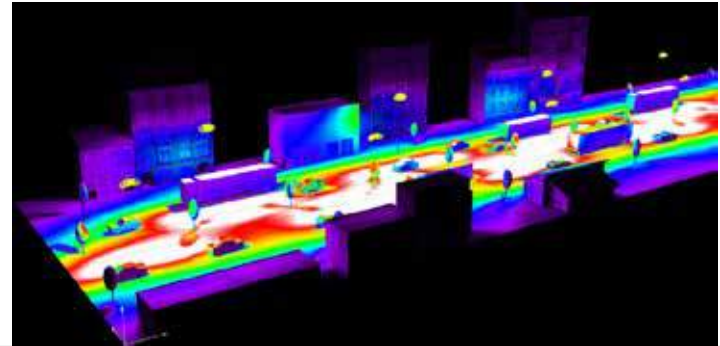
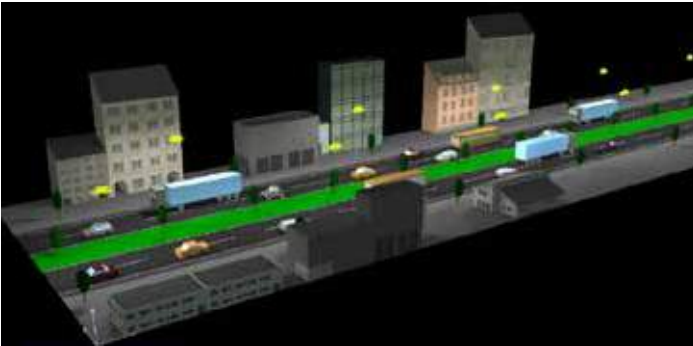
## COEFFICIENTS OF UTILIZATION



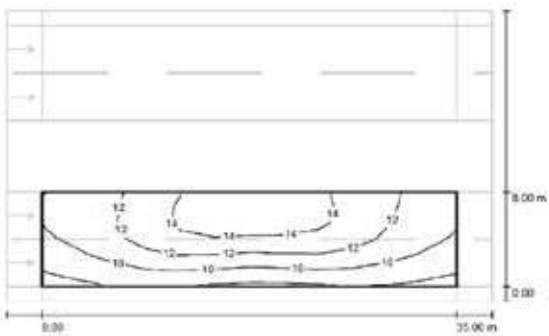
Roadway summary	Lumens	Percent of lamp
Downward Street Side	6296.8	58.2
Downward House Side	4136.2	38.6
Downward Total	10433	96.9
Upward Street Side	7.4	0.1
Upward House Side	3.7	0.0
Upward Total	11.1	0.1
Tot Flux	10444.1	97

# PHOTOMETRY SIMULATION

ADDRESS: 1628 NW 82ND AVE, DORAL, FL ,UNITED STATES.



## RESULT OF SIMULATION IN DIALUX



Light loss factor: 0.67  
 Grid: 12 x 6 Points  
 Accompanying Street Elements: 216, 1  
 Lumen: 83, 40 0.070

## SIMULATION CONDITION

- Wattage: 90W
- Double Row, with offset
- Pole distance: 35m
- Mounting height: 12m
- Total Road Width: 16m (4 lanes)

Emin	Emax	Eav	Emin/Emax
7.83	15	12	0.506

	Lav	UO	UI	TI
Observer1	0.84	0.77	0.75	9
Observer2	0.86	0.58	0.92	8

2.0G AC DOB LED Street Light 135W

1 3 5 W

# 2.0G AC DOB LED STREET LIGHTS 135W

## 01

### AC DOB LED SOLUTION

- No SMPS.
- Drive LED light with AC IC Driver without using existing DC/AC SMS
- The world's first line up of Outdoor Light AC LED Series

## 03

### RESPONDS TO VARIOUS VOLTAGES

- Possess the world's first correspondent solution in AC LED Lights in 110V, 227V, etc

## 05

### THE WORLD'S FIRST MCU

### DIMMING TECHNOLOGY

- Possess the world's first dimming solution at lowest price in AC LED lightning via MCU (Micro Computer Unit.a spherical surface optical technology and injection.

