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Project:
Location:
Cat. #:
Туре:
Quantity:



PBL V2 2W | LED High Bay

Features:

- High performance LED technology
- 0-10V dimming drivers standard on all models - dimmable to 5% on all models, with most dimmable to 1%
- DALI drivers available based on configuration
- Field replaceable LED boards and drivers through Re-boardABILITY (more info on Page 3)
- Frosted diffusers available to help minimize glare and improve aesthetics
- A wide variety of lumen packages allows for flexibility in design and helps maximize energy savings
- Multiple controls options available
- The PBL V2's unibody design is surface mountable with easy access to the driver compartment from below

Applications:

Suitable for most commercial, industrial and institutional applications

- Retail
- Warehouse
- Manufacturing
- Not recommended for cold/frozen storage applications

Ambient Operating Temp.: • -30°C to 40°C*

* for suspended mount applications. Contact factory for ambient temperature ratings for surface mount applications.

Construction:

- Housing and LED tray is precision brake formed from aluminum
- Pre-painted with a highly durable, highly reflective white finish

Certifications:

- UL 1598 listed for US and Canada, suitable for damp locations
- DesignLights Consortium qualified on specific configurations (refer to DLC qualified products list for exact model numbers) http://designlights.org/



Predicted Lifetime:

- L70: 167,000 hrs (calculated)
- L80: 105,000 hrs (calculated)
 L90: 50,000 hrs (reported)
- 88% lumen maintenance @ 60,000 hrs

(based on LM80 and insitu laboratory testing)

Warranty:

• 5 year limited system warranty see <u>www.LumenFocus.com</u> for complete warranty terms and conditions





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Ordering Guide:

example: PBL V2 2W HI UV 850 QC									
Series	Length	Output	Voltage	Shielding	CRI/CCT	Hanging	Controls ⁽¹⁾	Options	Finish
PBL V2	2W								
PBL V2 PBL Version 2	2W	HI High	UV 120-277	Blank No Lenses	835 80 CRI/3500K	Blank None	Blank No Controls	Blank No Options	Blank White
		VH Very High	34 347V	FR Frosted Acrylic Diffusers	840 80 CRI/4000K	QC 10' Quick Hang Cable Kit	ZOS Occupancy Sensor (On/Off)	C6 6' Single Circuit Cord	BK Matte Black
		SH Super High	48 480V	Dillusers	850 80 CRI/5000K	QC20 20' Quick Hang Cable Kit SM	ZOSMHB Leviton Microwave 0-10V Multi- Level Occupancy Sensor with Photocell	C65W 6' Single Circuit Cord with Low Voltage Connections C10 10' Single Circuit Cord	SL Metallic Silve
						Surface Mount	ZOSD 0-10V Dimming Occupancy Sensor with Daylight Harvesting Z221Bxx ⁽²⁾	C105W 10' Single Circuit Cord with Low Voltage Connections	
lotes							Wattstopper Programmable 0-10V Multi-Level Occupancy Sensor with Photocell, Task Tuning	D6 6' Dual Circuit Cord	
'xx' = select	: lens type k	' on Page 4 f based on mc nmary' on Pa	ounting heigl	nt and coverag	je		Z321Bxx ⁽²⁾ Wattstopper Bluetooth-enabled	D10 10' Dual Circuit Cord	
) 120-277V / emergency r of the lumina	0°C-55°C a mode, multi aire it is insta	mbient. To es ply EM wattag illed in.	stimate lumer ge by the Lun	n output in nens per Watt			Programmable 0-10V Dimming Occupancy Sensor with Daylight Harvesting, Task Tuning	P(NEMA) Plug (Specify NEMA configuration)	
ex. PBL V2 2	W HI UV 85	0 EM14 → 158	3.6 LPW x 14\	N = 2,220 lm			ZOFD1 Leviton Bluetooth-enabled Programmable 0-10V Dimming Occupancy Sensor with Daylight	SC Safety Cable F	
Accesso	ories (d	order sep	arately)				Harvesting, Task Tuning, Grouping	Fuse	
WG(PBL2W) Wire Guard for use with end-mounted sensor							ZOFDU Leviton Bluetooth-enabled Programmable 0-10V Dimming	EM6 6.5W Emergency Pack ⁽³⁾	
Control		occorio	C (order	conaratoly	ð		Occupancy Sensor with Daylight Harvesting, Task Tuning, Grouping, Scheduling	EM10 10W Emergency Pack ⁽³⁾	

