VIC Series 100W & 150W Round LED High Bay

FME Lighting | ILLUMINATING INDUSTRIAL APPLICATIONS

Project:	
Type:	
Catalog #:	

STANDARD

cULus | DLC LISTED | FC | WET | 4kV Surge Protection | IP65
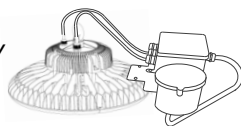
The VIC Series is a round LED high bay luminaire, which is designed to illuminate a wide variety of settings, including commercial, industrial & retail settings such as warehouses, manufacturing plants, sporting venues and big-box retailers. With a die cast aluminum housing and polycarbonate lens, the VIC Series provides durability and high performance. High-efficacy, long-life LEDs provide both energy and maintenance cost savings compared to traditional, HID high bays.

FEATURES

- Available in 4000k (neutral white) and 5000k (cool white) color temperatures.[*]
- Long-life LEDs provide 80,000 hours of operation with at least 70% of initial lumen output (L_{70}).[**]
- LEDHBRSN100W provides 13,093 lumens (127 lumens per watt, LPW) at 4000k, and 13,116 lumens (127 LPW) 5000k.[*]
- LEDHBR150W provides 18,240 lumens (120 LPW) at 4000k, and 18,450 lumens (121 LPW) 5000k.[*]
- Universal 120-277 AC voltage (50-60Hz) is standard. Step-down transformers are required for 347-480V applications.
- 0-10vdc dimming drivers are standard.
- Watertight, compression-type electrical connectors prevent moisture intrusion.
- Standard mounting bracket and optional mounting accessories provide ceiling and conduit mounting, and up to 100° of adjustability.
- Optional wet-location junction box & bracket (LEDHBRSN-JBOX) attaches to luminaire housing, and simplifies wiring connections in wet locations.
- Optional Merrytek occupancy sensor (IP65 rated) and junction box assembly provides a factory-ready, fully-wired luminaire & control package.
- Power factor > 0.90.
- Total harmonic distortion < 20%.
- Color rendering index > 80.
- Painted die cast aluminum housing.
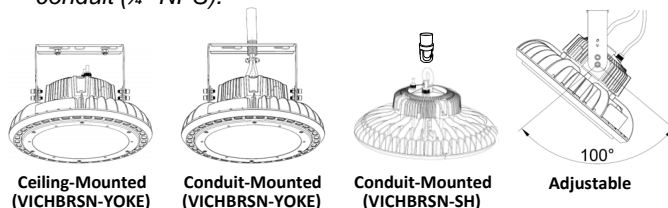- Easy installation in new construction or retrofit.

LEDHBRSN With Waterproof Junction Box, Mounting Bracket & Merrytek Sensor

[*] Contact factory for other color temperatures and lumen packages.
[**] L_{70} hours are IES TM-21-11 calculated hours.
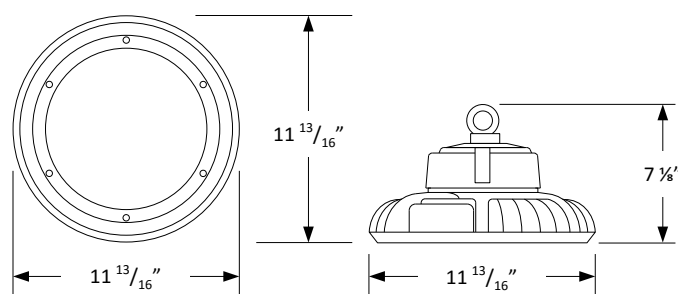
WARRANTY & LISTINGS

- cULus listed for wet locations in ambient temperatures from -20°C to 50°C (-4°F to 122°F).
- IP65 rated for ingress protection.
- DLC standard approved.
- Complies with FCC Part 15, class B.
- Complies with EN61000-4-5, surge immunity protection (4kV).
- 5-year warranty of all electronics and housing.