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## 02

### CUSTOMIZED HEAT SINK AND LIGHT

### FIXTURE

- Secure AC DOB LED Light technology to keep LED package Tc temperature 70° C

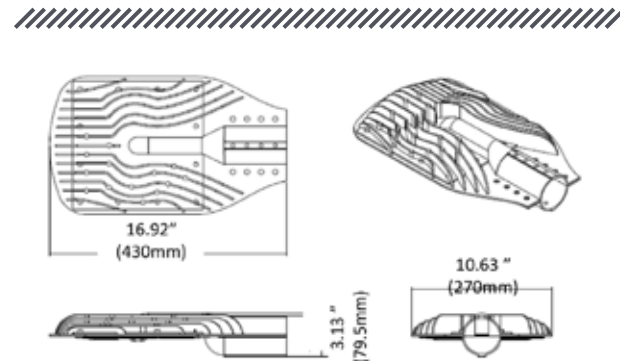
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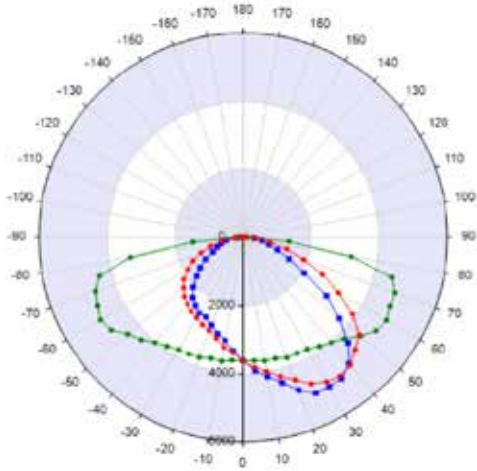
### OPERATING TEMP RANGE -45° C TO 70° C



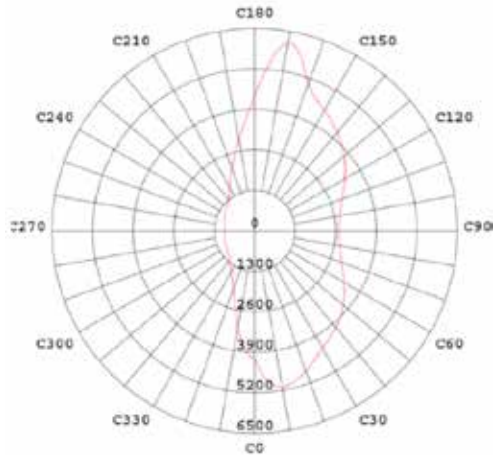
Mounting	Optic	Input power Designator	CCT	Voltage	Light Efficiency	IP	CRI
Horizontal Tennon	Type II Medium	135W	5,000K	110V, 220V, 277V, 480V	120lm/W	67	Ra70

# PHOTOMETRY

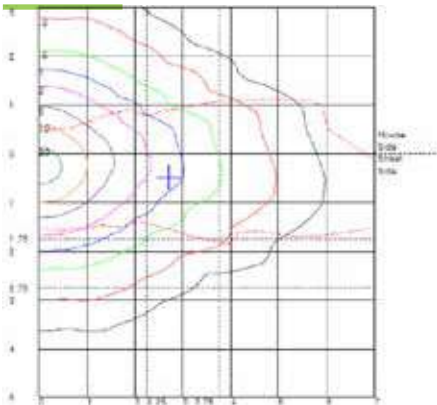
## INTENSITY DISTRIBUTION DIAGRAM



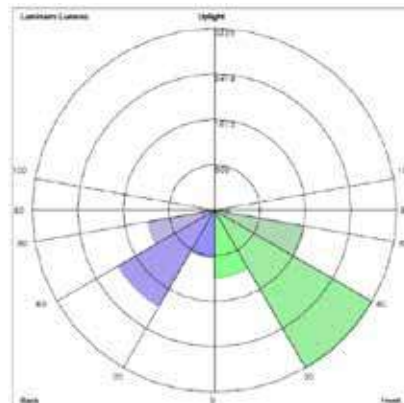
## MAX INTENSITY CONE SURFACE DISTRIBUTION DIAGRAM



