

# Performance Highbay (IP65)

Project Name \_\_\_\_\_

Catalog Number \_\_\_\_\_

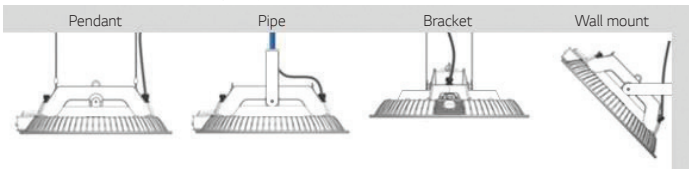
Notes \_\_\_\_\_

## [ Features ]

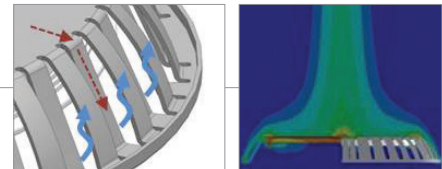
- Easy installation with 9.5 lbs light weight and various mounting options
- Wide selection for control options
- Maximized energy saving by IP65 Multi Sensor (option)
- IP65, suitable for damp location use
- High efficacy up to 140 lm/W
- Long lifetime with outstanding durability
- Fast heat transfer with pure aluminum and dual layer structure
- Tempered glass & frost PET sheet
- NSF certified
- Easy commissioning via VLC (available at VLC models only)
- Adjustable high-end trim from 10% to 100%



## Various mounting options

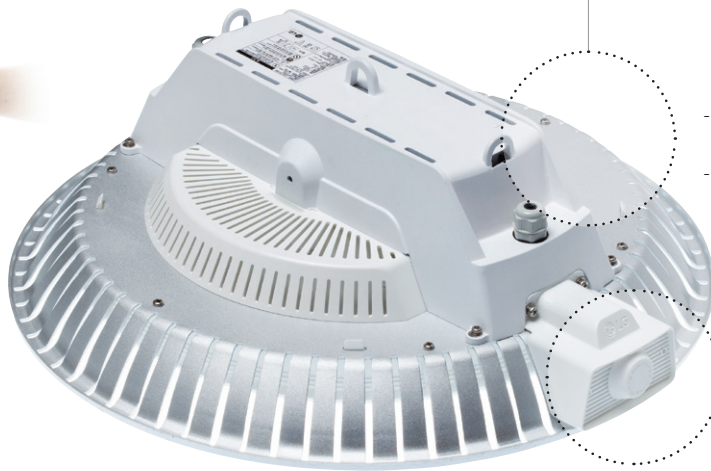


## Highly efficient cooling system

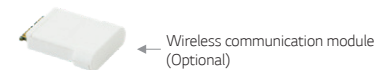


- Sensor's capabilities
  - Standalone Mode
    - Default = Max : 80%, Mid : 80%, Min : 0%
    - Multi Sensor Light Level can be modified to the following :
      - ▷ Press Light Level button x1 = Max : 60%, Mid: 60%, Min: 0%
      - ▷ Press Light Level button x2 = Max : 40%, Mid: 40%, Min: 0%
      - ▷ Press Light Level button x3 = Max : 20%, Mid: 20%, Min: 0%
      - ▷ Press Light Level button x4 = Max : 100%, Mid: 100%, Min: 0%
  - Sensor Connect (commissioned with App):
    - ▷ Full-range dimming using RCA App, RCA wireless switch
  - 3<sup>rd</sup> party ZigBee® Control Software
    - ▷ Full-range dimming

## Light weight



## Various control solutions



← Wireless communication module (Optional)

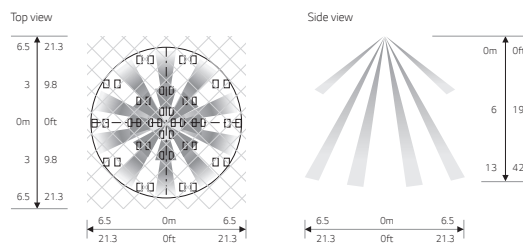
- Simply set-up with RCA SENSOR CONNECT System or plug-and-play
- Occupancy & daylight sensor
- IP65
- Wide sensor detection area
- Use single PIR with photocell
- The default time delay setting is 30 minutes