Controls Accessories (order separately)

Accessory Code	Description	Control Compatibility	Additional Info
ZLSOR	Wireless IR Configuration Tool	ZOSMHB	pg. 4
FSIR-100	Wireless IR Configuration Tool	Z221Bxx	pg. 4
KTSL-WS1-B-SG/G2	5-Button Bluetooth Wireless Wall Switch (battery powered)	ZSLHB	pg. 5
KTSL-TK1-USB	USB Time Keeper	ZSLHB	pg. 5
ZBT-S1AWH	Single Rocker ZigBee Wireless Wall Switch (self powered)	ZESMC	pg. 5
ZBT-S2AWH	Dual Rocker ZigBee Wireless Wall Switch (self powered)	ZESMC	pg. 5
WP1013	3-Button Bluetooth Wireless Wall Switch (battery powered)	ZLTSxx, ZLTC	pg. 6
WP1025	5-Button Bluetooth Wireless Wall Switch (battery powered)	ZLTSxx, ZLTC	pg. 6
WP1018	8-Button Bluetooth Wireless Wall Switch (battery powered)	ZLTSxx, ZLTC	pg. 6
WP1018A	8-Button Bluetooth Wireless Wall Switch (battery powered)	ZLTSxx, ZLTC	pg. 6
WP10135S	3-Button Bluetooth Wireless Wall Switch (line voltage)	ZLTS <i>xx</i> , ZLTC	pg. 6
WP1017S	7-Button Bluetooth Wireless Wall Switch (line voltage)	ZLTSxx, ZLTC	pg. 6
IWS102	Bluetooth Wireless Wall Switch w/ PIR Sensor (line voltage)	ZLTC	pg. 6

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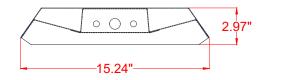
Programmable 0-10V fixture controller with Task Tuning, Grouping, Scheduling, and Advanced Networking & IoT Capabilities

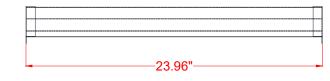
example: PBL V2 2W HILLIV 850 OC20 C6

Grouping, Scheduling EM14 ZSLHB 14W Emergency Pack ⁽³⁾ Keystone SmartLoop Bluetooth-EM20 enabled Programmable 0-10V 20W Emergency Pack (3) Dimming Occupancy Sensor with Daylight Harvesting, Task Tuning, Grouping, Scheduling SDT(480V) 480V to 277V Step Down ZESMC Transformer Philips EasySense Bluetooth-enabled Programmable DALI CC Dimming Occupancy Sensor with Daylight Harvesting, Task Tuning, Grouping, Scheduling Conformal Coating LVL 0-10V Dimming Leads for ZLTSxx⁽²⁾ Easy Field Access LiteTrace Bluetooth-enabled Programmable 0-10V Dimming BAA Occupancy Sensor with Daylight Buy American Act Harvesting, Task Tuning, Compliant Grouping, Scheduling, and Advanced Networking & IoT Capabilities ZLTC LiteTrace Bluetooth-enabled

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Schematic:





Performance Chart:

Catalog #	Lumens	Watts	LPW	Catalog #	Lumens	Watts	LPW	Catalog #	Lumens	Watts	LPW
PBL V2 2W HI UV 835	17305.4	112.1	154.4	PBL V2 2W HI UV 840	17785.6	112.1	158.6	PBL V2 2W HI UV 850	17785.6	112.1	158.6
PBL V2 2W VH UV 835	19170.4	121.3	158.0	PBL V2 2W VH UV 840	19702.4	121.3	162.4	PBL V2 2W VH UV 850	19702.4	121.3	162.4
PBL V2 2W SH UV 835	23459.3	151.2	155.2	PBL V2 2W SH UV 840	24110.2	151.2	159.5	PBL V2 2W SH UV 850	24110.2	151.2	159.5
PBL V2 2W HI UV FR 835	16309.6	112.1	145.5	PBL V2 2W HI UV FR 840	16762.1	112.1	149.5	PBL V2 2W HI UV FR 850	16762.1	112.1	149.5
PBL V2 2W VH UV FR 835	18067.2	121.3	149.2	PBL V2 2W VH UV FR 840	18568.6	121.3	153.3	PBL V2 2W VH UV FR 850	18568.6	121.3	153.3
PBL V2 2W SH UV FR 835	22109.3	151.2	146.2	PBL V2 2W SH UV FR 840	22722.8	151.2	150.3	PBL V2 2W SH UV FR 850	22722.8	151.2	150.3