MOUNTING OPTIONS

- Suspension from pre-installed mounting hook (cast iron M10 eyebolt) with locking set screw is standard.
- Ceiling-mounted installation (using optional yoke mounting bracket, FLEDHBRSN-YOKE) provides up to 100° of adjustability.
- Two ways to mount luminaire to electrical conduit:
  - Attach conduit (½" NPS) to optional yoke mounting bracket (LEDHBRSN-YOKE).
  - Optional snap hook (LEDHBRSN-SH) attaches to electrical conduit (¾" NPS).

Ceiling-Mounted (VICHBRSN-YOKE)   **Conduit-Mounted (VICHBRSN-YOKE)**   **Conduit-Mounted (VICHBRSN-SH)**   **Adjustable**

DIMENSIONS

$11\frac{13}{16}$" $11\frac{13}{16}$" $11\frac{13}{16}$" $7\frac{1}{8}$" 100°

Weight: 8.4 lbs.

ORDERING INFORMATION

Example: VICHBRSN100-4K + VICHBRSN-SH+ VICHBRSN-OSJBOX

Model	Luminaire Watts	Luminaire Lumens	Lumens Per Watt	Color Temperature	Options (Order Separately)
VICHBRSN100	103	13,093	127	4K = 4000k	VICHBRSN-SH = Snap hook
		13,116	127	5K = 5000k	VICHBRSN-YOKE = Yoke mount bracket
VICHBRSN150	152	18,240	120	4K = 4000k	VICHBRSN-JBOX = Junction box & mounting bracket
		18,450	121	5K = 5000k	VICHBRSN-OSJBOX = Merrytek IP65-Rated, microwave occupancy sensor, junction box & mounting bracket

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FME Lighting | ILLUMINATING INDUSTRIAL APPLICATIONS

ELECTRICAL DATA

| Model	Color Temp.	CRI [1]	Luminaire Lumens	Luminaire Watts	Lumens/ Watt	Input Voltage[2]	Input Current (A) 120V	240V	277V	Power Factor	THD [3]	L_{70} Hours[4]
VICHBRSN100-4K	4000k	>80	13,093	103	127	120-277	0.86	0.43	0.37	>90%	<20%	80,000
VICHBRSN100-5K	5000k	>80	13,116	103	127	120-277	0.86	0.43	0.37	>90%	<20%	80,000
VICHBRSN150-4K	4000k	>80	18,240	152	120	120-277	1.27	0.63	0.55	>90%	<20%	80,000
VICHBRSN150-5K	5000k	>80	18,450	152	121	120-277	1.27	0.63	0.55	>90%	<20%	80,000

[1] Color rendering index.

[2] All 50-60Hz.

[3] Total harmonic distortion.

[4] L_{70} refers to the number of hours at which lumen output declines to 70% of the initial level. L_{70} hours are IES TM-21-11 calculated hours.

PHOTOMETRIC DATA

VICHBRSN100-5K (13,116 Lumens)
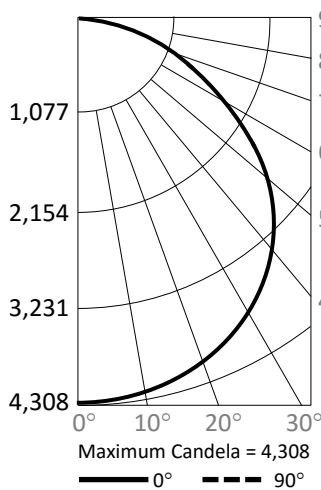
Candlepower Summary

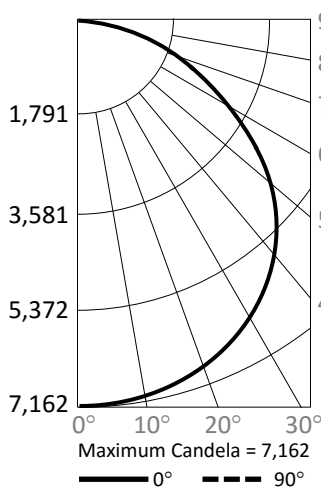|	0°	90°
0°	4,308	4,308
10°	4,265	4,259
20°	4,089	4,073
30°	3,788	3,758
40°	3,345	3,305
50°	2,755	2,727
60°	1,918	1,878
70°	1,012	974
80°	220	199
90°	2	3

