LumenFécus



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

LED

MADEINUSA

PBL V2 HD-2W | LED Heavy Duty 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 HD's unibody design is surface mountable with easy access to the driver compartment from below

Applications:

Suitable for most commercial, industrial and institutional applications

- Gymnasiums
- Recreation Centers
- Manufacturing
- Warehouse
- 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.



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Construction:

- Housing is precision brake formed from heavy duty 0.063" 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 HILLV 850 HDW PM 70SD BK

oracini	g cui	uc.						example: PBL V2 2W F	HI UV 850 HDW PI	M ZOSD B			
Series	Length	Output	Voltage	Shielding	CRI/CC1	Г Gauge	Hanging	Controls ⁽¹⁾	Options	Finish			
PBL V2	2W					HDW							
PBL V2 PBL Version 2	2W 2'	HI High	UV 120-277	Blank No Lenses	835 80 CRI/3500		Blank None	Blank No Controls	Blank No Options	Blank White			
		VH ^{Very High} SH	34 347V 48	FR Frosted Acrylic Diffusers	840 80 CRI/40001 850	0.063" Aluminum Wide-Body Housing	QC 10' Quick Hang Cable Kit	ZOS Occupancy Sensor (On/Off)	C6 6' Single Circuit Cord C65W	BK Matte Black			
		Super High	480V		80 CRI/50001	ĸ	QC20 20' Quick Hang Cable Kit	ZOSMHB Leviton Microwave 0-10V Multi- Level Occupancy Sensor with Photocell	6' Single Circuit Cord with Low Voltage Connections	Metallic Silve			
							PM Pendant Mount ST(x) 3/4" Stem (Specify Length)	ZOSD 0-10V Dimming Occupancy Sensor with Daylight Harvesting Z221Bxx ⁽²⁾	C10 10' Single Circuit Cord C105W 10' Single Circuit Cord with Low Voltage				
Notes	c		C 1	1				Wattstopper Programmable 0-10V Multi-Level Occupancy Sensor with Photocell, Task Tuning	Connections D6 6' Dual Circuit Cord				
of the luminai	ens type l ontrol Sur °C-55°C a ode, multi re it is insta	based on m mmary' on F imbient. To e iply EM watta alled in.	ounting hei Page 4 for m estimate lume age by the Lu	ght and cover nore details.	t			Z321Bxx ⁽²⁾ Wattstopper Bluetooth-enabled Programmable 0-10V Dimming Occupancy Sensor with Daylight Harvesting, Task Tuning ZOFD1	D10 10' Dual Circuit Cord P(NEMA) Plug (Specify NEMA configuration)				
					_			Leviton Bluetooth-enabled Programmable 0-10V Dimming Occupancy Sensor with Daylight Harvesting, Task Tuning, Grouping	Safety Cable				
Accesso	ries (d	order sep	parately)					ZOFDU	F Fuse				
WG(PBL2W) WGE(PBL2W)	Ex			use with end-r		nsor		Leviton Bluetooth-enabled Programmable 0-10V Dimming Occupancy Sensor with Daylight Harvesting, Task Tuning, Grouping,	EM6 6.5W Emergency Pack ⁽³⁾				
ontrois	S ACCE	essorie	S (order	separatel	y)			Scheduling	EM10				
Accessory Code	Desc	ription			Control mpatibility	Additional Info		ZSLHB Keystone SmartLoop Bluetooth-	10W Emergency Pack ⁽³⁾				
ZLSOR	Wirele	ess IR Configura	tion Tool		ZOSMHB	pg. 4		enabled Programmable 0-10V	EM14				
FSIR-100		ess IR Configura			Z221Bxx	pg. 4		Dimming Occupancy Sensor with Daylight Harvesting, Task Tuning,	14W Emergency Pack ⁽³⁾				
KTSL-WS1-B-SG/	G2 5-Butt		/ireless Wall Swi	tch (battery	ZSLHB	pg. 5		Grouping, Scheduling	EM20 20W Emergency Pack ⁽³⁾				
KTSL-TK1-USB		ime Keeper			ZSLHB	pg. 5		ZESMC Philips EasySense Bluetooth-	Pack ⁽³⁾				
ZBT-S1AWH	Single		Wireless Wall S	witch (self	ZESMC	pg. 5		enabled Programmable DALI Dimming Occupancy Sensor with	SDT(480V) 480V to 277V Step				
ZBT-S2AWH	Dual F power		Vireless Wall Sw	itch (self	ZESMC	pg. 5		Daylight Harvesting, Task Tuning, Grouping, Scheduling	Down Transformer				
WP1013	3-Butt power		/ireless Wall Swi	tch (battery Z	LTS <i>xx</i> , ZLTC	pg. 6		ZLTSxx ⁽²⁾ LiteTrace Bluetooth-enabled	Conformal Coating				
WP1025	5-Butt power		/ireless Wall Swi	tch (battery Z	LTS <i>xx</i> , ZLTC	pg. 6		Programmable 0-10V Dimming Occupancy Sensor with Daylight	LVL 0-10V Dimming Leads				
WP1018	8-Butt power		/ireless Wall Swi	tch (battery Z	LTS <i>xx</i> , ZLTC	pg. 6		Harvesting, Task Tuning, Grouping, Scheduling, and Advanced	for Easy Field Access				