Lumen Adjustment Factors: WG: 0.947

Re-board ABILITY

The PBL V2 features field replaceable boards and drivers. This allows you to upgrade to more efficient technology in the future. Or, in the rare event of a failure, you can rapidly replace defective components. Re-boardABILITY helps to ensure you won't get stuck with an obsolete light fixture. Learn more about <u>Re-boardABILITY here.</u>





<u>Click here for a video demonstration of the</u> <u>re-boarding process on a PBL.</u> Note: Exact time varies depending on the model.



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Controls Summary:

Control Code	Occupancy	Daylight	Tech	Voltage	Dim	Max Mounting Ht.	Networking	Scheduling	BMS Integration	User Interface	Add. Info
ZOS	On/Off	N/A	PIR	120-347V, 480V	N/A	20', 40', Aisle Mask (all included)	N/A	х	х	On Device	-
ZOSMHB	On/Low/Off	Hold Off	Microwave	120/277V	0-10V	50'	N/A	х	Х	On Device, IR Remote*	pg. 4
ZOSD	On/Low/Off	Daylight Harvesting	PIR	120-277V, 347V	0-10V	20', 40', Aisle Mask (all included)	N/A	х	х	On Device	-
Z221Bxx	High/Low/Off	High/Low/ Off	PIR	120-347V, 480V	0-10V	L2 L3 L7 8' 20' 40' (select one)	N/A	х	х	IR Remote*	pg. 4
Z321Bxx	High/Low/Off	Daylight Harvesting	PIR	120-347V, 480V	0-10V	L2 L3 L7 8' 20' 40' (select one)	N/A	x	х	iOS / Android App	pg. 4
ZOFD1	High/Low/Off	Daylight Harvesting	PIR	120-277V	0-10V	20', 40', Aisle Mask (all included)	Bluetooth Mesh	х	х	iOS / Android App	pg. 4
ZOFDU	High/Low/Off	Daylight Harvesting	PIR	120-277V, 347V, 480V	0-10V	20', 40', Aisle Mask (all included)	Bluetooth Mesh	~	х	iOS / Android App	pg. 4
ZSLHB	High/Low/Off	Daylight Harvesting	PIR	120-277V	0-10V	40'	Bluetooth Mesh	~	х	iOS / Android App, Wireless Wall Switch*	pg. 5
ZESMC	High/Low/Off	Daylight Harvesting	PIR	DALI-2 (120-277V)	DALI	52'	ZigBee 2.4GHz Mesh	~	х	iOS / Android App, Wireless Wall Switch*	pg. 5
ZLTSxx	High/Low/Off	Daylight Harvesting	PIR	120-277V	0-10V	MBL1 HBL1 HBL2 20' 40' 50' (select one)	Bluetooth LE Mesh	~	~	iOS / Android App, Wireless Wall Switch*, Autani Web Interface*	pg. 6
ZLTC	N/A	N/A	N/A	12VDC	0-10V	N/A	Bluetooth LE Mesh	~	✓	iOS / Android App, Wireless Wall Switch*, Autani Web Interface*	pg. 6

* Sold Separately

Programmable Dimming Sensors:

ZOSMHB Sensor Option

- Provides occupancy detection and multi-level control with adjustable time-outs
- Tri-level dimming control
- Comes pre-installed on the end cap
- Suitable for cold storage locations
- Built-in photocell reads brightness values. Sensor does not switch luminaire on if there is suffcient ambient light