Zonal Lumen Summary

Zone	Lumens	% Fixture
0° – 10°	636	4.9%
0° – 20°	2,527	19.3%
0° – 30°	5,561	42.4%
0° – 40°	9.158	69.8%
0° – 50°	11,544	88.0%
0° – 60°	12,434	94.8%
0° – 70°	12,870	98.1%
0° – 80°	13,066	99.6%
0° – 90°	13,090	99.8%
90°– 180°	26	0.2%
0° – 180°	13,116	100.0%

Cone of Light
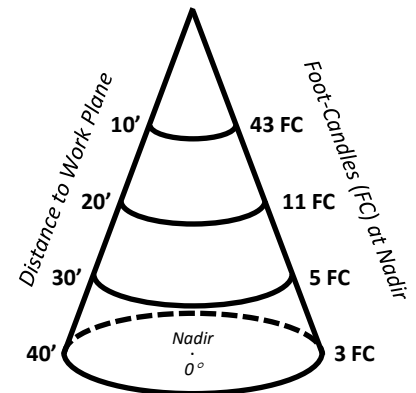
VICHBRSN150-5K (18,450 Lumens)

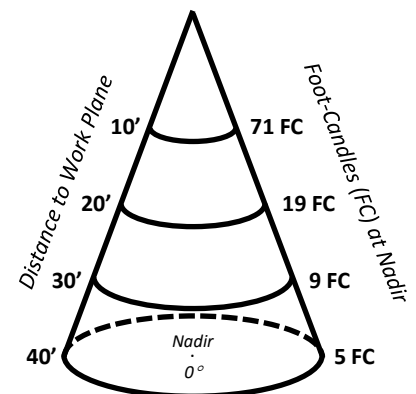**Candlepower Summary**

	0°	90°
0°	7,162	7,162
10°	7,105	7,127
20°	6,837	6,839
30°	6,357	6,373
40°	5,626	5,623
50°	4,610	4,626
60°	3,223	3,233
70°	1,644	1,683
80°	273	332
90°	1	1

Zonal Lumen Summary

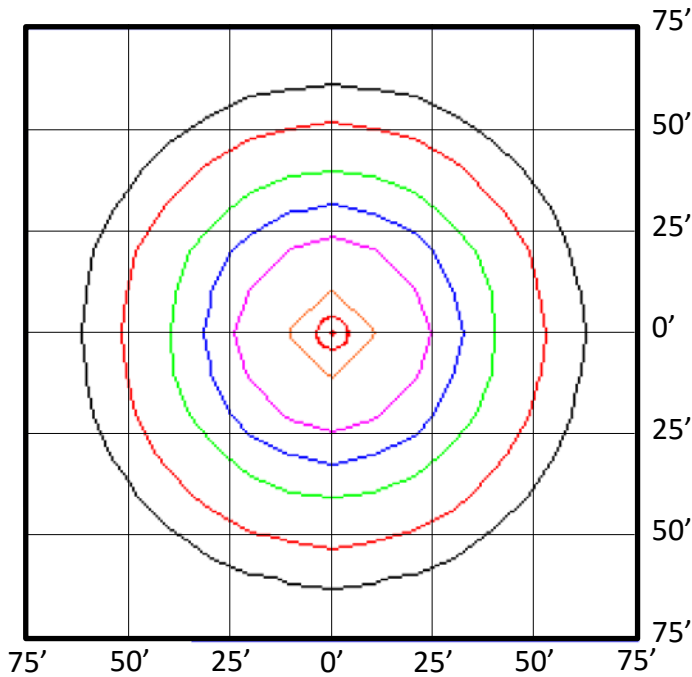| Zone	Lumens	% Fixture
0° – 10°	620	3.4%
0° – 20°	2,415	13.1%
0° – 30°	5,184	28.1%
0° – 40°	8,594	46.6%
0° – 50°	12,190	66.1%
0° – 60°	15,334	83.1%
0° – 70°	17,491	94.8%
0° – 80°	18,343	99.4%
0° – 90°	18,409	99.8%
90°– 180°	41	0.2%
0° – 180°	18,450	100.0%