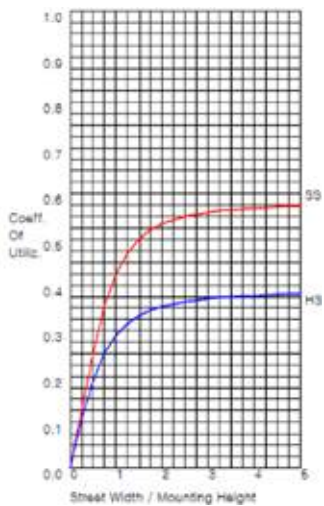
## ISO FOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



## LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



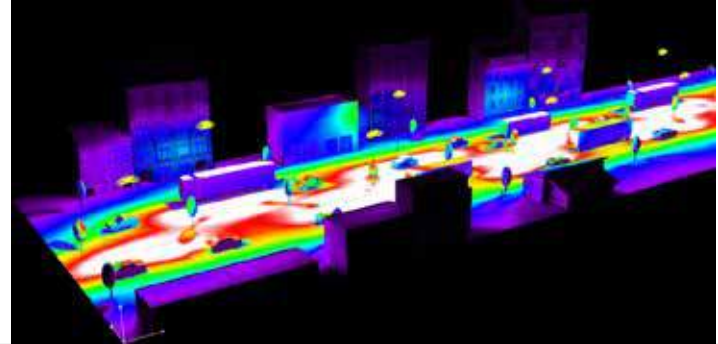
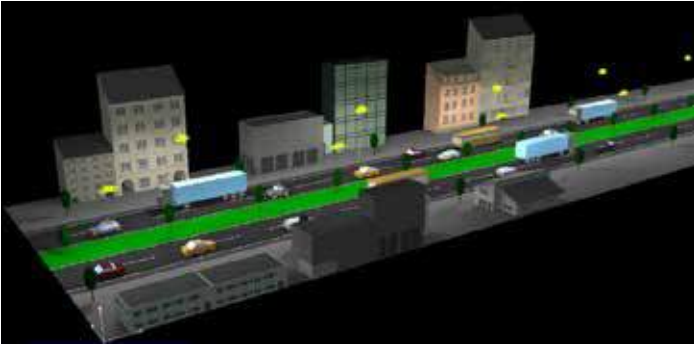
## COEFFICIENTS OF UTILIZATION



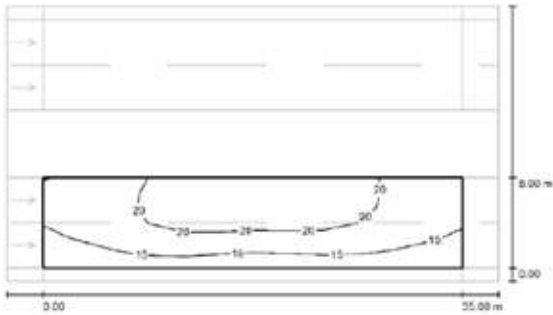
Roadway summary	Lumens	Percent of lamp
Downward Street Side	9711.2	59.9
Downward House Side	6447.4	39.8
Downward Total	16158.6	99.7
Upward Street Side	11.5	0.1
Upward House Side	5.7	0.0
Upward Total	17.2	0.1
Tot Flux	16175.8	99.9

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## RESULT OF SIMULATION IN DIALUX



Light loss factor: 0.67  
 Grid: 12 x 6 Points  
 Accompanying Street Elements: 216, 1  
 Lumen: 83, 40 0.070