BAA Buy American Act Compliant

Networking & IoT Capabilities

ZLTC

LiteTrace Bluetooth-enabled

Programmable 0-10V fixture controller with Task Tuning,

Grouping, Scheduling, and Advanced Networking & IoT

Capabilities

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powered)

(line voltage)

WP1018A

WP10135S

WP1017S

IWS102

 \bowtie

8-Button Bluetooth Wireless Wall Switch (battery

3-Button Bluetooth Wireless Wall Switch (line voltage)

7-Button Bluetooth Wireless Wall Switch (line voltage)

Bluetooth Wireless Wall Switch w/ PIR Sensor

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pg. 6

pg. 6

pg. 6

pg. 6

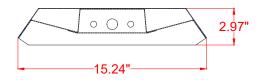
ZLTSxx, ZLTC

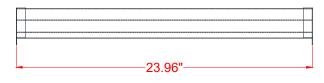
ZLTSxx, ZLTC

ZLTSxx, ZLTC

ZLTC

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

LUMENF©CUS Re-boardABILITY

The PBL V2 HD 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
Z321B <i>xx</i>	High/Low/Off	Daylight Harvesting	PIR	120-347V, 480V	0-10V	L2 L3 L7 8' 20' 40' (select one)	N/A	Х	x	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 (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



- 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.

ZESMC



- 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-PoweredUp 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).



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





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



	A150	1 2 3 4 DM+ DM-	1 2 3 4 080- 086-
	C) Rom		00 077 •
VP1013	WP1025	WP1018	WP1018A

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)

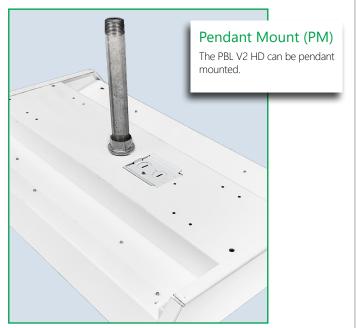


Line Voltage

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

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Hanging Options Available:



Surface Mount

The PBL V2 HD is designed to be easily mounted to any sturdy surface. Simply remove the hex head screws holdingf 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 (QC, QC20)

The QC hanging kit from ALP 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. A mechanically fastened safety cable (SC) is also optional.

Other Options:



Cords are available in single circuit or dual circuit, 6' or 10'. Standard plug is optional, as are other NEMA configurations if specified.

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



Finish In addition to the standard white finish, the PBL V2 HD is also available in matte black (BK) and metallic silver (SL).



Wireguard and shielding

Add an optional wireguard for added stability and protection - ideal for gymnasiums or other areas where the luminaire may be struck. Optional frosted acrylic diffuser lenses minimize glare and improve aesthetics.

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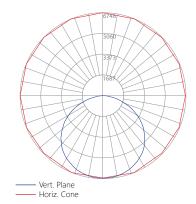
Photometric Data:

PBL	V 2	2W	VH	UV	850
					050

PBL V2 2W VH UV 850		e Data (cd/sq		Average
Test No.: LLIA001687-011	Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
Luminaire Lumens: 19,703 lm Luminaire Watts: 121.3W	45	28781	28449	28443
Efficacy: 162.4 LPW	55	27982	27803	27848
Spacing Criterion (0-180): 1.30	65 75	25900 20874	25920 22819	26496 12580
Spacing Criterion (90-270): 1.30	85	8422	7883	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

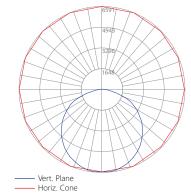
Tested in accordance with IES standards utilizing absolute photometry per LM-79-08

PBL V2 2W VH UV FR 850

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)

Angle In	Average	Average	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



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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							

Coefficients Of Utilization - Zonal Cavity Method Effective Floor Cavity Reflectance 0.20 RC 80 70 50 30

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	94	97	94	91	94	91	88
2	99	91	84	78	96	89	83	77	85	80	75	82	77	74
3	90	80	71	65	88	78	70	64	75	69	63	72	67	62
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53
5	76	63	54	47	74	62	53	47	60	52	47	58	51	46
6	70	57	48	41	68	56	47	41	54	46	41	52	46	40
7	65	51	43	37	63	51	42	36	49	42	36	48	41	36
8	60	47	38	33	59	46	38	32	45	38	32	44	37	32
9	57	43	35	29	55	42	35	29	41	34	29	40	34	29
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26

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