 Control parameters selected manually via DIP switches, or using the optional ZLSOR remote **ZLSOR** (sold separately) - adjustable parameters include sensitivity, hold time, lux

level, stand-by light level, stand-by hold time

· Maximum mounting height of 50 feet, with adjustable coverage radius up to 30 feet





Z221B, Z321B Sensor Options

- The Wattstopper FSP sensor provides multi-level control based on motion and/or daylight contribution
- Comes pre-installed on the end cap
- Rated for cold locations
- · Parameters for Bluetooth-enabled Z321B adjustable via phone app - iOS or Android
- Parameters for Z221B adjustable via wireless configuration tool (FSIR-100 - sold separately)
- Three lenses available, tailored for the ideal detection area and mounting height:
 - L2: 360° lens, maximum coverage 48' diameter from 8' height
 - L3: 360° lens, maximum coverage
 - 40' diameter from 20' height
 - L7: 360° lens, maximum coverage
 - 100' diameter from 40' height

ZOFDx Sensor Option

- Leviton Smart IP66 passive infrared (PIR) sensors
- Features mesh grouping (16 devices per group), occupancy sensing, daylight harvesting, scheduling (for ZOSFDU only), single-level switching
- Comes pre-installed on the end cap
- Rated for cold locations
- Configurable through the Leviton Smart Sensor App using a smartphone or other Bluetooth-enabled iOS or Android device



The ZOFD option includes four sensor lenses that can easily be installed or swapped out in the field. From left: the high bay lens (20'-40' mounting), the high bay lens with aisleway mask, the low bay lens (8'-20' mounting), and the low bay lens with aisleway mask.

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Keystone SmartLoop Wireless Control System

The SmartLoop wireless lighting control system by Keystone is a Bluetooth mesh lighting control system that allows you to set up and manage your lighting ecosystem quickly and easily. It's powerful enough to run a space with multiple lighting zones, but simple enough to program in minutes with your smartphone – perfect for warehouses, offices, schools, and auditoriums, whether new construction or retrofit.

- Wireless Bluetooth 2.4 GHz mesh network
- Supports up to 100 devices on a single region, with unlimited regions
- Independent per-fixture control: Occupancy, Daylight Harvesting, Task Tuning, Grouping, Scene Setting, Scheduling
- Commissioned via SmartLoop mobile app for iPhone and Android



- External Line Voltage High Bay Sensor, Side-Mount
- 120-277VAC Input
- PIR + Daylight Harvesting
- IP40 Rated
- 0-10V DC dimmable
- Up to 40' mounting height. 40' radius at 40' height.

SmartLoop Accessories

- Bluetooth Wireless Wall Switch: KTSL-WS1-B-SG/G2
 Battery Powered: 2x CR2032
 - 5 Button: Power Toggle, Dimming, Automatic Sensor/Preset Level Operation, Scene Activation
- Auto
- USB Time Keeper: KTSL-TK1-USB
 - Relays time to system components after a power loss
 - Powered by standard USB charging port
 - Internal CR1220 battery backup



Philips EasySense Wireless Control System

EasySense MC Sensors are the ideal solution for per-luminaire control of new LED luminaires. It combines occupancy and daylight sensing in one package. The result is a cost-effective and easy-to-install solution ideal for energy savings. Commissioning and configuration during and after installation is quick and easy using the Philips MasterConnect app. This app works via Bluetooth Low Energy (BLE) technology and is available for free in the App Store and the Google Play Store.



- Occupancy sensing, daylight harvesting, and task tuning in one device
- up to 52' mounting height. 26' radius at 52' height.
- Groups/networks up to 120 lights
- Enables auto-off/manual-on and auto-off/partial-on application
- Independent per-fixture control: Occupancy, Daylight Harvesting, Task Tuning
- Occupancy Sharing
- Scene Setting
- Advanced grouping to select Zigbee wireless wall switches
- Simple room level energy reporting with CSV file saved on the phone
- ZigBee 2.4 GHz Wireless Mesh Network
- Works with Advance Xitanium SR 120-277V drivers or other D4i certified LED drivers

Room Controllers

- Illumra ZBT-S1AWH (Single Rocker) or ZBT-S2AWH (Dual Rocker) wireless Zigbee wall switch
 - Self-Powered
 - Up to 120 sensors can be grouped to a single switch
 - Functions: On/Off, Dim-Up/Dim-Down, Scene 1, Scene 2 (Scenes: Dual Rocker Only)
 Range: 30-100' (typical)





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LiteTrace | Keilton+autani: Wireless networked controls, upgradeable systems

LiteTrace makes your existing building smarter by integrating the Keilton lighting controls platform with Autani's proven energy management, reporting, and control platform. Keilton+autani systems are flexible, adaptable, and resilient, providing solutions designed to scale up without having to change hardware.