## SIMULATION CONDITION

- Wattage: 135W
- Double Row, with offset
- Pole distance: 35m
- Mounting height: 12m
- Total Road Width: 16m (4 lanes)

Emin	Emax	Eav	Emin/Emax
12	24	18	0.506

	Lav	UO	UI	TI
Observer1	1.33	0.77	0.75	9
Observer2	1.36	0.58	0.92	8

2.0G AC DOB LED Street Light 135W

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# 2.0G AC DOB LED STREET LIGHTS 180W

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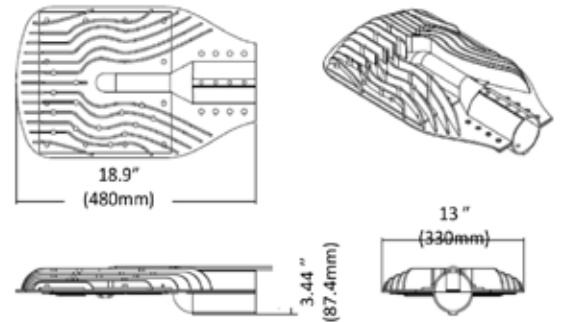
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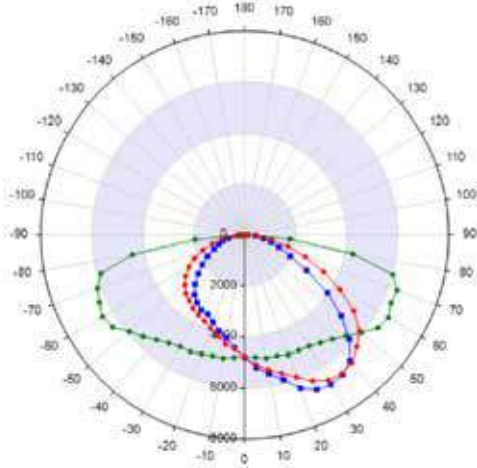
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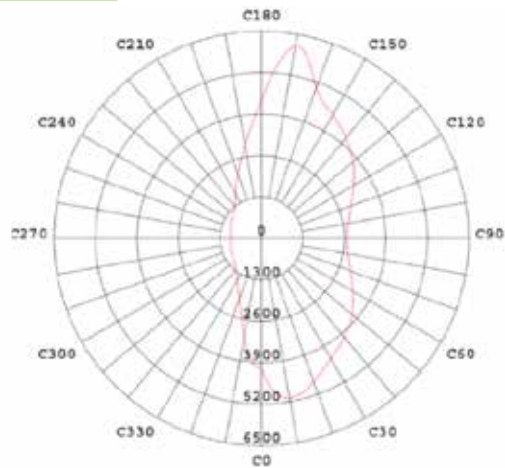
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Horizontal Tennon	Type II Medium	180W	5.000K	110V, 220V, 277V, 480V	120lm/W	67	Ra70