Cone of Light

PHOTOMETRIC DATA

VICHBRSN100W-5K (13,116 Lumens)

VICHBRSN150W-5K (18,450 Lumens)
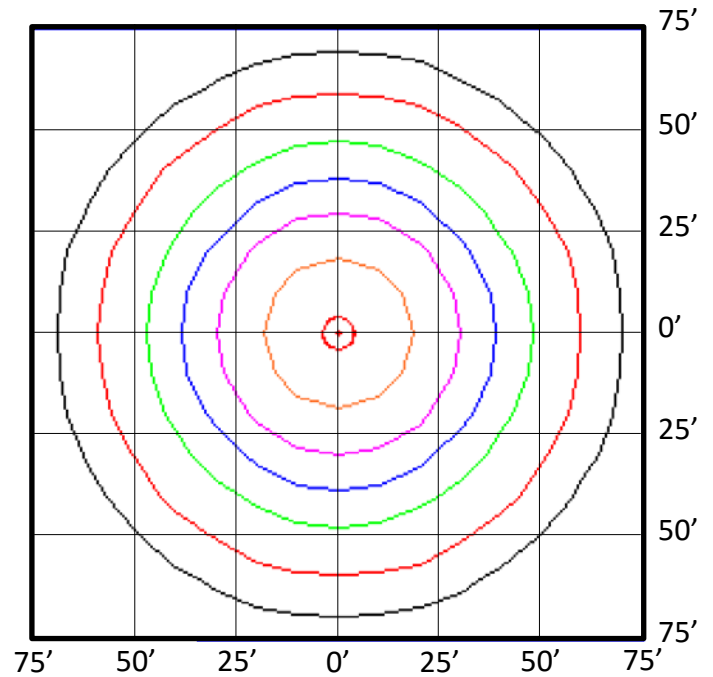
Foot Candles

—	5.0
—	2.0
—	1.0
—	0.5
—	0.2
—	0.1

Notes:

- *Isofootcandle plots depict initial footcandles at grade.*
- *Gridlines represent units of mounting height of 25 feet.*

VIC Series 200W & 240W Round LED High Bay

FME Lighting | ILLUMINATING INDUSTRIAL APPLICATIONS

Project:	
Type:	
Catalog #:	

STANDARD

[cULus] [DLC LISTED] [FC] [WET] [4kV Surge Protection] [IP65]
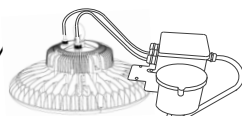
The VIC Series is a round LED high bay luminaire, which is designed to illuminate a wide variety of settings, including commercial, industrial & retail settings such as warehouses, manufacturing plants, sporting venues and big-box retailers. With a die cast aluminum housing and polycarbonate lens, the FLEDHBRSN provides durability and high performance. High-efficacy, long-life LEDs provide both energy and maintenance cost savings compared to traditional, HID high bays.