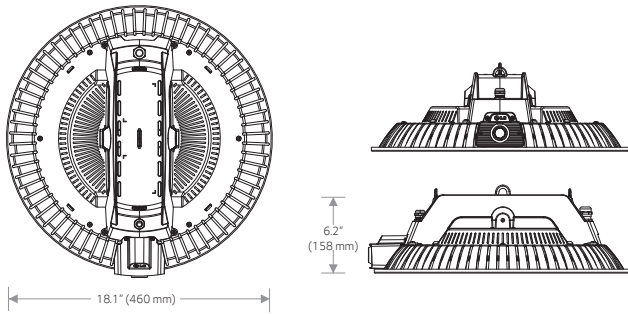
← IP65 Multi Sensor (Optional)

0-10 V

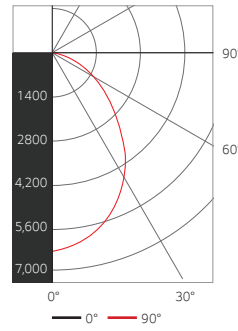
## Wire Guard option



## Dimension



## Photometrics



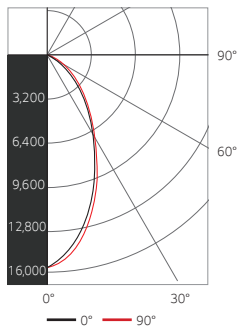
Test : 93W, 90D, 4000K  
Lumen : 12800 lm  
Spacing creation (0-180) : 1.12  
Spacing creation (90-270) : 1.12

### Coefficients of utilization - zonal cavity method

Effective floor cavity reflectance		0.20									
RC		80			50			30			
RW		70	50	30	10	50	30	10	50	30	10
0	119	119	119	119	111	111	111	111	111	106	106
1	111	107	103	100	100	97	95	96	94	92	
2	102	95	89	84	89	85	81	86	82	79	
3	94	84	77	71	80	74	70	77	72	68	
4	87	76	68	62	72	66	61	70	64	60	
5	80	68	60	54	65	59	53	63	57	53	
6	74	62	54	48	60	53	47	58	52	47	
7	69	57	49	43	55	48	43	53	47	42	
8	65	52	44	39	50	43	38	49	43	38	
9	61	48	40	35	46	40	35	45	39	35	
10	57	45	37	32	43	37	32	42	36	32	

### Zonal lumen summary

Zone	Lumens	%Fixture
0-20	2249	17.6
0-30	4609	36
0-40	7166	56
0-60	11191	87.4
0-80	12763	99.7
0-90	12801	100



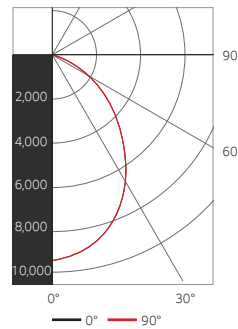
### Coefficients of utilization - zonal cavity method

Effective floor cavity reflectance		0.20									
RC		80			50			30			
RW		70	50	30	10	50	30	10	50	30	10
0	119	119	119	119	111	111	111	111	106	106	106
1	111	108	105	102	101	99	97	98	96	94	
2	104	97	92	87	92	88	85	89	86	83	
3	97	88	82	76	84	79	75	81	77	73	
4	90	80	73	68	77	71	67	75	70	66	
5	84	74	66	61	71	65	60	69	64	59	
6	79	68	60	55	65	59	54	64	58	54	
7	74	63	55	50	61	54	50	59	54	49	
8	70	58	51	46	57	50	46	55	50	46	
9	66	54	47	43	53	47	42	52	46	42	
10	62	51	44	40	50	44	39	49	43	39	

### Zonal lumen summary

Zone	Lumens	%Fixture
0-20	4921	26.3
0-30	9040	48.4
0-40	12553	67.1
0-60	16958	90.7
0-80	18647	99.7
0-90	18697	100