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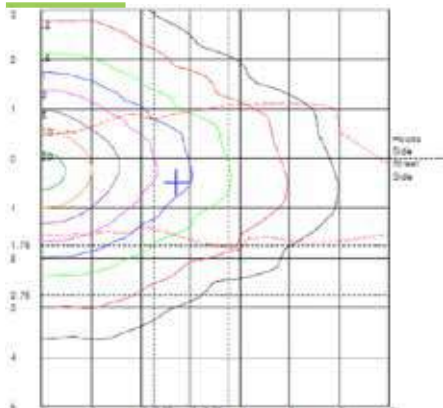
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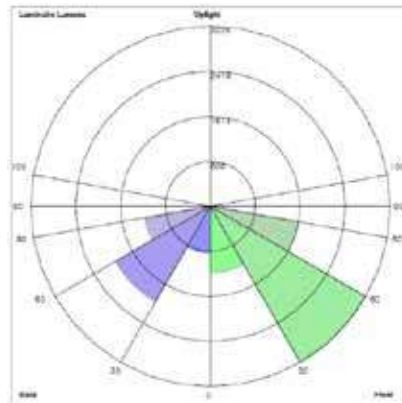
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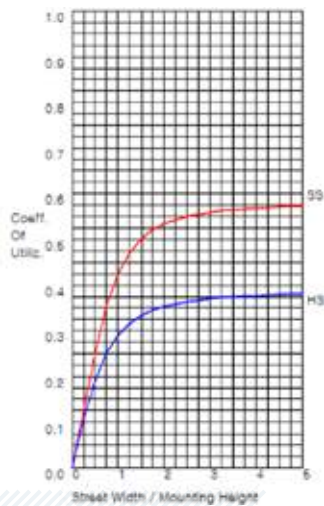
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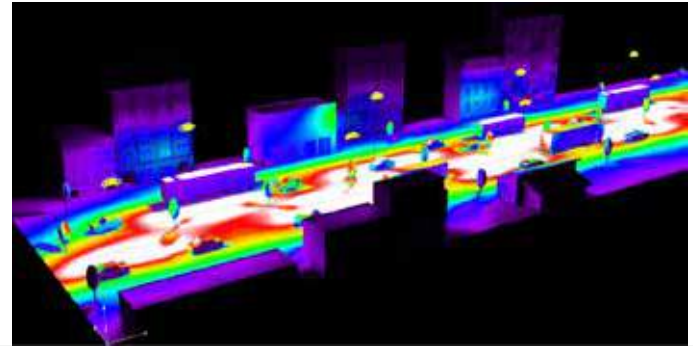
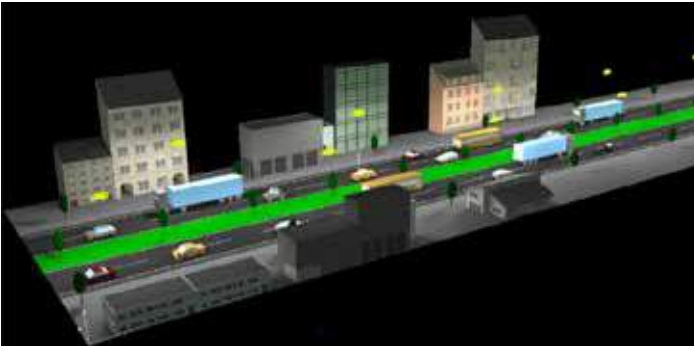
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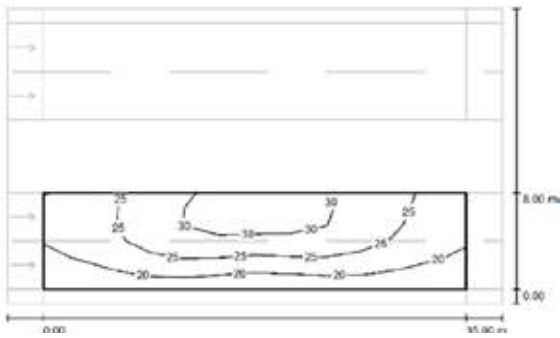
Roadway summary	Lumens	Percent of lamp
Downward Street Side	12945.6	59.9
Downward House Side	8598.1	39.8
Downward Total	21543.7	99.7
Upward Street Side	15.3	0.1
Upward House Side	7.6	0.0
Upward Total	22.9	0.1
Tot Flux	21566.6	99.8

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## RESULT OF SIMULATION IN DIALUX



Light loss factor: 0.67  
 Grid: 12 x 6 Points  
 Accompanying Street Elements: 21.6, 1  
 Lamm: R3, q0: 0.070

## SIMULATION CONDITION

- Wattage: 180W
- Double Row, with offset
- Pole distance: 35m
- Mounting height: 12m
- Total Road Width: 16m (4 lanes)

Emin	Emax	Eav	Emin/Emax
16	33	24	0.674

	Lav	UO	UI	TI
Observer1	1.77	0.77	0.75	10
Observer2	1.81	0.58	0.92	10



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