Scalable product tiers allow implementing a solution aligned to your current needs, with robust upgrade pathways to expand capabilities as requirements evolve.

Capabilities	Keilton +autani (ZLTSx)	Energy Center by Autani *	Autani Insights *
Motion and Switch Groups	✓	~	~
Daylight Harvesting	~	~	~
Schedule Lighting	✓	✓	~
Energy Reporting & Optimization	✓	~	~
Overrides & Automated Demand Response	✓	✓	~
Environment Data & Lighting Controls API		✓	~
Building Management & System Integration		~	✓
Building Optimization Application			~
Location & Occupancy APIs & Beaconing			~
Future App & API Ready			1

* additional hardware and software required.

An easy and affordable stand-alone (gateway-free) room-based Bluetooth lighting control solution + autani controllable via mobile app (iOS & Android).

EnergyCenter

A networked control solution which offers additional functionality such as advanced scheduling, reporting, metering, and building management integration.

Devices	Colour Terrain Late Learn 1	top Mers Link Stanlers	
Groups	Hales Moore E Transa	an 1 🕈 Lauba 🔍 Lauba 🔰 Saaba 🖤	Gravini 7 Romani 7 Blaine
Automation	Deviat 10 0 Fact. Generation 1 8 Motors	* Prec * 2008 *	Link: 0 VEN: 0
Every	Land Land		
Alerts	(impany)me an		partie in an
Analysis			
e Settings	Traing 1 Comp 1		United Street Sectors 17
Help	ful Only 1	Tarrendiation Ph	Amplification of
Log OT			
Colorar C Colorar C			



The most advanced offering, providing valuable data insights into a single building or a portfolio of buildings. This allows for asset tracking, campus-wide wayfinding, 3D facility monitoring and more.





- External Line Voltage High Bay Sensor, Side-Mount
- 120-277VAC Input
- PIR + Daylight Harvesting
- 50-ft max mounting height (with HBL3 lens)
- IP40 Rated

•

- 0-10V DC dimmable
- Bluetooth-enabled
- Replaceable lens options
 - MBL1: Mid Bay Lens
 - 360° coverage
 - 8' 20' mounting height
 - up to 50' diameter @ 20' height
 - HBL1: High Bay Lens
 - 360° coverage
 - 20' 40' mounting height
 - up to 64' diameter @ 40' height
 - HBL3: High Bay Lens
 - 360° coverage
 - 20' 50' mounting height
 - up to 100' diameter @ 50' height



- Wireless 0-10V fixture controller
- Integral Bluetooth module
- 12VDC Input



WP1013 WP1025 WP1018

Battery Powered

- 3-, 5-, and 8-button configurations
- Bluetooth Enabled
- 1 x CR2032 battery (WP1013, WP1025, WP1018)
- 2 x AAA batteries (WP1018A)
- Approx. 3 year battery life (batteries not included)

WP1018A



Line Voltage

- 3-, 7-button configurations, and Occ/Vac Sensor Switch
- Line voltage powered: 120-277V
- Bluetooth Enabled



Mounting:



Surface Mount

The PBL V2 is designed to be easily mounted to any sturdy surface. Simply remove the hex head screws holding the driver cover (top picture, in green) to access the bottom of the housing below. The housing can be mounted to the surface from the four holes in each corner of the channel (bottom picture, circled).





Cable Mount The optional QC hanging kit comes in 10' or 20'. Cables are pre-looped for easy installation and designed for easy fixture height adjustment. QCs come boxed with each fixture when ordered.

Other Options:



Shielding Frosted acrylic diffuser lenses minimize glare and improve aesthetics.