FEATURES

- *Available in 4000k (neutral white) and 5000k (cool white) color temperatures.*
- *Long-life LEDs provide 81,000 hours of operation with at least 70% of initial lumen output (L_{70}).**
- *FLEDHBRSN200W provides 24,816 lumens (126 lumens per watt, LPW) at 4000k, and 25,042 lumens (127 LPW) at 5000k.*
- *FLEDHBR240W provides 29,412 lumens (124 LPW) at 4000k, and 29,628 lumens (124 LPW) at 5000k.*
- *Universal 120-277 AC voltage (50-60Hz) is standard. Step-down transformers are required for 347-480V applications.*
- *0-10vdc dimming drivers are standard.*
- *Watertight, compression-type electrical connectors prevent moisture intrusion.*
- *Standard mounting bracket and optional mounting accessories provide ceiling and conduit mounting, and up to 100° of adjustability.*
- *Optional wet-location junction box & bracket (LEDHBRSN-JBOX) attaches to luminaire housing, and simplifies wiring connections in wet locations.*
- *Optional Merrytek occupancy sensor (IP65 rated) and junction box assembly provides a factory-ready, fully-wired luminaire & control package.*
- *Power factor > 0.90.*
- *Total harmonic distortion < 20%.*
- *Color rendering index > 80.*
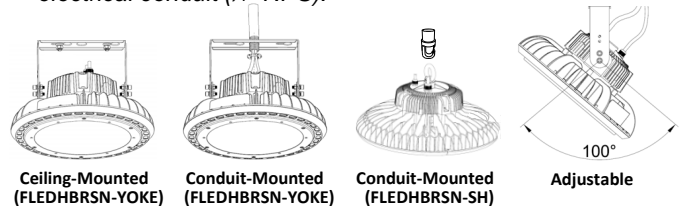- *Painted die cast aluminum housing.*
- *Easy installation in new construction or retrofit.*

* Contact factory for other color temperatures and lumen packages.
** L_{70} hours are IES TM-21-11 calculated hours.

FLEDHBRSN With Waterproof Junction Box, Mounting Bracket & Merrytek Sensor
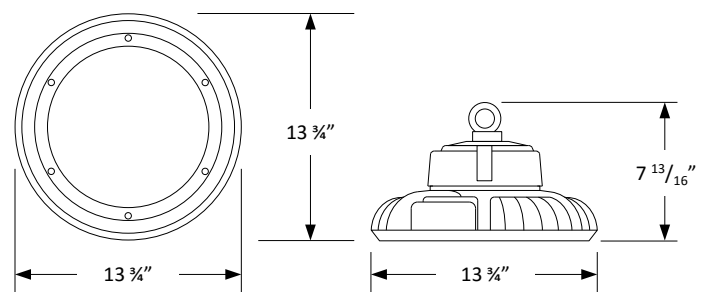
WARRANTY & LISTINGS

- *cULus listed for wet locations in ambient temperatures from -20°C to 50°C (-4°F to 122°F).*
- *IP65 rated for ingress protection.*
- *DLC standard approved.*
- *Complies with FCC Part 15, class B.*
- *Complies with EN61000-4-5, surge immunity protection (4kV).*
- *5-year warranty of all electronics and housing.*

MOUNTING OPTIONS

- *Suspension from pre-installed mounting hook (cast iron M10 eyebolt) with locking set screw is standard.*
- *Ceiling-mounted installation (using optional yoke mounting bracket, FLEDHBRSN-YOKE) provides up to 100° of adjustability.*
- *Two ways to mount luminaire to electrical conduit:*
  - *Attach conduit (½" NPS) to optional yoke mounting bracket (FLEDHBRSN-YOKE).*
  - *Optional snap hook (FLEDHBRSN-SH) attaches to electrical conduit (¾" NPS).*

Ceiling-Mounted (FLEDHBRSN-YOKE) | **Conduit-Mounted (FLEDHBRSN-YOKE)** | **Conduit-Mounted (FLEDHBRSN-SH)** | **Adjustable** 100°

DIMENSIONS

13 ¾" 13 ¾" 7 13/16" 13 ¾"

Weight: 12.1 lbs.

ORDERING INFORMATION

Example: VICHBRSN200-4K + VICHBRSN-SH+ VICHBRSN-OSJBOX

Model	Luminaire Watts	Luminaire Lumens	Lumens Per Watt	Color Temperature	Options (Order Separately)
VICHBRSN200	197	24,816 25,042	126 127	4K = 4000k 5K = 5000k	VICHBRSN-SH = Snap hook VICHBRSN-YOKE = Yoke mount bracket VICHBRSN-JBOX = Junction box & mounting bracket
VICHBRSN240	238	29,412 29,628	124 124	4K = 4000k 5K = 5000k	VICHBRSN-OSJBOX = Merrytek IP65-Rated, microwave occupancy sensor, junction box & mounting bracket

Specifications and dimensions subject to change without notice.