Test : 136W, 65D, 4000K  
Lumen : 18700 lm  
Spacing creation (0-180) : 0.78  
Spacing creation (90-270) : 0.82



Test : 136W, 90D, 4000K  
Lumen : 18700 lm  
Spacing creation (0-180) : 1.10  
Spacing creation (90-270) : 1.10

### Coefficients of utilization - zonal cavity method

Effective floor cavity reflectance		0.20									
RC		80			50			30			
RW		70	50	30	10	50	30	10	50	30	10
0	119	119	119	119	111	111	111	111	106	106	106
1	111	107	103	100	100	98	95	96	94	92	
2	102	95	89	84	90	85	81	86	83	79	
3	94	85	77	72	80	75	70	78	73	69	
4	87	76	68	62	72	66	61	70	65	60	
5	80	69	61	55	66	59	54	64	58	53	
6	75	62	54	48	60	53	48	58	52	47	
7	70	57	49	43	55	48	43	53	47	43	
8	65	52	45	39	50	44	39	49	43	39	
9	61	48	41	36	47	40	35	46	40	35	
10	57	45	37	32	43	37	32	43	36	32	

### Zonal lumen summary

Zone	Lumens	%Fixture
0-20	3320	17.8
0-30	6798	36.3
0-40	10565	56.5
0-60	16432	87.9
0-80	18643	99.7
0-90	18703	100

## Specifications & Ordering Information

Product type	Model code (US order code)	Input power	Beam angle	CCT	Delivered light output	Efficacy	IP	Optical unit	Dimensions	Weight	Life span	Controls
		W	°	K	lm	lm/W	-	-	inch (mm)	lb (kg)	hrs	-
Performance Highway (140lm/W) [VLC]	H0940P901SF (LGE-HB-093-40-12800-90D)	93	90	4000	12800	137	IP65 Damp	Dual (Tempered glass + Frost PET sheet)	Ø18.1x6.2 (Ø460x158)	9.5 (4.3)	70,000 @L80 36,000 @L90	0-10 V (ZigBee ready)
	H0950P901SF (LGE-HB-093-50-13020-90D)			5000	13020	140						
	H1340P651SF (LGE-HB-136-40-18700-65D)	136	65	4000	18700	137						
	H1350P651SF (LGE-HB-136-50-19040-65D)			5000	19040	140						
	H1340P901SF (LGE-HB-136-40-18700-90D)			4000	18700	137						
H1350P901SF (LGE-HB-136-50-19040-90D)	5000	19040	140									

- CRI : 83, Input voltage : 120 ~ 277 Vac, Power factor : ≥0.9, Operating temperature : -22 ~ 122°F (-30 ~ 50°C)
- VLC fixtures must be used with VLC IP65 Multi Sensor or VLC Wireless Communication Module

Product type	Model code (US order code)	Input power	Input voltage	Input frequency	Mounting height	IP	Controls	Operating temp.	Dimensions	Weight
		W	Vdc	MHz	ft (m)	-	-	°F (°C)	inch (mm)	oz (g)
IP65 Multi Sensor [VLC]	9SDA81WVWD1.ALWB000 (LGE-HB-OSZ-IP65-V)	0.3	3.3	2,405 -2,480	Max 42.6 (13)	65, Damp	ZigBee	-4-122 (-20-50)	3.03x3.78x1.46 (77x96x37)	2.0 (56)
Bracket	MAZ64943201.ALWB000 (LGE-HB-BKT)					-			6.4x5.1x1.8 (165x130x45)	10.7 (304)
Wireguard	MAZ64943205.ALWB000 (LGE-HB-WGD)					-			Ø14.9x1.91 (Ø379x48.4)	8.8 (250)

## Compliance

- cULus listed to UL 1598, suitable for damp location use
- Compliance with NSF/ANSI2
- Based on photometric testing consistent with IES LM-79
- Suitable for operation in ambient not exceeding 122 °F
- DesignLights Consortium® (DLC®) Premium qualified products