Conformal coating Grants LED boards added protection from moisture and corrosion in more hazardous environments.



Cords are available in single

circuit or dual circuit, 6' or 10'.

Standard plug is optional, as

if specified.

are other NEMA configurations

Finish

In addition to the standard white finish, the PBL 2V is also available in matte black (BK) and metallic silver (SL).







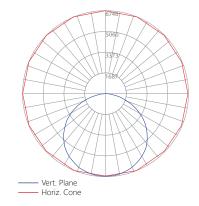
Photometric Data:

PBL V2 2W VH UV 850

Test No.: LLIA001687-011	Angle In	Average	Áverage	Average
Luminaire Lumens: 19,703 lm	Degrees	0-Deg	45-Deg	90-Deg
Luminaire Watts: 121.3W Efficacy: 162.4 LPW Spacing Criterion (0-180): 1.30 Spacing Criterion (90-270): 1.30	45 55 65 75 85	28781 27982 25900 20874 8422	28449 27803 25920 22819 7883	28443 27848 26496 12580 9009

Coefficients Of Utilization - Zonal Cavity Method Effective Floor Cavity Reflectance 0.20

			-						 			 		
RC		80				70				50			30	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74
3	90	80	71	65	88	78	70	64	75	69	63	72	67	62
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35
8	60	47	38	32	59	46	38	32	44	37	32	43	36	32
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26



Zonal Lumen Summary							
Zone	Lumens	%Fixt					
0-20	2464.0	12.5					
0-30	5266.4	26.7					
0-40	8704.3	44.2					
0-60	15670.7	79.5					
0-80	19474.2	98.8					
0-90	19700.6	100.0					
90-120	2.0	0.0					
90-130	2.0	0.0					
90-150	2.0	0.0					
90-180	2.0	0.0					
0-180	19702.6	100.0					

Tested in accordance with IES standards utilizing absolute photometry per LM-79-08

70

78

69

42

30 10

116 116

98 94

83 77

70 64

61 55

53 47

47 41

42 36

38 32

35 29

32 26

70 50

116 116

106 102

96 89

88

80

74 62

68 56

63 51

59 46

55

52 39

PBL V2 2W VH UV FR 850

Effective Floor Cavity Reflectance 0.20

80

50

119

104 100 96

80

43

70

119

109

99 91

90

83 71

76 63

70 57

65 51

60 47

57

53 40 32 27

Coefficients Of Utilization - Zonal Cavity Method

30 10

119 119

84 78

71

62 55

54 47

48

43 37

38 33

35

65

41

29

Test No.: LLIA001687-014
Luminaire Lumens: 18,569 lm
Luminaire Watts: 121.1W
Efficacy: 153.4 LPW
Spacing Criterion (0-180): 1.24
Spacing Criterion (90-270): 1.28

Luminance Data (cd/sq.m)

50

60

46 41

34 29

10

111

91

75

54

47

36

32

26

50 30

111 111

97 94

85 80

75 69 63

67

60 52

54

49 42

45 38

41

38 31

Luminance Data (cd/sg.m)

Angle In	Average	Áverage	Average
Degrees	0-Deg	45-Deg	90-Deg
45	24057	25490	26620
55	20796	24030	25886
65	16668	22184	24785
75	12125	19525	16907
85	6594	10955	10920

30

67

34

10

106

88

74

62

53

46

40

36

32

29

26

50 30

106 106

94 91

82 77

72

64 58

58 51

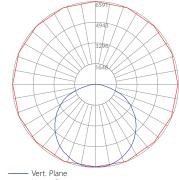
52 46

48 41

44 37

40

37 31



—— Horiz. Cone

Zonal Lumen Summary		
Zone	Lumens	%Fixt
0-20	2410.7	13.0
0-30	5123.3	27.6
0-40	8386.9	45.2
0-60	14720.5	79.3
0-80	18206.7	98.0
0-90	18551.5	99.9
90-120	17.4	0.1
90-130	17.4	0.1
90-150	17.4	0.1
90-180	17.4	0.1
0-180	18568.8	100.0

Tested in accordance with IES standards utilizing absolute photometry per LM-79-08



RC

RW

0

1

2

3

4

5

6

7

8

9

10