VIC Series 200W & 240W Round LED High Bay

FME Lighting | ILLUMINATING INDUSTRIAL APPLICATIONS

ELECTRICAL DATA

| Model	Color Temp.	CRI [1]	Luminaire Lumens	Luminaire Watts	Lumens/ Watt	Input Voltage [2]	Input Current (A)			Power Factor	THD [3]	L70 Hours [4]
							120V	240V	277V			
VICHBRSN200-4K	4000k	>80	24,816	197	126	120-277	1.64	0.82	0.71	>90%	<20%	81,000
VICHBRSN200-5K	5000k	>80	25,042	197	127	120-277	1.64	0.82	0.71	>90%	<20%	81,000
VICHBRSN240-4K	4000k	>80	29,412	238	124	120-277	1.98	0.99	0.86	>90%	<20%	81,000
VICHBRSN240-5K	5000k	>80	29,628	238	124	120-277	1.98	0.99	0.86	>90%	<20%	81,000

[1] Color rendering index.
[2] All 50-60Hz.
[3] Total harmonic distortion.
[4] L_{70} refers to the number of hours at which lumen output declines to 70% of the initial level. L_{70} hours are IES TM-21-11 calculated hours.

PHOTOMETRIC DATA

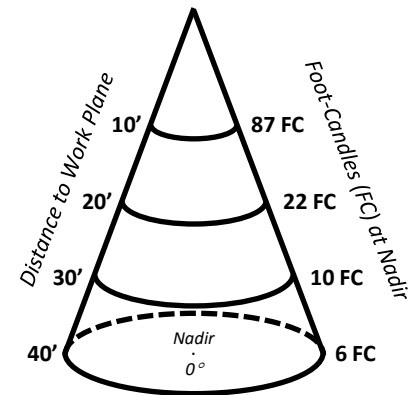### VICHBRSN200W-5K (25,042 Lumens)

Maximum Candela = 8,709
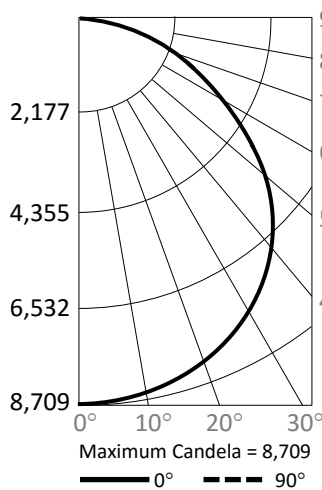
Candlepower Summary

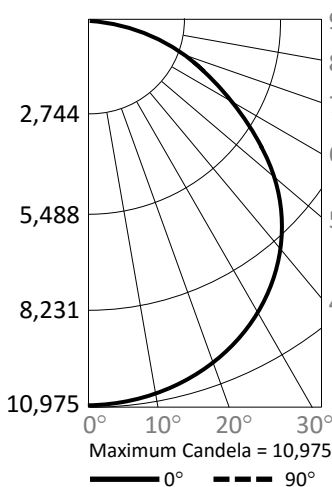|	0°	90°
0°	8,709	8,709
10°	8,602	8,610
20°	8,231	8,229
30°	7,599	7,578
40°	6,675	6,661
50°	5,369	5,331
60°	3,858	3,780
70°	2,043	2,016
80°	463	430
90°	5	7

Zonal Lumen Summary

Zone	Lumens	% Fixture
0° – 10°	847	3.4%
0° – 20°	3,290	13.1%
0° – 30°	7,040	28.1%
0° – 40°	11,633	46.5%
0° – 50°	16,434	65.5%
0° – 60°	20,648	82.5%
0° – 70°	23,617	94.3%
0° – 80°	24,890	99.4%
0° – 90°	25,019	99.9%
90° – 180°	23	0.1%
0° – 180°	25,042	100.0%

Cone of Light

Distance to Work Plane	Foot-Candles (FC) at Nadir
10'	87 FC
20'	22 FC
30'	10 FC
40'	6 FC

VICHBRSN150W-5K (29,628 Lumens)

Maximum Candela = 10,975

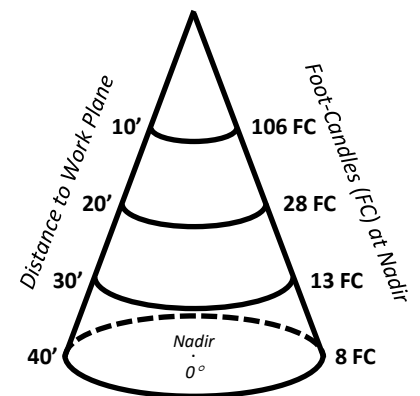**Candlepower Summary**

	0°	90°
0°	10,975	10,975
10°	10,858	10,903
20°	10,383	10,422
30°	9,593	9,617
40°	8,482	8,447
50°	6,769	6,752
60°	4,871	4,780
70°	2,624	2,571
80°	570	562
90°	6	9

Zonal Lumen Summary

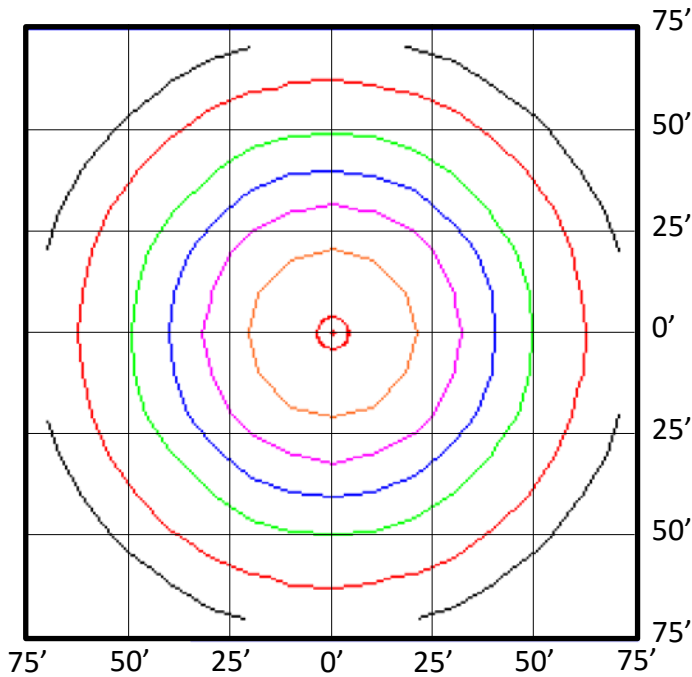| Zone	Lumens	% Fixture
0° – 10°	1,003	3.4%
0° – 20°	3,899	13.2%
0° – 30°	8,344	28.2%
0° – 40°	13,792	46.6%
0° – 50°	19,469	65.7%
0° – 60°	24,447	82.5%
0° – 70°	27,944	94.3%
0° – 80°	29,448	99.4%
0° – 90°	29,601	99.9%
90° – 180°	27	0.1%
0° – 180°	29,628	100.0%

Cone of Light

Distance to Work Plane	Foot-Candles (FC) at Nadir
10'	106 FC
20'	28 FC
30'	13 FC
40'	8 FC

PHOTOMETRIC DATA

VICHBRSN200W-5K (25,042 Lumens)

FLEDHBRSN240W-5K (29,628 Lumens)

Foot Candles

- 5.0
- 2.0
- 1.0
- 0.5
- 0.2
- 0.1

Notes:

- *Isofootcandle plots depict initial footcandles at grade.*
- *Gridlines represent units of mounting height of 25 feet.*